SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 14-073138- -00000-0000
Fecha: 2014-04-04 17:19:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 11

Industria y Comercio

SUPERINTENDENCIA

DELEGATURA DE PROPIEDAD INDUSTRIAL

División de Nuevas Creaciones

SOLICITUD
PATENTE DE INVENCIÓN

21. **EXPEDIENTE No.** _____

54. **TÍTULO** DERIVADOS FUNGICIDAS DE 3-(FENIL [6 HETEROCICLILMETOXI) IMINO] METIL)- 1, 2, 4 - OXIADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4.

51. **CLASIFICACIÓN INTERNACIONAL** _____

71. **SOLICITANTE** BAYER INTELLECTUAL P.

DOMICILIO MONHEIM, ALEMANIA.

74. **APODERADO** ALVARO CORREA

22. **BOGOTÁ, D.C.,** 4 DE ABRIL 2014.

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

esivo de radicación

No. 14-073138- -00000-0000

Fecha: 2014-04-04 17:19:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 11

DIRECCIÓN DE NUEVAS CREACIONES
SOLICITUD FASE NACIONAL -PCT

1	TIPO DE SOLICITUD	☒ Patente de invención ☒ Capítulo I	☐ Patente de Modelo de Utilidad ☐ Capitulo II

2 DATOS SOLICITUD INTERNACIONAL PCT (86)

Solicitud Internacional No.	PCT/EP2012/067596	Fecha	10/09/2012
Publicación Internacional No.	WO2013/037717	Fecha	21/03/2013

3 TÍTULO DE LA INVENCIÓN (200 caracteres o espacios máximos)

DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4

4 CLASIFICACIÓN INTERNACIONAL (CIP)

C07D 213/73 (2006.01), A01N 43/82 (2006.01), A01N 43/836 (2006.01), A01P 3/00 (2006.01), C07D 213/75 (2006.01), C07D 231/16 (2006.01), C07D 231/38 (2006.01), C07D 271/07 (2006.01), C07D 277/40 (2006.01), C07D 413/12 (2006.01), C07D 417/12 (2006.01)

5 SOLICITANTE (S) ☐ Esta persona también es inventor. Para datos adicionales utilizar hoja de información complementaria

	APELLIDOS O RAZÓN SOCIAL	NOMBRE	IDENTIFICACIÓN	TIPO
1.	BAYER INTELLECTUAL PROPERTY GmbH			

6 DATOS DEL SOLICITANTE

DIRECCIÓN	Alfred-Nobel-Strasse 10 40789 Monheim	No. TELÉFONO	6341500
CIUDAD	Monheim	CORREO ELECTRÓNICO	Alvaro.correa@bakermckenzie.com
DEPARTAMENTO/ESTADO		NACIONALIDAD O LUGAR DE CONSTITUCIÓN	Alemania
PAÍS DE RESIDENCIA	Alemania		

7 INVENTOR (ES) Para datos adicionales utilizar hoja de información complementaria

	APELLIDOS	NOMBRES	NACIONALIDAD
1.	BRAUN	Christoph	Alemania
2.	SAWADA	Haruko	Japón
3.	LACHAISE	Hélène	Francia
4.	BRUNET	Stéphane	Francia
5.	RINOLFI,	Philippe	Francia

DIRECCIÓN DE CORREO ELECTRÓNICO:

8 DATOS INVENTOR (ES)

	PAÍS RESIDENCIA	DEPARTAMENTO/ESTADO	CIUDAD	DIRECCIÓN
1.	Alemania		Dusseldorf	Benderstrasse 18 40625 Düsseldorf
2.	Alemania		Langenfeld	Verbindungsstrasse 22 40764 Langenfeld
3.	Francia		Lyon	11 chemin de Montpellas F-69009 Lyon
4.	Francia		Saint-André-de-Corcy	44 rue des Dombes F-01390 Saint-Andre-de-Corcy
5.	Francia		Chatillon D'azergues	Résidence le Coteau lieu-dit la Colletière F-69380 Chatillon D'azergues

OTRO(S) SOLICITANTE(S) Y/O (OTRO(S)) INVENTOR(ES)

☒ Los demás solicitantes y/o (demás) inventores se indican en una hoja a continuación.

9 ☐ **REPRESENTANTE LEGAL** ☒ **APODERADO**

APELLIDOS	NOMBRES	IDENTIFICACIÓN
Correa	Alvaro	C.C . 79.143.366 T.P . 20.281

DIRECCIÓN: Av. 82 No. 10-62 Piso 5
No. TELÉFONO: 6341500
CIUDAD: Bogotá
CORREO ELECTRÓNICO: Alvaro.correa@bakermckenzie.com
No. RADICACIÓN DE PROTOCOLO DE PODER GENERAL:
PAÍS: Colombia

10 **DECLARACIONES DE PRIORIDAD** ☒ SI ☐ NO

(33) PAÍS DE ORIGEN	CÓDIGO PAÍS	(31) NÚMERO	(32) FECHA (AAAA/MM/DD)
1. Europa	EP	11356012.2	12/09/2011
2. Estados Unidos de América	US	61/545,306	10/10/2011

11 **DECLARACIÓN SOBRE USO DE RECURSOS GENÉTICOS O BIOLÓGICOS**

Declaro que el objeto de la presente solicitud de patente fue obtenido a partir de recursos genéticos o biológicos de los que cualquiera de los países miembros de la Comunidad Andina es país de origen.

☐ SI ☒ NO

Nota: En caso afirmativo deberá anexar copia del contrato de acceso de recursos genéticos o productos derivados, o certificado o número de registro, expedido por la Autoridad competente.

12 **DECLARACIÓN SOBRE USO DE CONOCIMIENTOS TRADICIONALES**

Declaro que el objeto de la presente solicitud de patente fue obtenido a partir de conocimientos tradicionales de comunidades indígenas, afroamericanas o locales de países miembros de la Comunidad Andina.

☐ SI ☒ NO

Nota: En caso afirmativo deberá anexar la licencia o autorización de uso de conocimiento tradicional, o certificado, o número de registro expedido por la Autoridad competente.

13 **REDUCCIÓN DE TASAS**

Declaro que carezco de medios económicos para presentar la solicitud de patente.

☐ SI ☒ NO

Nota: En caso de ser persona natural y carecer de medios económicos, y por lo tanto, aplique la reducción de tasas a que se refiere la resolución vigente en tarifas, debe firmar la presente solicitud bajo la gravedad de juramento.

Micro, pequeñas y medianas empresas ☐
Universidades públicas o privadas ☐
Entidades sin ánimo de lucro ☐

Debe aportar los documentos que se indican en el numeral 17 de anexos

14 **AUTORIZACIÓN DE NOTIFICACIÓN EN LÍNEA** ☒ SI ☐ NO

Manifiesto que he leído y entendido perfectamente los términos y condiciones de uso de medios electrónicos para las notificaciones en línea a través de Internet de los actos administrativos proferidos por la Superintendencia de Industria y Comercio que deben ser notificados personalmente y, en consecuencia, autorizo el servicio de notificación a través de internet.

15	**COMPROBANTE DE PAGO O PAGO ELECTRÓNICO**	**N°** 14-0027388 **N°** 14-00 1814 **N°** 14-00 1969 **N°** 14-00 1970 **N°** 14-0014483	**Fecha** 12/03/2014 **Fecha** 09/01/2014 **Fecha** 09/01/2014 **Fecha** 09/01/2014 **Fecha** 07/07/2014

16 **FIRMA DEL SOLICITANTE, DEL APODERADO O DEL REPRESENTANTE LEGAL**
Junto a cada firma, indicar el nombre del firmante y su calidad (si tal calidad no es obvia al leer el petitorio)

17	ANEXOS

Documentación Técnica
Solicitud Internacional en castellano

1. ☒ Descripción — N° de folios:
2. ☒ Reivindicaciones — N° Reivindicaciones: 20
3. ☐ Dibujos y/o figuras — N° folios:
4. ☒ Resumen.
5. ☐ Certificado de depósito de material biológico si fuera el caso.
6. ☐ Listado de secuencias de nucleótidos y/o aminoácidos en forma digital si fuera el caso.
7. ☐ Arte final 12 x 12.
8. ☒ Anexo formato digital.

Documentación Jurídica

9. ☒ Poderes, si fuera el caso.
10. ☒ Documento que legalmente pruebe la cesión del inventor al solicitante o a su causante.
11. ☐ Copia del contrato de acceso de recursos genéticos o productos derivados, certificado o número de registro, si fuera el caso.
12. ☐ Copia de la licencia o autorización de Conocimientos Tradicionales, certificado o número de registro, si fuera el caso.
13. **Reducción de tasas**

Micro, pequeñas o medinas empresas

☐ Copia simple de la declaración de renta del año inmediatamente anterior, o en su defecto prueba documental idónea.

☐ Documento de constancia de cumplimiento con lo establecido en la ley 905 de 2004.

Universidades públicas o privadas

☐ Copia acto de reconocimiento institucional emitido por el Ministerio de Educación

Entidades sin ánimo de lucro

☐ Copia de registro vigente en Cámara de comercio.
☐ Hoja de información complementaria.
☐ Otros, especificar

14. ☒ Comprobante de pago de la tasa de presentación de la solicitud.
15. ☐ Comprobante de pago por reivindicación de prioridad.
16. ☒ Comprobante de pago de la tasa por concepto de excedente de palabras en la publicación.
17. ☐ Comprobante de pago por reivindicación adicional a 10.

Industria y Comercio
SUPERINTENDENCIA

HOJA DE INFORMACIÓN COMPLEMENTARIA PCT

1	(12) TIPO DE SOLICITUD	NUMERO DE RADICACIÓN
☐ Patente de invención ☐ Patente de Modelo de Utilidad		FECHA DE PRESENTACIÓN

4 (71) SOLICITANTE (S)

	APELLIDOS O RAZÓN SOCIAL	NOMBRE	IDENTIFICACIÓN	TIPO
2.				

5 DATOS DEL SOLICITANTE

	PAÍS DE RESIDENCIA	DEPARTAMENTO/ESTADO	CIUDAD	DIRECCIÓN
2.				

	TELÉFONO	FAX	E-MAIL	NACIONALIDAD
2.				

6 (72) INVENTOR (ES)

	APELLIDOS	NOMBRE	NACIONALIDAD
6.	DUBOST	Christophe	Francia
7.	COQUERON	Pierre-Yves	Francia
8.	MAECHLING	Simon	Francia
9.	REBSTOCK	Anne-Sophie	Francia
10.	WACHENDORFF-NEUMANN,	Ulrike	Alemania

7 DATOS INVENTOR (ES)

	DIRECCIÓN	CIUDAD	DEPARTAMENTO/ESTADO	PAÍS RESIDENCIA
6.	44 chemin Tracol F-69260 Charbonnieres-les-Bains	Charbonnieres-les-Bains		Francia
7.	Rue Masaryk F-69009 Lyon	Lyon		Francia
8.	103 rue Bossuet F-69006 Lyon	Lyon		Francia
9.	7 avenue de Birmingham F-69004 Lyon	Lyon		Francia
10.	Oberer Markenweg 85 56566 Neuwied	Neuwied		Alemania

9 (30) DECLARACIONES DE PRIORIDAD

	PAÍS DE ORIGEN	CÓDIGO PAÍS	NÚMERO	FECHA (AAAA/MM/DD)
4.				

5

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
NIT : 800.176.089-2
- / -

2014/044

Industria y Comercio
SUPERINTENDENCIA

RECIBO DE CAJA

No. 14 - 0027388

Bogotá D.C., Marzo 12 de 2014 - 08:20:42

RECIBIDO DE : BAKER NI 900.532.339

*** Soporte del Pago ***

TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR PAGO
CONSIGNACION	BANCO DE BOGOTA	062754387	560801194	11/03/2014	148.295.000.00

*** Conceptos Pagados ***

CANT.	RENTISTICO	CONCEPTO	Vr.UNDITARIO	Vr.CONCEPTO
1	50005-01-01 SOLICITUDES	1 TRAMITES DE SOL. DE PATENTE DE INVENCION	515.000.00	515.000.00
				$515.000.00

SON: **QUINIENTOSQUINCE MIL PESOS MONEDA CORRIENTE***

Responsable: _____
-********-

Recibo de Caja Aplicado al Expediente No. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 14-073138- -00000-0000
Fecha: 2014-04-04 17:19:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 11

6

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
NIT : 800.176.089-2
- / -

Industria y Comercio
SUPERINTENDENCIA

RECIBO DE CAJA

No. 14 - 0036449

Bogotá D.C., Abril 03 de 2014 - 17:49:47

RECIBIDO DE : BAKER NI 900.532.339 RE

*** Soporte del Pago ***

TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR PAGO
RECIBO DE CA	999999999	1814	09/01/2014		180.000.00
RECIBO DE CA	999999999	1969	09/01/2014		1.000.00
RECIBO DE CA	999999999	1970	09/01/2014		1.000.00
RECIBO DE CA	999999999	14483	07/02/2014		128.000.00

*** Conceptos Pagados ***

CANT.	RENTISTICO	CONCEPTO	Vr.UNDITARIO	Vr.CONCEPTO
10	50005-01-01 SOLICITUDES	1607 REIVINDICACION PATENTE UNITARIA ADICIONAL A LAS 10 INIC	31.000.00	310.000.00
				$310.000.00

==========

SON: **TRESCIENTOSDIEZ MIL PESOS MONEDA CORRIENTE***

Responsable: _____
-******-

Recibo de Caja Aplicado al Expediente No. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 14-073138- -00000-0000
Fecha: 2014-04-04 17:19:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 11

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES
EXTRACTO PARA PUBLICACIÓN
SOLICITUD DE PATENTE DE INVENCIÓN PCT

(21) N° de solicitud:

22) Fecha de solicitud:

(30) Prioridad

(31) *No.*	32) *Fecha*	(33) *País*
11356012.2	12/09/2011	EP
61/545,306	10/10/2011	US

(51) Int Cl:

(71)Solicitante(s) **BAYER INTELLECTUAL PROPERTY GmbH**

(72) Inventor(es) **BRAUN, Christoph;**
SAWADA, Haruko;
LACHAISE, Hélène;
BRUNET, Stéphane;
RINOLFI, Philippe;
DUBOST, Christophe;
COQUERON, Pierre-Yves;
MAECHLING, Simon;
REBSTOCK, Anne-Sophie;
WACHENDORFF-NEUMANN, Ulrike.

(74) Apoderado: **ALVARO CORREA ORDOÑEZ**

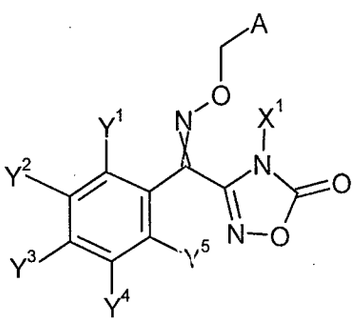
(85) Fecha limite inicio fase nacional: ***12/04/2014***

(86) Datos relativos a la presentación de la solicitud PCT
Fecha de presentación de la solicitud: ***10/09/2012***
No. de solicitud **PCT/EP2012/067596**

(87) Publicación internacional
Fecha: **21/03/2013**
N° publicación: ***WO2013/037717***

(54) Titulo: **DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4**

Resumen:
La presente invención proporciona derivados de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4 de fórmula (I)



(I)

en donde A representa un grupo piridilo o tiazol y X1, Y1 a Y5 representan independientemente diferentes sustituyentes.

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES
TARJETA ARCHIVO TEMATICO

PATENTE DE INVENCION ____ PCT _X_ MODELO DE UTILIDAD ____ DISEÑO INDUSTRIAL ___

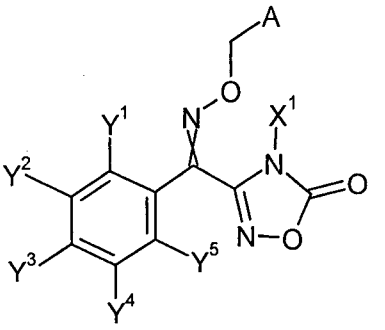
(21) N° de solicitud: (22) Fecha de solicitud:
(51) Clasificación Internacional :

(71)Solicitante(s)
BAYER INTELLECTUAL PROPERTY GmbH

(72) Inventor(es)
BRAUN, Christoph; SAWADA, Haruko; LACHAISE, Hélène; BRUNET, Stéphane; RINOLFI, Philippe; DUBOST, Christophe; COQUERON, Pierre-Yves; MAECHLING, Simon; REBSTOCK, Anne-Sophie; WACHENDORFF-NEUMANN, Ulrike.

(74) Apoderado: ALVARO CORREA ORDOÑEZ

(30) Prioridad	(31) *No. Prioridad*	32) *Fecha*	(33) *País*
	11356012.2	**12/09/2011**	**EP**
	61/545,306	**10/10/2011**	**US**



(85) Fecha límite inicio fase nacional: ***12/04/2014***
(86) Datos relativos a la presentación de la solic. PCT
Fecha de presentación de la solicitud: ***10/09/2012***
No. de solicitud **PCT/EP2012/067596**

(87) Publicación internacional:
Fecha: **21/03/2013**
No. Publicación : ***WO2013/037717***

(54) Titulo:
DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4

(57) Resumen:

La presente invención proporciona derivados de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4 de fórmula (I) en donde A representa un grupo piridilo o tiazol y X1, Y1 a Y5 representan independientemente diferentes sustituyentes.

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES

TARJETA ARCHIVO PROPIETARIOS

PATENTE DE INVENCION ____ PCT X MODELO DE UTILIDAD ____ DISEÑO INDUSTRIAL ___

(21) N° de solicitud: (22) Fecha de solicitud:
(51) Clasificación Internacional :

(71)Solicitante(s)
BAYER INTELLECTUAL PROPERTY GmbH

(72) Inventor(es)
BRAUN, Christoph; SAWADA, Haruko; LACHAISE, Hélène; BRUNET, Stéphane; RINOLFI, Philippe; DUBOST, Christophe; COQUERON, Pierre-Yves; MAECHLING, Simon; REBSTOCK, Anne-Sophie; WACHENDORFF-NEUMANN, Ulrike.

(74) Apoderado: ALVARO CORREA ORDOÑEZ

(30) Prioridad	(31) *No. Prioridad*	32) *Fecha*	(33) *País*
	11356012.2	**12/09/2011**	**EP**
	61/545,306	**10/10/2011**	**US**

(85) Fecha inicio fase nacional: ***12/04/2014***
(86) Datos relativos a la presentación de la solicitud PCT
Fecha de presentación de la solicitud: ***10/09/2012***
No. de solicitud **PCT/EP2012/067596**

(87) Publicación internacional
Fecha: **21/03/2013**
N° publicación: ***WO2013/037717***

(54) Titulo:
DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4

10

Industria y Comercio
SUPERINTENDENCIA

PLANILLA DE RADICACIÓN - DIGITALIZACIÓN DIARIA
RELACIÓN DE ANEXOS

Dependencia: 2020	Fecha: 14 / 04 / 04 (AAAA / MM / DD)	Recorrido: 4
Tipo de Radicación: Entrada: X Salida: ☐ Traslado: ☐ Convenio: ☐		
Radicador:		Planilla:

ID	No. Radicación	Consecutivo	Item
1	14-73138	0	7
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			

Item	Unidad de Conservación
1	Bolsa
2	Caja
3	Libro
4	Sobre
5	Tomo
6	**Otro**
Item	***Soporte Documental***
X	CD
8	Disquete
9	DVD
10	Folleto
11	Foto
12	Periódico
13	Plano
14	Publicación Periódica
15	USB
16	**Otro**

Observaciones:
EL 1D ANEXO CONTIENE UN TOTAL DE 6 ARCHIVOS:
6 EN FORMATO PDF, LOS CUALES FUERON PROCESADOS
EL 1D ANEXO SE ENCUENTRA EN EL FOLIO 10

11

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 14-073138- -00000-0000
Fecha: 2014-04-04 17:19:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 11

CIONES

PATENTE DE INVENCIÓN ☐ **MODELO DE UTILIDAD** ☐ **Art 33 Decisión 486/00**

- ☐ Indicación que se solicita una patente.
- ☐ Datos de identificación del solicitante o de la persona que presenta la solicitud
- ☐ Descripción de la invención
- ☐ Dibujos de ser estos pertinentes
- ☐ Comprobante de pago de las tasas establecidas (De ser el caso formato de descuento)

Completa ☐ Incompleta ☐

PATENTE DE INVENCIÓN PCT ■ **MODELO DE UTILIDAD PCT** ☐ **Art.33 Decisión 486/00, Circular Única**

- ■ Indicación que se solicita una PCT
- ■ Copia de la solicitud en español, tal como fue presentada inicialmente (capítulo descriptivo, reivindicatorio, resumen)
- ☐ Dibujos de ser estos pertinentes
- ■ Comprobante de pago de las tasas establecidas (de ser el caso formato de descuento)

Completa ■ Incompleta ☐

DISEÑO INDUSTRIAL ☐ **(Art. 119 Decisión 486/00)**

- ☐ Indicación que se solicita Diseño industrial
- ☐ Datos de identificación del solicitante o de la persona que presenta la solicitud
- ☐ Representación gráfica y fotográfica del Diseño industrial o muestra del material que incorpora el diseño
- ☐ Comprobante de pago de las tasas establecidas

Completa ☐ Incompleta ☐

ESQUEMA DE TRAZADO ☐ **(Art. 92 Decisión 486/00)**

- ☐ Indicación que se solicita un esquema de trazado
- ☐ Datos de identificación del solicitante o de la persona que presenta la solicitud
- ☐ Representación gráfica de un esquema de trazado
- ☐ Comprobante de pago de las tasas establecidas

Completa ☐ Incompleta ☐

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 March 2013 (21.03.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/037717 A1

(51) International Patent Classification:
C07D 213/73 (2006.01) *C07D 417/12* (2006.01)
C07D 213/75 (2006.01) *C07D 271/07* (2006.01)
C07D 231/16 (2006.01) *A01N 43/836* (2006.01)
C07D 231/38 (2006.01) *A01P 3/00* (2006.01)
C07D 277/40 (2006.01) *A01N 43/82* (2006.01)
C07D 413/12 (2006.01)

(21) International Application Number:
PCT/EP2012/067596

(22) International Filing Date:
10 September 2012 (10.09.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
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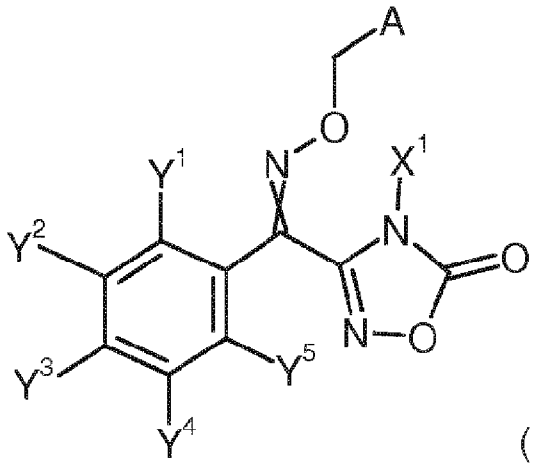
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(54) Title: FUNGICIDAL 4-SUBSTITUTED-3-{PHENYL[(HETEROCYCLYLMETHOXY)IMINO]METHYL}-1,2,4-OXADIZOL-5(4H)-ONE DERIVATIVES



(I)

(57) Abstract: The present invention provides fungicidal 4-substituted-3-{phenyl[(heterocyclylmethoxy)imino]methyl}-1,2,4-oxadiazol-5(4H)-one derivatives of formula (I) wherein A represents a pyridyl or thiazole group and X1, Y1 to Y5 represent independently different substituents.

WO 2013/037717 A1

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

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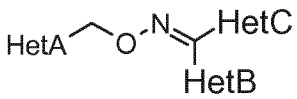
— *with international search report (Art. 21(3))*

FUNGICIDAL 4-SUBSTITUTED-3-{PHENYL[(HETEROCYCLYLMETHOXY)IMINO]METHYL}-1,2,4-OXADIAZOL-5(4H)-ONE DERIVATIVES

DESCRIPTION

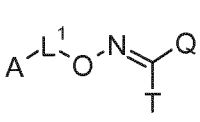
The present invention relates to 4-substituted-3-{phenyl[(heterocyclylmethoxy)imino]methyl}-1,2,4-oxadiazol-5(4H)-one derivatives, their process of preparation, their use as fungicide active agents, particularly in the form of fungicide compositions, and methods for the control of phytopathogenic fungi, notably of plants, using these compounds or compositions.

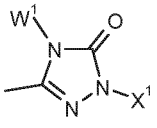
In European patent application n°1184382, there are disclosed certain heterocyclyloxime derivatives of the following chemical structure:



that are excluded from the scope of the present invention.

In world patent application WO2009/130193, there are disclosed certain hydroximoyl-heterocycles derivatives of the following chemical structure :

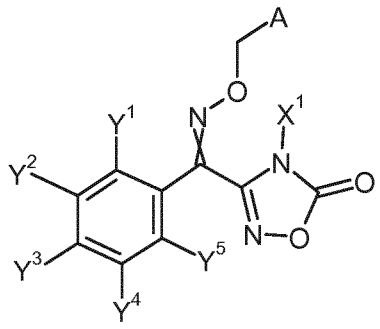


with T = 

, Q is a phenyl ring , L1 a methylene linker and A an heterocycle.

It is always of high-interest in agriculture to use novel pesticide compounds in order to avoid or to control the development of resistant strains to the active ingredients. It is also of high-interest to use novel compounds being more active than those already known, with the aim of decreasing the amounts of active compound to be used, whilst at the same time maintaining effectiveness at least equivalent to the already known compounds. We have now found a new family of compounds which possess the above mentioned effects or advantages.

Accordingly, the present invention provides 4-substituted-3-{phenyl[(heterocyclylmethoxy)imino] methyl}-1,2,4-oxadiazol-5(4H)-one derivatives of formula (I)

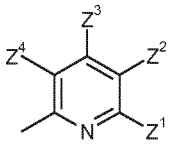


(I)

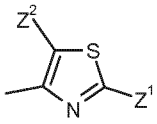
wherein

- X^1 represents a hydrogen atom, a formyl group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkylcarbonyl ;

- A is selected in the list consisting of A^1 and A^2 :



A^1



A^2

wherein

- Z^1 represents a hydrogen atom, a halogen atom, a nitro group, an amino group, an hydroxyamino group, a cyano group, a carboxylic acid group, , substituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylaminosubstituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino, or a group of formula $QC(=U)NR^a$

- wherein :

- Q represents a hydrogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_3-C_8-cycloalkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_2-C_8-alkynyloxy, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted C_2-C_8-alkenylsulfenyl, substituted or non-substituted C_2-C_8-alkynylsulfenyl, substituted or non-substituted arylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyl, substituted or non-substituted C_5-C_{12}-benzofused carbocyclyl, substituted or non-substituted C_5-C_{12}-benzofused heterocyclyl, substituted or non-

substituted cycloalkoxy; substituted or non-substituted cycloalkenyloxy, substituted or non-substituted aryloxy; substituted or non-substituted heterocyclyloxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkoxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyloxy, substituted or non-substituted C_5-C_{12}-benzofused carbocyclyloxy, substituted or non-substituted C_5-C_{12}-benzofused heterocyclyloxy;

- U represents a oxygen atom or a sulfur atom;

- R^a represents a hydrogen atom, a hydroxy group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_3-C_{10}-cycloalkenyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyl, substituted or non-substituted aryl, or substituted or non-substituted heterocyclyl, substituted or non-substituted C_1-C_8-alkylcarbonyl, substituted or non-substituted aryloxycarbonyl, substituted or non-substituted C_1-C_8-alkoxycarbonyl ;

- Z^2, Z^3 and Z^4 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy;

- Y^1 to Y^5 independently represent a hydrogen atom, a halogen atom, a nitro group, a a cyano group, a substituted or non-substituted carbaldehyde O-(C_1-C_8-alkyl)oxime, a pentafluoro-λ^6-sulfenyl group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-halogenoalkyl having 1 to 5 halogen atoms, a C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_1-C_8-halogenoalkoxy having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_3-C_8-alkynyloxy, substituted or non-substituted N-(C_1-C_8-alkoxy)-C_1-C_8-alkanimidoyl, substituted or non-substituted N-(C_1-C_8-alkoxy)-C_1-C_8-halogenoalkanimidoyl having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkoxycarbonyl, substituted or non-substituted C_1-C_8-alkylcarbonyloxy, substituted or non-substituted C_1-C_8-alkylsulfinyl, substituted or non-substituted C_1-C_8-alkylsulfonyl, substituted or non-substituted phenoxy, substituted or non-substituted phenylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted tri(C_1-C_8-alkyl)-silyloxy, substituted or non-substituted tri(C_1-C_8-alkyl)-silyl, substituted or non-substituted heterocyclyl, substituted or non-substituted heterocyclyloxy ;

as well as salts, N-oxides, metallic complexes and metalloidic complexes thereof or (E) and (Z) isomers and mixtures thereof.

Any of the compounds according to the invention can exist as one or more stereoisomers depending on the number of stereogenic units (as defined by the IUPAC rules) in the compound. The invention

thus relates equally to all the stereoisomers, and to the mixtures of all the possible stereoisomers, in all proportions. The stereoisomers can be separated according to the methods which are known *per se* by the man ordinary skilled in the art.

Notably, the stereostructure of the oxime moiety present in the 4-substituted-3-{phenyl[(heterocyclylmethoxy)imino]methyl}-1,2,4-oxadiazol-5(4H)-one derivative of formula (I) includes (E) or (Z) isomer, and these stereoisomers form part of the present invention.

According to the invention, the following generic terms are generally used with the following meanings:

- halogen means fluorine, chlorine, bromine or iodine ;
- heteroatom can be nitrogen, oxygen or sulfur ;
- unless indicated otherwise, a group or a substituent that is substituted according to the invention can be substituted by one or more of the following groups or atoms: a halogen atom, a nitro group, a hydroxy group, a cyano group, an amino group, a sulfenyl group, a pentafluoro- ^{6}-sulfenyl group, a formyl group, a carbaldehyde O-(C_1-C_8-alkyl)oxime, a formyloxy group, a formylamino group, a formylamino group, a (hydroxyimino)-C_1-C_6-alkyl group, a C_1-C_8-alkyl, a tri(C_1-C_8-alkyl)silyl, C_3-C_8-cycloalkyl, C_3-C_8-cycloalkenyl, a C_1-C_8-halogenoalkyl having 1 to 5 halogen atoms, a C_1-C_8-halogenocycloalkyl having 1 to 5 halogen atoms, a C_2-C_8-alkenyl, a C_2-C_8-alkynyl, a C_2-C_8-alkenyloxy, a C_2-C_8-alkynyloxy, a C_1-C_8-alkylamino, a di-C_1-C_8-alkylamino, a C_1-C_8-alkoxy, a C_1-C_8-halogenoalkoxy having 1 to 5 halogen atoms, a C_1-C_8-alkylsulfenyl, a C_1-C_8-halogenoalkylsulfenyl having 1 to 5 halogen atoms, a C_2-C_8-halogenoalkenyloxy having 1 to 5 halogen atoms, a C_3-C_8-halogenoalkynyloxy having 1 to 5 halogen atoms, a C_1-C_8-alkylcarbonyl, a C_1-C_8-halogenoalkylcarbonyl having 1 to 5 halogen atoms, a C_1-C_8-alkylcarbamoyl, a di-C_1-C_8-alkylcarbamoyl, a N-C_1-C_8-alkyloxycarbamoyl, a C_1-C_8-alkoxycarbamoyl, a N-C_1-C_8-alkyl-C_1-C_8-alkoxycarbamoyl, a C_1-C_8-alkoxycarbonyl, a C_1-C_8-halogenoalkoxycarbonyl having 1 to 5 halogen atoms, a C_1-C_8-alkylcarbonyloxy, a C_1-C_8-halogenoalkylcarbonyloxy having 1 to 5 halogen atoms, a C_1-C_8-alkylcarbonylamino, a C_1-C_8-halogenoalkylcarbonylamino having 1 to 5 halogen atoms, C_1-C_8-alkoxycarbonylamino, C_1-C_8-halogenoalkoxycarbonylamino having 1 to 5 halogen atoms, a C_1-C_8-alkylaminocarbonyloxy, a di-C_1-C_8-alkylaminocarbonyloxy, a C_1-C_8-alkyloxycarbonyloxy, a (C_1-C_6-alkoxyimino)-C_1-C_6-alkyl, a (C_1-C_6-alkenyloxyimino)-C_1-C_6-alkyl, a (C_1-C_6-alkynyloxyimino)-C_1-C_6-alkyl, (benzyloxyimino)-C_1-C_6-alkyl, C_1-C_8-alkoxyalkyl, C_1-C_8-halogenoalkoxyalkyl having 1 to 5 halogen atoms, benzyloxy, benzylsulfenyl, benzylamino, phenoxy, phenylsulfenyl, or phenylamino, an aryl group, an heterocyclyl group ; or
- a group or a substituent that is substituted according to the invention can be substituted in a way that substituting groups form together a substituted or non-substituted, saturated or partially saturated 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, or 11-membered cycle, which can be a carbocycle or a heterocycle comprising up to 4 heteroatoms selected from the list consisting of N, O, and S
- the term “aryl” means phenyl or naphthyl;

- the term "heterocyclyl" means fused or non-fused, saturated or unsaturated, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 11- or 12-membered ring comprising up to 4 heteroatoms selected in the list consisting of N, O, S.

Preferred compounds of formula (I) according to the invention are those wherein X^1 represents a hydrogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl or a substituted or non-substituted C_2-C_8-alkenyl.

More preferred compounds of formula (I) according to the invention are those wherein X^1 represents a hydrogen atom, a methyl group, an ethyl group, a n-propyl group, an isopropyl group or a cyclopropyl group.

Even more preferred compounds of formula (I) according to the invention are those wherein X^1 represents a hydrogen atom or a methyl group.

Other preferred compounds of formula (I) according to the invention are those wherein A represents A^1.

Other preferred compounds of formula (I) according to the invention are those wherein Z^1 represents a hydrogen atom, a halogen atom, a nitro group, an amino group, an hydroxyamino group, substituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino, or a group of formula $QC(=U)NR^a$.

More preferred compounds of formula (I) according to the invention are those wherein Z^1 represents a hydrogen atom, a halogen atom, a nitro group, an amino group, substituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, or a group of formula $QC(=U)NR^a$.

Even more preferred compounds of formula (I) according to the invention are those wherein Z^1 represents an amino group, or a group of formula $QC(=U)NR^a$.

When Z^1 represents a group of formula $QC(=U)NR^a$, other preferred compounds of formula (I) according to the invention are those wherein U represents an oxygen atom.

When Z^1 represents a group of formula $QC(=U)NR^a$, other preferred compounds of formula (I) according to the invention are those wherein R^a represents a hydrogen atom, a hydroxy group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-alkoxy.

When Z^1 represents a group of formula $QC(=U)NR^a$, more preferred compounds of formula (I) according to the invention are those wherein R^a represents a hydrogen atom.

When Z^1 represents a group of formula $QC(=U)NR^a$, other preferred compounds of formula (I) according to the invention are those wherein Q represents a substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_2-C_8-alkynyloxy, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl, substituted or non-substituted C_3-C_8-cycloalkoxy.

When Z^1 represents a group of formula $QC(=U)NR^a$, more preferred compounds of formula (I) according to the invention are those wherein Q represents a substituted or non-substituted C_4-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_4-C_8-alkynyl, substituted or non-substituted C_4-C_8-alkoxy, substituted or non-substituted C_4-C_8-alkenyloxy, substituted or non-substituted C_4-C_8-alkynyloxy, substituted or non-substituted C_3-C_8-alkylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl.

When Z^1 represents a group of formula $QC(=U)NR^a$, even more preferred compounds of formula (I) according to the invention are those wherein Q represents a substituted or non-substituted C_4-C_8-alkyl, substituted or non-substituted C_4-C_8-alkynyl, substituted or non-substituted C_4-C_8-alkoxy, substituted or non-substituted C_4-C_8-alkenyloxy, substituted or non-substituted C_4-C_8-alkynyloxy, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl.

When Z^1 represents a group of formula $QC(=U)NR^a$,and when Q represents a substituted or non-substituted C_4-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_4-C_8-alkynyl, substituted or non-substituted C_4-C_8-alkoxy, substituted or non-substituted C_4-C_8-alkenyloxy, substituted or non-substituted C_4-C_8-alkynyloxy, substituted or non-substituted C_3-C_8-alkylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl, other preferred compounds of formula (I) according to the invention are those wherein substituents are chosen in the list of a halogen atom, a cyano group, a (hydroxyimino)-C_1-C_6-alkyl group, a C_1-C_8-alkyl, C_3-C_8-cycloalkyl, a C_2-C_8-alkenyl, a C_2-C_8-alkynyl, a C_2-C_8-alkenyloxy, a C_2-C_8-alkynyloxy, a C_1-C_8-alkoxy, a C_1-C_8-alkylsulfenyl, a (C_1-C_6-alkoxyimino)-C_1-C_6-alkyl, a (C_1-C_6-alkenyloxyimino)-C_1-C_6-alkyl, a (C_1-C_6-alkynyloxyimino)-C_1-C_6-alkyl, (benzyloxyimino)-C_1-C_6-alkyl, C_1-C_8-alkoxyalkyl, benzyloxy, benzylsulfenyl, phenoxy, phenylsulfenyl, an aryl group or an heterocyclyl group, or wherein substituents form together a substituted or non-substituted, saturated or partially saturated 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, or 11-membered cycle, which can be a carbocycle or a heterocycle comprising up to 4 heteroatoms selected from the list consisting of N, O, and S.

When Z^1 represents a group of formula $QC(=U)NR^a$,and when Q represents a substituted or non-substituted C_4-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_4-C_8-alkynyl, substituted or non-substituted C_4-C_8-alkoxy, substituted or non-substituted C_4-C_8-alkenyloxy, substituted or non-substituted C_4-C_8-alkynyloxy, substituted or non-substituted C_3-C_8-alkylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl., more preferred compounds of formula (I) according to the invention are those wherein substituents are chosen in the list of a halogen atom, a cyano group, a (hydroxyimino)-C_1-C_6-alkyl group, a C_1-C_8-alkyl,

C_3-C_8-cycloalkyl, a C_2-C_8-alkenyl, a C_2-C_8-alkynyl, a C_2-C_8-alkenyloxy, a C_2-C_8-alkynyloxy, a C_1-C_8-alkoxy, a C_1-C_8-alkylsulfenyl, (benzyloxyimino)-C_1-C_6-alkyl, C_1-C_8-alkoxyalkyl, benzyloxy, phenoxy, an aryl group or an heterocyclyl group or wherein substituents form together a saturated or partially saturated 3-, 4-, 5-, 6-membered cycle, which can be a carbocycle or a heterocycle comprising up to 4 heteroatoms selected from the list consisting of N, O, and S.

Other preferred compounds of formula (I) according to the invention are those wherein Z^2, Z^3 and Z^4 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl. More preferred compounds of formula (I) according to the invention are those wherein Z^2, Z^3 and Z^4 independently represent a hydrogen atom.

Other preferred compounds of formula (I) according to the invention are those wherein Y^1 to Y^5 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-halogenoalkyl having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkoxy.
More preferred compounds of formula (I) according to the invention are those wherein Y^1 to Y^5 independently represent a hydrogen atom, a halogen atom, methyl, ethyl, isopropyl, isobutyl, tertbutyl, trifluoromethyl, difluoromethyl, allyl, ethynyl, propargyl, cyclopropyl, methoxy or trifluoromethoxy. Even more preferred compounds of formula (I) according to the invention are those wherein Y^1 to Y^5 independently represent a hydrogen atom or fluorine atom.

The above mentioned preferences with regard to the substituents of the compounds of formula (I) according to the invention can be combined in various manners. These combinations of preferred features thus provide sub-classes of compounds according to the invention. Examples of such sub-classes of preferred compounds according to the invention can combine:

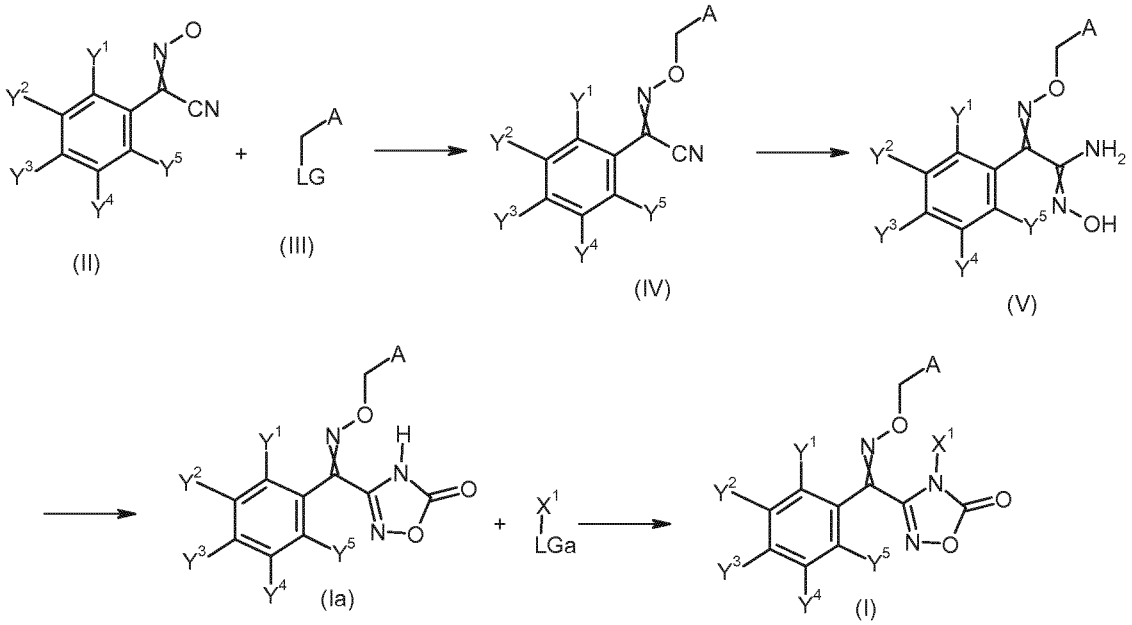
- preferred features of A with preferred features of one or more of X^1, Y^1 to Y^5 and Z^1 to Z^4;
- preferred features of X^1 with preferred features of one or more of A, Y^1 to Y^5 and Z^1 to Z^4;
- preferred features of Y^1 with preferred features of one or more of A, X^1 , Y^2 to Y^5 and Z^1 to Z^4;
- preferred features of Y^2 with preferred features of one or more of A, X^1, Y^1, Y^3 to Y^5 and Z^1 to Z^4;
- preferred features of Y^3 with preferred features of one or more of A, X^1, Y^1,Y^2 ,Y^4 , Y^5 and Z^1 to Z^4;
- preferred features of Y^4 with preferred features of one or more of A, X^1 , Y^1 to Y^3 , Y^5 and Z^1 to Z^4;
- preferred features of Y^5 with preferred features of one or more of A, X^1 , Y^1 to Y^4 and Z^1 to Z^4;
- preferred features of Z^1 with preferred features of one or more of X^1, Y^1 to Y^5, A and Z^2 to Z^4;
- preferred features of Z^2 with preferred features of one or more of X^1, Y^1 to Y^5, A, Z^1 and Z^3 to Z^4;

- preferred features of Z^3 with preferred features of one or more of X^1, Y^1 to Y^5, A, Z^4 and Z^1 to Z^2;
- preferred features of Z^4 with preferred features of one or more of X^1, Y^1 to Y^5, A and Z^1 to Z^3;

In these combinations of preferred features of the substituents of the compounds according to the invention, the said preferred features can also be selected among the more preferred features of each of A, X^1, Y^1 to Y^5 and Z^1 so as to form most preferred subclasses of compounds according to the invention.

The present invention also relates to a process for the preparation of compounds of formula (I), Thus, according to a further aspect of the present invention, there is a provided a process P1 for the preparation of compounds of formula (I) from compounds of formula (II), by a reaction of nucleophilic substitution on compounds of formula (III) to yield to a compound of formula (IV), according to known methods, optionally in the presence of a base, according to known methods; followed by the addition of hydroxylamine or an hydroxylamine salt on compounds of formula (IV) to yield to a compound of formula (V), optionally in the presence of a base, optionally in the presence of an acid, according to known methods; followed by a reaction of cyclization of compounds of formula (V) to yield to a compound of formula (Ia), with a phosgene equivalent, optionally in the presence of a base, according to known methods; followed by a reaction of alkylation of compounds of formula (Ia) to yield to a compound of formula (I), with an alkylating agent of formula X^1-LGa, optionally in the presence of a base, according to known methods.

In such a case there is provided a process P1 according to the invention and such a process P1 can be illustrated by the following reaction scheme:



Process P1

wherein Y^1, Y^2, Y^3, Y^4, Y^5, A and X^1 are as herein-defined and LG and LGa independently represent a leaving group. Suitable leaving groups can be selected in the list consisting of a halogen atom or other customary nucleofugal groups such as triflate, mesylate, or tosylate.

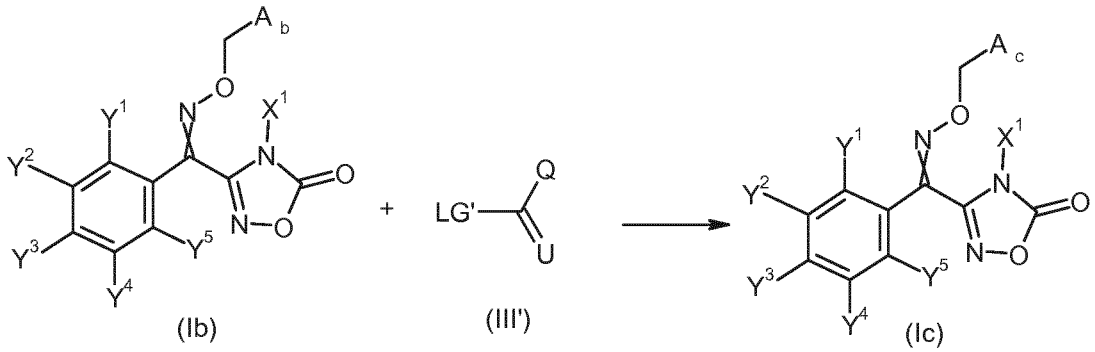
Suitable acids for the transformation of compounds of formula (IV) into compounds of formula (V) can be chosen as being a mineral acid such as hydrogen chloride and sulfuric acid, and an organic acid such as formic acid and acetic acid.

Suitable phosgene equivalent for the conversion of compounds of formula (V) into a compound of formula (I) can be chosen as being phosgene, diphosgene, triphosgene, carbonyl di-imidazole, a chlorformate derivative, such as ethyl chloroformate and 4-nitrophenoxy-chloroformate.

Compounds of formula (II) and (III) are commercially available or are easily accessible to the skilled worker in the art. Examples of preparation can be found in world patent application WO2009/130193. Compounds of formula formula X^1-LGa are commercially available.

According to the invention, there is provided a further process P2 for the preparation of compounds of formula (Ic) from compounds of formula (Ib).

For the compounds of formula (Ib) according to the invention if Z^1 represents -NHR^a, process P1 according to the invention can be completed by a further step comprising the additional modification of this group, notably by a reaction of acylation, alkoxycarbonylation, alkylaminocarbonylation, (thio)acylation, alkoxy(thio)carbonylation, alkylsuphenyl(thio)carbonylation or alkylamino(thio)carbonylation to yield to a compound of formula (Ic), according to known methods. In such a case there is provided a process P2 according to the invention and such a process P2 can be illustrated by the following reaction scheme :



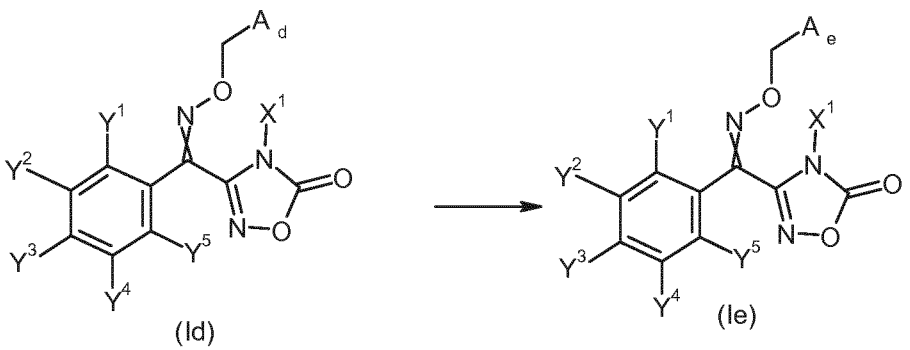
Process P2

Wherein

Y^1, Y^2, Y^3, Y^4, Y^5, X^1 , U, R^a and Q are as herein-defined and A_b represents A wherein Z^1 represents -NHR^a; A_c represents A wherein Z^1 represents a group of formula QC(=U)NR^a and LG' represents a leaving group.

Suitable leaving groups can be selected in the list consisting of a halogen atom or other customary nucleofugal groups such as alcoolate, hydroxide or cyanide.

According to the invention, there is provided a further process P3 for the preparation of compounds of formula (Ie) from compounds of formula (Id), by a reaction of nucleophilic substitution to yield to a compound of formula (Ie), according to known methods, optionally in the presence of a catalyst notably a transition metal catalyst, such as palladium salts or complexes for example palladium (II) chloride, palladium (II) acetate, tetrakis-(triphenylphosphine) palladium(0), bis-(triphenylphosphine) palladium dichloride (II), tris(dibenzylideneacetone) dipalladium(0), bis(dibenzylideneacetone) palladium(0) or 1,1'-bis(diphenylphosphino)ferrocene-palladium (II) chloride. As an alternative the palladium complex is directly generated in the reaction mixture by separately adding to the reaction mixture a palladium salt and a complex ligand such as a phosphine, for example triethylphosphine, tri-tert-butylphosphine, tricyclohexylphosphine, 2-(dicyclohexylphosphine)biphenyl, 2-(di-tert-butylphosphin)biphenyl, 2-(dicyclohexylphosphine)-2'-(N,N-dimethylamino)-biphenyl, triphenylphosphine, tris-(o-tolyl)phosphine, sodium 3-(diphenylphosphino)benzolsulfonate, tris-2-(methoxyphenyl)phosphine, 2,2'-bis-(diphenylphosphine)-1,1'-binaphthyl, 1,4-bis-(diphenylphosphine)butane, 1,2-bis-(diphenylphosphine)ethane, 1,4-bis-(dicyclohexylphosphine)butane, 1,2-bis-(dicyclohexylphosphine)ethane, 2-(dicyclohexylphosphine)-2'-(N,N-dimethylamino)-biphenyl, bis(diphenylphosphino)ferrocene, tris-(2,4-tert-butylphenyl)-phosphite, (R)-(-)-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethyldi-tert-butylphosphine, (S)-(+)-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethyldicyclohexylphosphine, (R)-(-)-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethyldicyclohexylphosphine, (S)-(+)-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethyldi-t-butylphosphine, optionally in the presence of a base such as an inorganic or an organic base; preferably an alkaline earth metal or alkali metal hydride, hydroxide, amide, alcoholate, acetate, carbonate or hydrogen carbonate, such as sodium hydride, sodium amide, lithiium diisopropylamide, sodium methanolate, sodium ethanolate, potassium tert-butanolate, sodium acetate, potassium acetate, calcium acetate, sodium hydroxide, potassium hydroxide, sodium carbonate, potassium carbonate, potassium bicarbonate, sodium bicarbonate, cesium carbonate or ammonium carbonate; and also tertiary amine, such as trimethylamine, triethylamine (TEA), tributylamine, N,N-dimethylaniline, N,N-dimethyl-benzylamine, N,N-diisopropyl-ethylamine (DIPEA), pyridine, N-methylpiperidine, N-methylmorpholine, N,N-dimethylaminopyridine, diazabicyclooctane (DABCO), diazabicyclononene (DBN) or diazabicycloundecene (DBU), according to known methods. In such a case there is provided a process P3 according to the invention and such a process P3 can be illustrated by the following reaction scheme:



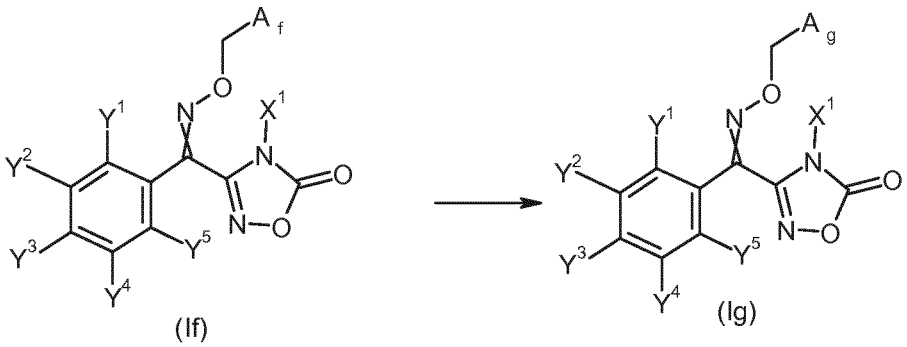
Process P3

wherein

- Y^1, Y^2, Y^3, Y^4, Y^5 and X^1 are as herein-defined and A_d represents A wherein Z^1 represents a halogen atom; A_e represents A wherein Z^1 represents an amino group, a cyano group, , substituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino, or a group of formula $QC(=O)NHR^a$.

According to the invention, there is provided a further process P4 for the preparation of compounds of formula (Ig) from compounds of formula (If).

For the compounds of formula (If) according to the invention, A_f represents A wherein Z^1 represents a group of formula $QC(=O)NR^a$, process P1 according to the invention can be completed by a further step comprising the additional modification of this group, notably by a reaction of thiocarbonylation in the presence of a thiocarbonylating agent such as 2,4-bis(4-methoxyphenyl)-1,3,2,4-dithiadiphosphetane 2,4-disulfide, phosphorus pentasulfide, sulfur to yield to a compound of formula (Ig), according to known methods. In such a case there is provided a process P4 according to the invention and such a process P4 can be illustrated by the following reaction scheme :



(If) (Ig)

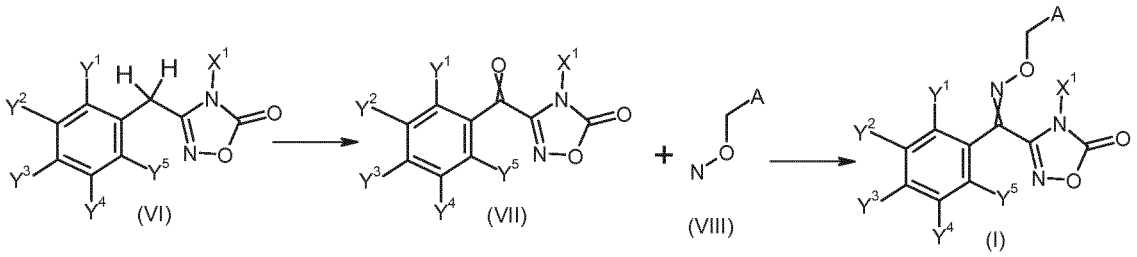
Process P4

Wherein

- Y^1, Y^2, Y^3, Y^4, Y^5 , X^1 , R^a and Q are as herein-defined;
- A_f represents A wherein Z^1 represents a group of formula $QC(=O)NR^a$
- and A_g represents A wherein Z^1 represents a group of formula $QC(=S)NR^a$.

The present invention also relates to a process for the preparation of compounds of formula (I), Thus, according to a further aspect of the present invention, there is a provided a process P5 for the preparation of compounds of formula (I) from compounds of formula (VI), by a reaction of oxidation compounds of formula (VI) in a presence of a suitable oxidizing agent to yield to a compound of

compounds of formula (VII), followed by a condensation of compounds of formula (VIII), optionally under microwave irradiation, optionally in the presence of a dehydrating agent, such as molecular sieves, to yield to compounds of formula (I), according to known methods. In such a case there is provided a process P5, according to the invention and such a process P5 can be illustrated by the following reaction scheme:



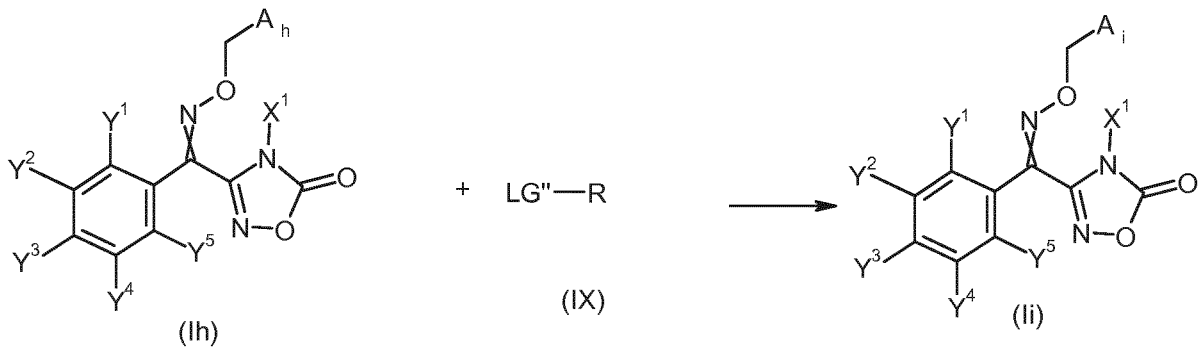
Process P5

wherein Y^1, Y^2, Y^3, Y^4, Y^5, A and X^1 are as herein-defined.

Examples of oxidations at the methylene position between a phenyl ring and an heterocycle to yield an oxo substituent are known and can be found for example in Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (12), 2995-3006. Suitable oxidizing agents for carrying out the first step of process P5 according to the invention can be inorganic and organic peroxides such as hydrogen peroxide and benzoyl peroxide, metallic and metalloïdic oxides such as manganese (IV) oxide, chromium (VI) oxide, oxygen optionally in the presence of singlet oxygen activator, halogenating agents in an aqueous medium such as bleach.

Compounds of formula (VI) are easily accessible to the skilled worker in the art. Examples of preparation can be found in Annali di Chimica (Rome, Italy), (1963), 53(10), 1405-10
Examples of condensations of compounds of formula (VIII) with compounds of formula (VIII) can be found in world patent application WO2010/ 000841.
Compounds of formula (VIII) are easily accessible to the skilled worker in the art. Examples of preparation can be found in world patent application WO2010/ 000841.

According to the invention, there is provided a further process P6 for the preparation of compounds of formula (Ii) from compounds of formula (Ih), by a reaction of alkylation, according to known methods. In such a case there is provided a process P6 according to the invention and such a process P6 can be illustrated by the following reaction scheme:



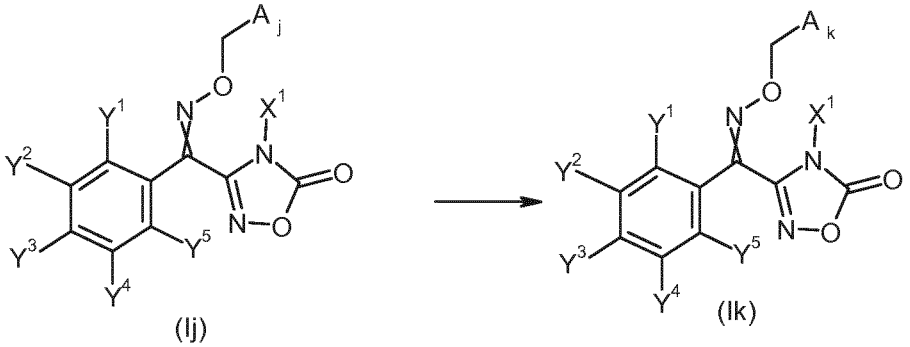
Process P6

Wherein

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 are as herein-defined
- A_h represents A wherein Z^1 represents an amino, substituted or non-substituted C_1-C_8-alkylamino or a group of formula -NHC(=O)Q wherein Q is as herein defined
- A_i represents A wherein Z^1 represents substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted heterocyclylamino, or a group of formula QC(=U)NR
- R represents optionally substituted C_1-C_8-alkyl, C_2-C_8-alkenyl, C_2-C_8-alkynyl, C_3-C_{10}-cycloalkyl, C_3-C_{10}-cycloalkenyl, C_3-C_{10}-fused bicycloalkyl, C_5-C_{12}-fused bicycloalkenyl
- LG" represents a leaving group.

Suitable leaving groups can be selected in the list consisting of a halogen atom or other customary nucleofugal groups such as alcoolate, hydroxide or cyanide.

According to the invention, there is provided a further process P7 for the preparation of compounds of formula (Ik) from compounds of formula (Il), by a reaction of deprotection, according to known methods. In such a case there is provided a process P7 according to the invention and such a process P7 can be illustrated by the following reaction scheme:



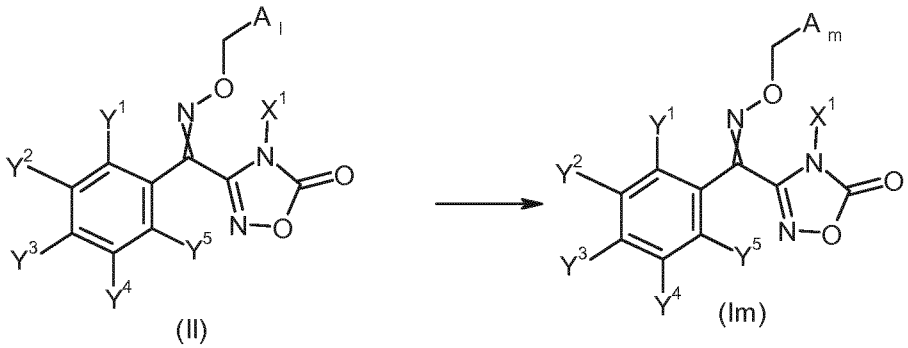
Process P7

Wherein

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 are as herein-defined
- A_j represents A wherein Z^1 represents a group of formula Z^1_a-PG wherein Z^1_a represents a substituted or non-substituted C_1-C_8-alkoxyamino, substituted or non-substituted C_1-C_8-alkylamino, a substituted or non-substituted C_2-C_8-alkenylamino, substituted or non-substituted C_2-C_8-alkynylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino and PG represents a protecting group such as a formyl group, C_1-C_8-alkylcarbonyl, C_1-C_8-alkoxycarbonyl, C_1-C_8-alkoxy-C_1-C_2-alkyl, tri(C_1-C_8-alkyl)silyl-C_1-C_2-alkyl, tri(C_1-C_8-alkyl)silyloxy-C_1-C_2-alkyl ;
- A_k represents A wherein Z^1 represents Z^1_a;

Amino-protecting groups and related methods of cleavage thereof are known and can be found in T.W. Greene and P.G.M. Wuts, *Protective Group in Organic Chemistry*, 3rd ed., John Wiley & Sons.

According to the invention, there is provided a further process P8 for the preparation of compounds of formula (Im) from compounds of formula (II), by a reaction of amino-reduction, in the presence of a reducing agent, such as hydrogen gas or an hydride derivative, in particular sodium cyanoborohydride, according to known methods. In such a case there is provided a process P8 according to the invention and such a process P8 can be illustrated by the following reaction scheme:



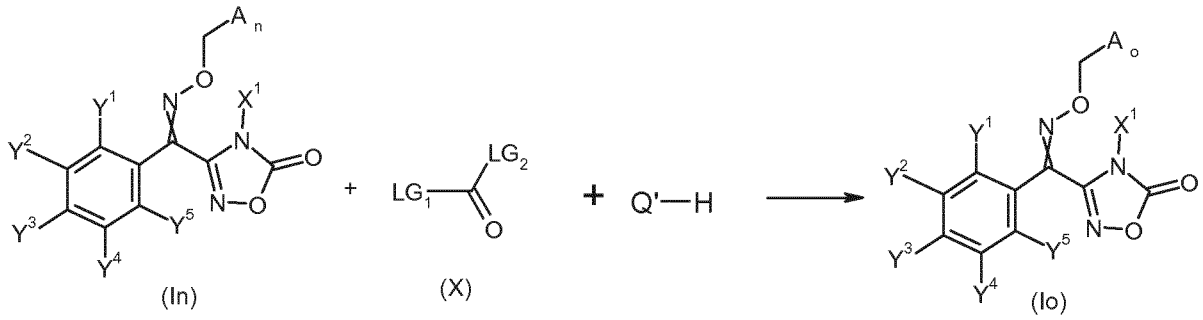
(II) (Im)

Process P8

Wherein

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 are as herein-defined;
- A_l represents A wherein Z^1 represents an amino group, a substituted or non-substituted C_1-C_8-alkylamino;
- A_m represents A wherein Z^1 represents a substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted di-C_1-C_8-alkylamino.

According to the invention, there is provided a further process P9 for the preparation of compounds of formula (Io) from compounds of formula (In) according to the following reaction scheme in either one or two steps.



Process P9

Wherein

Y^1, Y^2, Y^3, Y^4, Y^5, X^1, R^a and Q are as herein-defined and A_b represents A wherein Z^1 represents -NHR^a; A_c represents A wherein Z^1 represents a group of formula $QC(=U)NR^a$ and LG' represents a leaving group.

Wherein

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 , R^a are as herein-defined;
- A_n represents A wherein Z^1 represents -NHR^a;
- A_o represents A wherein Z^1 represents Q'C(=O)NR^a wherein Q' represents substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_2-C_8-alkynyloxy, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted C_2-C_8-alkenylsulfenyl, substituted or non-substituted C_2-C_8-alkynylsulfenyl, substituted or non-substituted arylsulfenyl, substituted or non-substituted cycloalkoxy; substituted or non-substituted cycloalkenyloxy, substituted or non-substituted aryloxy; substituted or non-substituted heterocyclyloxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkoxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyloxy, substituted or non-substituted C_5-C_{12}-benzofused carbocyclyloxy, substituted or non-substituted C_5-C_{12}-benzofused heterocyclyloxy;
- LG_1 and LG_2 represent leaving groups
- Suitable leaving groups can be selected in the list consisting of a halogen atom or other customary nucleofugal groups such as imidazole, halogenophenoxide or the likes.

According to the invention, processes P1 to P9 can be performed if appropriate in the presence of a solvent and if appropriate in the presence of a base.

According to the invention, processes P1 and P2 can be performed if appropriate in the presence of a catalyst. Suitable catalyst can be chosen as being 4-dimethyl-aminopyridine, 1-hydroxy-benzotriazole or dimethylformamide.

In case LG' represents a hydroxy group, the process P2 according to the present invention can be performed in the presence of condensing agent. Suitable condensing agent can be chosen as being acid halide former, such as phosgene, phosphorous tri-bro-mide, phosphorous trichloride, phosphorous pentachloride, phosphorous trichloride oxide or thionyl chloride ; anhydride former, such as ethyl chloroformate, methyl chloroformate, isopropyl chloroformate, isobutyl chloroformate or methanesulfonyl chloride ; carbodiimides, such as N,N'-dicyclohexylcarbodiimide (DCC) or other customary condensing agents, such as phosphorous pentoxide, polyphosphoric acid, N,N'-carbonyl-diimidazole, 2-ethoxy-N-ethoxycarbonyl-1,2-dihydroquinoline (EEDQ), triphenylphosphine/tetrachloromethane, 4-(4,6-dimethoxy[1.3.5]triazin-2-yl)-4-methylmorpholinium chloride hydrate or bromo-tripyrrolidino-phosphonium-hexafluorophosphate.

Suitable solvents for carrying out processes P1 to P9 according to the invention are customary inert organic solvents. Preference is given to using optionally halogenated aliphatic, alicyclic or aromatic hydrocarbons, such as petroleum ether, hexane, heptane, cyclohexane, methylcyclohexane, benzene, toluene, xylene or decalin ; chlorobenzene, dichlorobenzene, dichloromethane, chloroform, carbon tetrachloride, dichlorethane or trichlorethane ; ethers, such as diethyl ether, diisopropyl ether, methyl tert-butyl ether, methyl tert-amyl ether, dioxane, tetrahydrofuran, 1,2-dimethoxyethane, 1,2-diethoxyethane or anisole ; nitriles, such as acetonitrile, propionitrile, n- or iso-butyronitrile or benzonitrile ; amides, such as *N*,*N*-dimethylformamide, *N*,*N*-dimethylacetamide, *N*-methylformanilide, *N*-methylpyrrolidone or hexamethylphosphoric triamide ; esters, such as methyl acetate or ethyl acetate, sulfoxides, such as dimethyl sulfoxide or sulfones, such as sulfolane.

Suitable bases for carrying out processes P1 to P9 according to the invention are inorganic and organic bases which are customary for such reactions. Preference is given to using alkaline earth metal, alkali metal hydride, alkali metal hydroxides or alkali metal alkoxides, such as sodium hydroxide, sodium hydride, calcium hydroxide, potassium hydroxide, potassium tert-butoxide or other ammonium hydroxide, alkali metal carbonates, such as sodium carbonate, potassium carbonate, potassium bicarbonate, sodium bicarbonate, cesium carbonate, alkali metal or alkaline earth metal acetates, such as sodium acetate, potassium acetate, calcium acetate and also tertiary amines, such as trimethylamine, triethylamine, diisopropylethylamine, tributylamine, *N*,*N*-dimethylaniline, pyridine, *N*-methylpiperidine, *N*,*N*-dimethylaminopyridine, 1,4-diazabicyclo[2.2.2]octane (DABCO), 1,5-diazabicyclo[4.3.0]non-5-ene (DBN) or 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU).

If carrying out processes P1 to P9, according to the invention, the reaction temperature can independently be varied within a relatively wide range. Generally, process P1 according to the invention is carried out at temperatures between -20°C and 160°C.

Processes P1 to P9 according to the invention are generally independently carried out under atmospheric pressure. However, it is also possible to operate under elevated or reduced pressure.

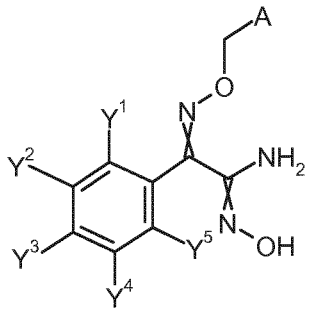
Work-up is carried out by customary methods. Generally, the reaction mixture is treated with water and the organic phase is separated off and, after drying, concentrated under reduced pressure. If appropriate, the remaining residue can be freed by customary methods, such as chromatography or recrystallization, from any impurities that can still be present.

Compounds according to the invention can be prepared according to the above described processes. It will nevertheless be understood that, on the basis of his general knowledge and of available publications, the skilled worker will be able to adapt these processes according to the specifics of each of the compounds according to the invention that is desired to be synthesised.

The compounds of formula (IV) can be advantageously prepared according to the method described in WO2011/080254, hereby incorporated by reference.

In a further aspect, if A is as herein-described, the present invention relates to compounds of formula (V) useful as intermediate compounds or materials for the process of preparation according to the invention.

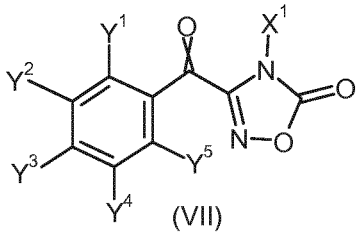
The present invention thus provides compounds of formula (V) wherein Y^1, Y^2, Y^3, Y^4, Y^5 and A are as herein-defined.



(V)

In a further aspect, if X^1 represents substituted or non-substituted C_1-C_8-alkyl, the present invention relates to compounds of formula (VII) useful as intermediate compounds or materials for the process of preparation according to the invention.

The present invention thus provides compounds of formula (VII) wherein Y^1, Y^2, Y^3, Y^4, Y^5 are as herein-defined and X^1 represents substituted or non-substituted C_1-C_8-alkyl.



(VII)

In a further aspect, the present invention also relates to a fungicide composition comprising an effective and non-phytotoxic amount of an active compound of formula (I).

The expression "effective and non-phytotoxic amount" means an amount of composition according to the invention which is sufficient to control or destroy the fungi present or liable to appear on the crops and which does not entail any appreciable symptom of phytotoxicity for the said crops. Such an amount can vary within a wide range depending on the fungus to be controlled, the type of crop, the climatic conditions and the compounds included in the fungicide composition according to the invention. This amount can be determined by systematic field trials, which are within the capabilities of a person skilled in the art.

Thus, according to the invention, there is provided a fungicide composition comprising, as an active ingredient, an effective amount of a compound of formula (I) as herein defined and an agriculturally acceptable support, carrier or filler.

According to the invention, the term "support" denotes a natural or synthetic organic or inorganic compound with which the active compound of formula (I) is combined or associated to make it easier to apply, notably to the parts of the plant. This support is thus generally inert and should be agriculturally acceptable. The support can be a solid or a liquid. Examples of suitable supports include clays, natural or synthetic silicates, silica, resins, waxes, solid fertilisers, water, alcohols, in particular butanol organic solvents, mineral and plant oils and derivatives thereof. Mixtures of such supports can also be used.

The composition according to the invention can also comprise additional components. In particular, the composition can further comprise a surfactant. The surfactant can be an emulsifier, a dispersing agent or a wetting agent of ionic or non-ionic type or a mixture of such surfactants. Mention can be made, for example, of polyacrylic acid salts, lignosulfonic acid salts, phenolsulfonic or naphthalenesulfonic acid salts, polycondensates of ethylene oxide with fatty alcohols or with fatty acids or with fatty amines, substituted phenols (in particular alkylphenols or arylphenols), salts of sulfosuccinic acid esters, taurine derivatives (in particular alkyl taurates), phosphoric esters of polyoxyethylated alcohols or phenols, fatty acid esters of polyols and derivatives of the above compounds containing sulfate, sulfonate and phosphate functions. The presence of at least one surfactant is generally essential if the active compound and/or the inert support are water-insoluble

and if the vector agent for the application is water. Preferably, surfactant content can be comprised from 5% to 40% by weight of the composition.

Optionally, additional components can also be included, e.g. protective colloids, adhesives, thickeners, thixotropic agents, penetration agents, stabilisers, sequestering agents. More generally, the active compounds can be combined with any solid or liquid additive, which complies with the usual formulation techniques.

In general, the composition according to the invention can contain from 0.05 to 99% by weight of active compound, preferably 10 to 70% by weight.

Compositions according to the invention can be used in various forms and formulations such as aerosol dispenser, capsule suspension, cold fogging concentrate, dustable powder, emulsifiable concentrate, emulsion oil in water, emulsion water in oil, encapsulated granule, fine granule, flowable concentrate for seed treatment, gas (under pressure),gas generating product, granule, hot fogging concentrate, macrogranule, microgranule, oil dispersible powder, oil miscible flowable concentrate, oil miscible liquid, paste, plant rodlet, powder for dry seed treatment, seed coated with a pesticide, soluble concentrate, soluble powder, solution for seed treatment, suspension concentrate (flowable concentrate), ultra low volume (ULV) liquid, ultra low volume (ULV) suspension, water dispersible granules or tablets, water dispersible powder for slurry treatment, water soluble granules or tablets, water soluble powder for seed treatment and wettable powder. These compositions include not only compositions which are ready to be applied to the plant or seed to be treated by means of a suitable device, such as a spraying or dusting device, but also concentrated commercial compositions which must be diluted before application to the crop.

The compounds according to the invention can also be mixed with one or more insecticide, fungicide, bactericide, attractant, acaricide or pheromone active substance or other compounds with biological activity. The mixtures thus obtained have a broadened spectrum of activity. The mixtures with other fungicide compounds are particularly advantageous. The composition according to the invention comprising a mixture of a compound of formula (I) with a bactericide compound can also be particularly advantageous.

The formulations can be prepared in a manner known per se, for example by mixing the active ingredients with at least one customary extender, solvent or diluent, adjuvant, emulsifier, dispersant, and/or binder or fixative, wetting agent, water repellent, if appropriate desiccants and UV stabilizers and, if appropriate, dyes and pigments, antifoams, preservatives, inorganic and organic thickeners, adhesives, gibberellins and also further processing auxiliaries and also water. Depending on the formulation type to be prepared further processing steps are necessary, e.g. wet grinding, dry grinding and granulation.

The inventive active ingredients may be present as such or in their (commercial) formulations and in the use forms prepared from these formulations as a mixture with other (known) active ingredients, such as insecticides, attractants, sterilants, bactericides, acaricides, nematicides, fungicides, growth regulators,

herbicides, fertilizers, safeners, biologicals and/or semiochemicals.

The present invention further relates to the use of compounds of the formula (I) as herein defined for the control of phytopathogenic fungi.

The present invention further relates to the use of compounds of the formula (I) as herein defined for the treatment of transgenic plants.

The present invention further relates to the use of compounds of the formula (I) as herein defined for the treatment of seed and of seed of transgenic plants.

The present invention further relates to a process for producing compositions for controlling phytopathogenic harmful fungi, characterized in that derivatives of the formula (I) as herein defined are mixed with extenders and/or surfactants.

According to another object of the present invention, there is provided a method for controlling the phytopathogenic fungi of plants, crops or seeds, characterized in that an agronomically effective and substantially non-phytotoxic quantity of a pesticide composition according to the invention is applied as seed treatment, foliar application, stem application, drench or drip application (chemigation) to the seed, the plant or to the fruit of the plant or to soil or to inert substrate (e.g. inorganic substrates like sand, rockwool, glasswool; expanded minerals like perlite, vermiculite, zeolite or expanded clay), Pumice, Pyroclastic materials or stuff, synthetic organic substrates (e.g. polyurethane) organic substrates (e.g. peat, composts, tree waste products like coir, wood fibre or chips, tree bark) or to a liquid substrate (e.g. floating hydroponic systems, Nutrient Film Technique, Aeroponics) wherein the plant is growing or wherein it is desired to grow.

The expression “are applied to the plants to be treated” is understood to mean, for the purposes of the present invention, that the pesticide composition which is the subject of the invention can be applied by means of various methods of treatment such as:

- spraying onto the aerial parts of the said plants a liquid comprising one of the said compositions,
- dusting, the incorporation into the soil of granules or powders, spraying, around the said plants and in the case of trees injection or daubing,
- coating or film-coating the seeds of the said plants with the aid of a plant-protection mixture comprising one of the said compositions.

The method according to the invention can either be a curing, preventing or eradicating method.

In this method, a composition used can be prepared beforehand by mixing the two or more active compounds according to the invention.

According to an alternative of such a method, it is also possible to apply simultaneously, successively or separately compounds (A) and (B) so as to have the conjugated (A)/(B) effects, of distinct compositions each containing one of the two or three active ingredients (A) or (B).

The dose of active compound usually applied in the method of treatment according to the invention is generally and advantageously

- for foliar treatments: from 0.1 to 10,000 g/ha, preferably from 10 to 1,000 g/ha, more preferably from 50 to 300g/ha; in case of drench or drip application, the dose can even be reduced, especially while using inert substrates like rockwool or perlite;
- for seed treatment: from 2 to 200 g per 100 kilogram of seed, preferably from 3 to 150 g per 100 kilogram of seed;
- for soil treatment: from 0.1 to 10,000 g/ha, preferably from 1 to 5,000 g/ha.

The doses herein indicated are given as illustrative Examples of method according to the invention. A person skilled in the art will know how to adapt the application doses, notably according to the nature of the plant or crop to be treated.

Under specific conditions, for example according to the nature of the phytopathogenic fungus to be treated or controlled, a lower dose can offer adequate protection. Certain climatic conditions, resistance or other factors like the nature of the phytopathogenic fungi or the degree of infestation, for example, of the plants with these fungi, can require higher doses of combined active ingredients. The optimum dose usually depends on several factors, for example on the type of phytopathogenic fungus to be treated, on the type or level of development of the infested plant, on the density of vegetation or alternatively on the method of application.

Without it being limiting, the crop treated with the pesticide composition or combination according to the invention is, for example, grapevine, but this could be cereals, vegetables, lucerne, soybean, market garden crops, turf, wood, tree or horticultural plants.

The method of treatment according to the invention can also be useful to treat propagation material such as tubers or rhizomes, but also seeds, seedlings or seedlings pricking out and plants or plants pricking out. This method of treatment can also be useful to treat roots. The method of treatment according to the invention can also be useful to treat the over-ground parts of the plant such as trunks, stems or stalks, leaves, flowers and fruit of the concerned plant.

Among the plants that can be protected by the method according to the invention, mention can be made of cotton; flax; vine; fruit or vegetable crops such as *Rosaceae sp.* (for instance pip fruit such as apples and pears, but also stone fruit such as apricots, almonds and peaches), *Ribesioidae sp.*, *Juglandaceae sp.*, *Betulaceae sp.*, *Anacardiaceae sp.*, *Fagaceae sp.*, *Moraceae sp.*, *Oleaceae sp.*, *Actinidaceae sp.*, *Lauraceae sp.*, *Musaceae sp.* (for instance banana trees and plantins), *Rubiaceae sp.*, *Theaceae sp.*, *Sterculiceae sp.*, *Rutaceae sp.* (for instance lemons oranges and grapefruit); *Solanaceae sp.* (for instance tomatoes), *Liliaceae sp.*, *Asteraceae sp.* (for instance lettuces), *Umbelliferae sp.*, *Cruciferae sp.*, *Chenopodiaceae sp.*, *Cucurbitaceae sp.*, *Papilionaceae sp.* (for instance peas), *Rosaceae sp.* (for instance strawberries); major crops such as *Graminae sp.* (for instance maize, lawn or cereals such as wheat, rice, barley and triticale), *Asteraceae sp.* (for instance sunflower), *Cruciferae sp.* (for instance colza), *Fabacae sp.* (for instance peanuts), *Papilionaceae sp.* (for instance soybean), *Solanaceae sp.* (for instance potatoes), *Chenopodiaceae sp.* (for instance beetroots); horticultural and forest crops; as well as genetically modified homologues of these crops.

The method of treatment according to the invention can be used in the treatment of genetically modified organisms (GMOs), e.g. plants or seeds. Genetically modified plants (or transgenic plants) are plants in which a heterologous gene has been stably integrated into the genome. The expression "heterologous gene" essentially means a gene which is provided or assembled outside the plant and when introduced in the nuclear, chloroplastic or mitochondrial genome gives the transformed plant new or improved agronomic or other properties by expressing a protein or polypeptide of interest or by downregulating or silencing other gene(s) which are present in the plant (using for example, antisense technology, co suppression technology or RNA interference – RNAi - technology). A heterologous gene that is located in the genome is also called a transgene. A transgene that is defined by its particular location in the plant genome is called a transformation or transgenic event.

Depending on the plant species or plant cultivars, their location and growth conditions (soils, climate, vegetation period, diet), the treatment according to the invention may also result in superadditive ("synergistic") effects. Thus, for example, reduced application rates and/or a widening of the activity spectrum and/or an increase in the activity of the active compounds and compositions which can be used according to the invention, better plant growth, increased tolerance to high or low temperatures, increased tolerance to drought or to water or soil salt content, increased flowering performance, easier harvesting, accelerated maturation, higher harvest yields, bigger fruits, larger plant height, greener leaf color, earlier flowering, higher quality and/or a higher nutritional value of the harvested products, higher sugar concentration within the fruits, better storage stability and/or processability of the harvested products are possible, which exceed the effects which were actually to be expected.

At certain application rates, the active compound combinations according to the invention may also have a strengthening effect in plants. Accordingly, they are also suitable for mobilizing the defense system of the plant against attack by unwanted phytopathogenic fungi and/ or microorganisms and/or viruses. This may, if appropriate, be one of the reasons of the enhanced activity of the combinations according to the invention, for example against fungi. Plant-strengthening (resistance-inducing) substances are to be understood as meaning, in the present context, those substances or combinations of substances which are capable of stimulating the defense system of plants in such a way that, when subsequently inoculated with unwanted phytopathogenic fungi and/ or microorganisms and/or viruses, the treated plants display a substantial degree of resistance to these unwanted phytopathogenic fungi and/ or microorganisms and/or viruses. In the present case, unwanted phytopathogenic fungi and/ or microorganisms and/or viruses are to be understood as meaning phytopathogenic fungi, bacteria and viruses. Thus, the substances according to the invention can be employed for protecting plants against attack by the abovementioned pathogens within a certain period of time after the treatment. The period of time within which protection is effected generally extends from 1 to 10 days, preferably 1 to 7 days, after the treatment of the plants with the active compounds.

Plants and plant cultivars which are preferably to be treated according to the invention include all plants which have genetic material which impart particularly advantageous, useful traits to these plants (whether obtained by breeding and/or biotechnological means).

Plants and plant cultivars which are also preferably to be treated according to the invention are resistant against one or more biotic stresses, i.e. said plants show a better defense against animal and microbial pests, such as against nematodes, insects, mites, phytopathogenic fungi, bacteria, viruses and/or viroids.

Plants and plant cultivars which may also be treated according to the invention are those plants which are resistant to one or more abiotic stresses. Abiotic stress conditions may include, for example, drought, cold temperature exposure, heat exposure, osmotic stress, flooding, increased soil salinity, increased mineral exposure, ozon exposure, high light exposure, limited availability of nitrogen nutrients, limited availability of phosphorus nutrients, shade avoidance.

Plants and plant cultivars which may also be treated according to the invention, are those plants characterized by enhanced yield characteristics. Increased yield in said plants can be the result of, for example, improved plant physiology, growth and development, such as water use efficiency, water retention efficiency, improved nitrogen use, enhanced carbon assimilation, improved photosynthesis, increased germination efficiency and accelerated maturation. Yield can furthermore be affected by improved plant architecture (under stress and non-stress conditions), including but not limited to, early flowering, flowering control for hybrid seed production, seedling vigor, plant size, internode number and distance, root growth, seed size, fruit size, pod size, pod or ear number, seed number per pod or ear, seed mass, enhanced seed filling, reduced seed dispersal, reduced pod dehiscence and lodging resistance. Further yield traits include seed composition, such as carbohydrate content, protein content, oil content and composition, nutritional value, reduction in anti-nutritional compounds, improved processability and better storage stability.

Plants that may be treated according to the invention are hybrid plants that already express the characteristic of heterosis or hybrid vigor which results in generally higher yield, vigor, health and resistance towards biotic and abiotic stress factors. Such plants are typically made by crossing an inbred male-sterile parent line (the female parent) with another inbred male-fertile parent line (the male parent). Hybrid seed is typically harvested from the male sterile plants and sold to growers. Male sterile plants can sometimes (e.g. in corn) be produced by detasseling, i.e. the mechanical removal of the male reproductive organs (or males flowers) but, more typically, male sterility is the result of genetic determinants in the plant genome. In that case, and especially when seed is the desired product to be harvested from the hybrid plants it is typically useful to ensure that male fertility in the hybrid plants is fully restored. This can be accomplished by ensuring that the male parents have appropriate fertility restorer genes which are capable of restoring the male fertility in hybrid plants that contain the genetic determinants responsible for male-sterility. Genetic determinants for male sterility

may be located in the cytoplasm. Examples of cytoplasmic male sterility (CMS) were for instance described in Brassica species (W0 1992/005251, WO 1995/009910, WO 1998/27806, WO 2005/002324, WO 2006/021972 and US 6,229,072). However, genetic determinants for male sterility can also be located in the nuclear genome. Male sterile plants can also be obtained by plant biotechnology methods such as genetic engineering. A particularly useful means of obtaining male-sterile plants is described in WO 1989/10396 in which, for example, a ribonuclease such as barnase is selectively expressed in the tapetum cells in the stamens. Fertility can then be restored by expression in the tapetum cells of a ribonuclease inhibitor such as barstar (e.g. WO 1991/002069).

Plants or plant cultivars (obtained by plant biotechnology methods such as genetic engineering) which may be treated according to the invention are herbicide-tolerant plants, i.e. plants made tolerant to one or more given herbicides. Such plants can be obtained either by genetic transformation, or by selection of plants containing a mutation imparting such herbicide tolerance.

Herbicide-tolerant plants are for example glyphosate-tolerant plants, i.e. plants made tolerant to the herbicide glyphosate or salts thereof. Plants can be made tolerant to glyphosate through different means. For example, glyphosate-tolerant plants can be obtained by transforming the plant with a gene encoding the enzyme 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS). Examples of such EPSPS genes are the AroA gene (mutant CT7) of the bacterium Salmonella typhimurium (Comai et al., Science (1983), 221, 370-371), the CP4 gene of the bacterium Agrobacterium sp. (Barry et al., Curr. Topics Plant Physiol. (1992), 7, 139-145), the genes encoding a Petunia EPSPS (Shah et al., Science (1986), 233, 478-481), a Tomato EPSPS (Gasser et al., J. Biol. Chem. (1988),263, 4280-4289), or an Eleusine EPSPS (WO 2001/66704). It can also be a mutated EPSPS as described in for example EP-A 0837944, WO 2000/066746, WO 2000/066747 or WO 2002/026995. Glyphosate-tolerant plants can also be obtained by expressing a gene that encodes a glyphosate oxido-reductase enzyme as described in US 5,776,760 and US 5,463,175. Glyphosate-tolerant plants can also be obtained by expressing a gene that encodes a glyphosate acetyl transferase enzyme as described in for example WO 2002/036782, WO 2003/092360, WO 2005/012515 and WO 2007/024782. Glyphosate-tolerant plants can also be obtained by selecting plants containing naturally-occurring mutations of the above-mentioned genes, as described in for example WO 2001/024615 or WO 2003/013226.

Other herbicide resistant plants are for example plants that are made tolerant to herbicides inhibiting the enzyme glutamine synthase, such as bialaphos, phosphinothricin or glufosinate. Such plants can be obtained by expressing an enzyme detoxifying the herbicide or a mutant glutamine synthase enzyme that is resistant to inhibition. One such efficient detoxifying enzyme is an enzyme encoding a phosphinothricin acetyltransferase (such as the bar or pat protein from Streptomyces species). Plants expressing an exogenous phosphinothricin acetyltransferase are for example described in US 5,561,236; US 5,648,477; US 5,646,024; US 5,273,894; US 5,637,489; US 5,276,268; US 5,739,082; US 5,908,810 and US 7,112,665.

Further herbicide-tolerant plants are also plants that are made tolerant to the herbicides inhibiting the enzyme hydroxyphenylpyruvatedioxygenase (HPPD). Hydroxyphenylpyruvatedioxygenases are

enzymes that catalyze the reaction in which para-hydroxyphenylpyruvate (HPP) is transformed into homogentisate. Plants tolerant to HPPD-inhibitors can be transformed with a gene encoding a naturally-occurring resistant HPPD enzyme, or a gene encoding a mutated HPPD enzyme as described in WO 1996/038567, WO 1999/024585 and WO 1999/024586. Tolerance to HPPD-inhibitors can also be obtained by transforming plants with genes encoding certain enzymes enabling the formation of homogentisate despite the inhibition of the native HPPD enzyme by the HPPD-inhibitor. Such plants and genes are described in WO 1999/034008 and WO 2002/36787. Tolerance of plants to HPPD inhibitors can also be improved by transforming plants with a gene encoding an enzyme prephenate dehydrogenase in addition to a gene encoding an HPPD-tolerant enzyme, as described in WO 2004/024928.

Still further herbicide resistant plants are plants that are made tolerant to acetolactate synthase (ALS) inhibitors. Known ALS-inhibitors include, for example, sulfonylurea, imidazolinone, triazolopyrimidines, pyrimidinyloxy(thio)benzoates, and/or sulfonylaminocarbonyltriazolinone herbicides. Different mutations in the ALS enzyme (also known as acetohydroxyacid synthase, AHAS) are known to confer tolerance to different herbicides and groups of herbicides, as described for example in Tranel and Wright, Weed Science (2002), 50, 700-712, but also, in US 5,605,011, US 5,378,824, US 5,141,870, and US 5,013,659. The production of sulfonylurea-tolerant plants and imidazolinone-tolerant plants is described in US 5,605,011; US 5,013,659; US 5,141,870; US 5,767,361; US 5,731,180; US 5,304,732; US 4,761,373; US 5,331,107; US 5,928,937; and US 5,378,824; and international publication WO 1996/033270. Other imidazolinone-tolerant plants are also described in for example WO 2004/040012, WO 2004/106529, WO 2005/020673, WO 2005/093093, WO 2006/007373, WO 2006/015376, WO 2006/024351, and WO 2006/060634. Further sulfonylurea- and imidazolinone-tolerant plants are also described in for example WO 2007/024782.

Other plants tolerant to imidazolinone and/or sulfonylurea can be obtained by induced mutagenesis, selection in cell cultures in the presence of the herbicide or mutation breeding as described for example for soybeans in US 5,084,082, for rice in WO 1997/41218, for sugar beet in US 5,773,702 and WO 1999/057965 , for lettuce in US 5,198,599, or for sunflower in WO 2001/065922.

Plants or plant cultivars (obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are insect-resistant transgenic plants, i.e. plants made resistant to attack by certain target insects. Such plants can be obtained by genetic transformation, or by selection of plants containing a mutation imparting such insect resistance.

An “insect-resistant transgenic plant”, as used herein, includes any plant containing at least one transgene comprising a coding sequence encoding:

1) an insecticidal crystal protein from Bacillus thuringiensis or an insecticidal portion thereof, such as the insecticidal crystal proteins listed by Crickmore et al., Microbiology and Molecular Biology Reviews (1998), 62, 807-813, updated by Crickmore et al. (2005) at the Bacillus thuringiensis toxin nomenclature, online at: http://www.lifesci.sussex.ac.uk/Home/Neil_Crickmore/Bt/), or insecticidal portions thereof, e.g.,

proteins of the Cry protein classes Cry1Ab, Cry1Ac, Cry1F, Cry2Ab, Cry3Aa, or Cry3Bb or insecticidal portions thereof; or

2) a crystal protein from Bacillus thuringiensis or a portion thereof which is insecticidal in the presence of a second other crystal protein from Bacillus thuringiensis or a portion thereof, such as the binary toxin made up of the Cry34 and Cry35 crystal proteins (Moellenbeck et al., Nat. Biotechnol. (2001), 19, 668-72; Schnepf et al., Applied Environm. Microbiol. (2006), 71, 1765-1774); or

3) a hybrid insecticidal protein comprising parts of different insecticidal crystal proteins from Bacillus thuringiensis, such as a hybrid of the proteins of 1) above or a hybrid of the proteins of 2) above, e.g., the Cry1A.105 protein produced by corn event MON98034 (WO 2007/027777); or

4) a protein of any one of 1) to 3) above wherein some, particularly 1 to 10, amino acids have been replaced by another amino acid to obtain a higher insecticidal activity to a target insect species, and/or to expand the range of target insect species affected, and/or because of changes introduced into the encoding DNA during cloning or transformation, such as the Cry3Bb1 protein in corn events MON863 or MON88017, or the Cry3A protein in corn event MIR604;

5) an insecticidal secreted protein from Bacillus thuringiensis or Bacillus cereus, or an insecticidal portion thereof, such as the vegetative insecticidal (VIP) proteins listed at: http://www.lifesci.sussex.ac.uk/home/Neil_Crickmore/Bt/vip.html, e.g., proteins from the VIP3Aa protein class; or

6) a secreted protein from Bacillus thuringiensis or Bacillus cereus which is insecticidal in the presence of a second secreted protein from Bacillus thuringiensis or B. cereus, such as the binary toxin made up of the VIP1A and VIP2A proteins (WO 1994/21795); or

7) a hybrid insecticidal protein comprising parts from different secreted proteins from Bacillus thuringiensis or Bacillus cereus, such as a hybrid of the proteins in 1) above or a hybrid of the proteins in 2) above; or

8) a protein of any one of 1) to 3) above wherein some, particularly 1 to 10, amino acids have been replaced by another amino acid to obtain a higher insecticidal activity to a target insect species, and/or to expand the range of target insect species affected, and/or because of changes introduced into the encoding DNA during cloning or transformation (while still encoding an insecticidal protein), such as the VIP3Aa protein in cotton event COT102.

Of course, an insect-resistant transgenic plant, as used herein, also includes any plant comprising a combination of genes encoding the proteins of any one of the above classes 1 to 8. In one embodiment, an insect-resistant plant contains more than one transgene encoding a protein of any one of the above classes 1 to 8, to expand the range of target insect species affected when using different proteins directed at different target insect species, or to delay insect resistance development to the plants by using different proteins insecticidal to the same target insect species but having a different mode of action, such as binding to different receptor binding sites in the insect.

Plants or plant cultivars (obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are tolerant to abiotic stresses. Such plants can be obtained by genetic transformation, or by selection of plants containing a mutation imparting such stress resistance. Particularly useful stress tolerance plants include:

a. plants which contain a transgene capable of reducing the expression and/or the activity of poly(ADP-ribose)polymerase (PARP) gene in the plant cells or plants as described in WO 2000/004173 or WO2006/045633 or PCT/EP07/004142.

b. plants which contain a stress tolerance enhancing transgene capable of reducing the expression and/or the activity of the PARG encoding genes of the plants or plants cells, as described e.g. in WO 2004/090140.

c. plants which contain a stress tolerance enhancing transgene coding for a plant-functional enzyme of the nicotinamide adenine dinucleotide salvage synthesis pathway including nicotinamidase, nicotinate phosphoribosyltransferase, nicotinic acid mononucleotide adenyl transferase, nicotinamide adenine dinucleotide synthetase or nicotine amide phosphoribosyltransferase as described e.g. in WO2006/032469 or WO 2006/133827 or PCT/EP07/002433.

Plants or plant cultivars (obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention show altered quantity, quality and/or storage-stability of the harvested product and/or altered properties of specific ingredients of the harvested product such as :

1) transgenic plants which synthesize a modified starch, which in its physical-chemical characteristics, in particular the amylose content or the amylose/amylopectin ratio, the degree of branching, the average chain length, the side chain distribution, the viscosity behaviour, the gelling strength, the starch grain size and/or the starch grain morphology, is changed in comparison with the synthesised starch in wild type plant cells or plants, so that this is better suited for special applications. Said transgenic plants synthesizing a modified starch are disclosed, for example, in EP 0571427, WO 1995/004826, EP 0719338, WO 1996/15248, WO 1996/19581, WO 1996/27674, WO 1997/11188, WO 1997/26362, WO 1997/32985, WO 1997/42328, WO 1997/44472, WO 1997/45545, WO 1998/27212, WO 1998/40503, WO99/58688, WO 1999/58690, WO 1999/58654, WO 2000/008184, WO 2000/008185, WO 2000/008175, WO 2000/28052, WO 2000/77229, WO 2001/12782, WO 2001/12826, WO 2002/101059, WO 2003/071860, WO 2004/056999, WO 2005/030942, WO 2005/030941, WO 2005/095632, WO 2005/095617, WO 2005/095619, WO 2005/095618, WO 2005/123927, WO 2006/018319, WO 2006/103107, WO 2006/108702, WO 2007/009823, WO 2000/22140, WO 2006/063862, WO 2006/072603, WO 2002/034923, EP 06090134.5, EP 06090228.5, EP 06090227.7, EP 07090007.1, EP 07090009.7, WO 2001/14569, WO 2002/79410, WO

2003/33540, WO 2004/078983, WO 2001/19975, WO 1995/26407, WO 1996/34968, WO 1998/20145, WO 1999/12950, WO 1999/66050, WO 1999/53072, US 6,734,341, WO 2000/11192, WO 1998/22604, WO 1998/32326, WO 2001/98509, WO 2001/98509, WO 2005/002359, US 5,824,790, US 6,013,861, WO 1994/004693, WO 1994/009144, WO 1994/11520, WO 1995/35026, WO 1997/20936.

2) transgenic plants which synthesize non starch carbohydrate polymers or which synthesize non starch carbohydrate polymers with altered properties in comparison to wild type plants without genetic modification. Examples are plants producing polyfructose, especially of the inulin and levan-type, as disclosed in EP 0663956, WO 1996/001904, WO 1996/021023, WO 1998/039460, and WO 1999/024593, plants producing alpha 1,4 glucans as disclosed in WO 1995/031553, US 2002/031826, US 6,284,479, US 5,712,107, WO 1997/047806, WO 1997/047807, WO 1997/047808 and WO 2000/014249, plants producing alpha-1,6 branched alpha-1,4-glucans, as disclosed in WO 2000/73422, plants producing alternan, as disclosed in WO 2000/047727, EP 06077301.7, US 5,908,975 and EP 0728213,

3) transgenic plants which produce hyaluronan, as for example disclosed in WO 2006/032538, WO 2007/039314, WO 2007/039315, WO 2007/039316, JP 2006/304779, and WO 2005/012529.

Plants or plant cultivars (that can be obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are plants, such as cotton plants, with altered fiber characteristics. Such plants can be obtained by genetic transformation, or by selection of plants contain a mutation imparting such altered fiber characteristics and include:

a) Plants, such as cotton plants, containing an altered form of cellulose synthase genes as described in WO 1998/000549

b) Plants, such as cotton plants, containing an altered form of rsw2 or rsw3 homologous nucleic acids as described in WO2004/053219

c) Plants, such as cotton plants, with increased expression of sucrose phosphate synthase as described in WO 2001/017333

d) Plants, such as cotton plants, with increased expression of sucrose synthase as described in WO02/45485

e) Plants, such as cotton plants, wherein the timing of the plasmodesmatal gating at the basis of the fiber cell is altered, e.g. through downregulation of fiberselective β 1,3-glucanase as described in WO2005/017157

f) Plants, such as cotton plants, having fibers with altered reactivity, e.g. through the expression of N-acteylglucosaminetransferase gene including nodC and chitinsynthase genes as described in WO2006/136351

Plants or plant cultivars (that can be obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are plants, such as oilseed rape or related Brassica plants, with altered oil profile characteristics. Such plants can be obtained by genetic

transformation or by selection of plants contain a mutation imparting such altered oil characteristics and include:

a) Plants, such as oilseed rape plants, producing oil having a high oleic acid content as described e.g. in US 5,969,169, US 5,840,946 or US 6,323,392 or US 6,063,947

b) Plants such as oilseed rape plants, producing oil having a low linolenic acid content as described in US 6,270828, US 6,169,190 or US 5,965,755

c) Plant such as oilseed rape plants, producing oil having a low level of saturated fatty acids as described e.g. in US 5,434,283 or U.S. Patent Application 12/668303

Plants or plant cultivars (that can be obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are plants, such as oilseed rape or related Brassica plants, with altered seed shattering characteristics. Such plants can be obtained by genetic transformation, or by selection of plants contain a mutation imparting such altered seed shattering characteristics and include plants such as oilseed rape plants with delayed or reduced seed shattering as described in U.S. Patent Application 61/135,230, WO 2009/068313 and WO 2010/006732.

Plants or plant cultivars (that can be obtained by plant biotechnology methods such as genetic engineering) which may also be treated according to the invention are plants, such as Tobacco plants, with altered post-translational protein modification patterns, for example as described in WO 2010/121818 and WO 2010/145846.

Particularly useful transgenic plants which may be treated according to the invention are plants containing transformation events, or combination of transformation events, that are the subject of petitions for non-regulated status, in the United States of America, to the Animal and Plant Health Inspection Service (APHIS) of the United States Department of Agriculture (USDA) whether such petitions are granted or are still pending. At any time this information is readily available from APHIS (4700 River Road, Riverdale, MD 20737, USA), for instance on its internet site (URL http://www.aphis.usda.gov/brs/not_reg.html). On the filing date of this application the petitions for nonregulated status that were pending with APHIS or granted by APHIS were those which contains the following information:

- Petition: the identification number of the petition. Technical descriptions of the transformation events can be found in the individual petition documents which are obtainable from APHIS, for example on the APHIS website, by reference to this petition number. These descriptions are herein incorporated by reference.

- Extension of Petition: reference to a previous petition for which an extension is requested.

- Institution: the name of the entity submitting the petition.

- Regulated article: the plant species concerned.

- Transgenic phenotype: the trait conferred to the plants by the transformation event.

- Transformation event or line: the name of the event or events (sometimes also designated as lines or lines) for which nonregulated status is requested.

- APHIS documents: various documents published by APHIS in relation to the Petition and which can be requested with APHIS.

Additional particularly useful plants containing single transformation events or combinations of transformation events are listed for example in the databases from various national or regional regulatory agencies (see for example http://gmoinfo.jrc.it/gmp_browse.aspx and http://www.agbios.com/dbase.php).

Particularly useful transgenic plants which may be treated according to the invention are plants containing transformation events, or a combination of transformation events, and that are listed for example in the databases for various national or regional regulatory agencies including Event 1143-14A (cotton, insect control, not deposited, described in WO 2006/128569); Event 1143-51B (cotton, insect control, not deposited, described in WO 2006/128570); Event 1445 (cotton, herbicide tolerance, not deposited, described in US-A 2002-120964 or WO 02/034946); Event 17053 (rice, herbicide tolerance, deposited as PTA-9843, described in WO 2010/117737); Event 17314 (rice, herbicide tolerance, deposited as PTA-9844, described in WO 2010/117735); Event 281-24-236 (cotton, insect control - herbicide tolerance, deposited as PTA-6233, described in WO 2005/103266 or US-A 2005-216969); Event 3006-210-23 (cotton, insect control - herbicide tolerance, deposited as PTA-6233, described in US-A 2007-143876 or WO 2005/103266); Event 3272 (corn, quality trait, deposited as PTA-9972, described in WO 2006/098952 or US-A 2006-230473); Event 40416 (corn, insect control - herbicide tolerance, deposited as ATCC PTA-11508, described in WO 2011/075593); Event 43A47 (corn, insect control - herbicide tolerance, deposited as ATCC PTA-11509, described in WO 2011/075595); Event 5307 (corn, insect control, deposited as ATCC PTA-9561, described in WO 2010/077816); Event ASR-368 (bent grass, herbicide tolerance, deposited as ATCC PTA-4816, described in US-A 2006-162007 or WO 2004/053062); Event B16 (corn, herbicide tolerance, not deposited, described in US-A 2003-126634); Event BPS-CV127-9 (soybean, herbicide tolerance, deposited as NCIMB No. 41603, described in WO 2010/080829); Event CE43-67B (cotton, insect control, deposited as DSM ACC2724, described in US-A 2009-217423 or WO2006/128573); Event CE44-69D (cotton, insect control, not deposited, described in US-A 2010-0024077); Event CE44-69D (cotton, insect control, not deposited, described in WO 2006/128571); Event CE46-02A (cotton, insect control, not deposited, described in WO 2006/128572); Event COT102 (cotton, insect control, not deposited, described in US-A 2006-130175 or WO 2004/039986); Event COT202 (cotton, insect control, not deposited, described in US-A 2007-067868 or WO 2005/054479); Event COT203 (cotton, insect control, not deposited, described in WO 2005/054480); Event DAS40278 (corn, herbicide tolerance, deposited as ATCC PTA-10244, described in WO 2011/022469); Event DAS-59122-7 (corn, insect control - herbicide tolerance, deposited as ATCC PTA 11384 , described in US-A 2006-070139); Event DAS-59132 (corn, insect control - herbicide tolerance, not deposited, described in WO 2009/100188); Event DAS68416 (soybean, herbicide tolerance, deposited as ATCC PTA-10442, described in WO 2011/066384 or WO 2011/066360); Event DP-098140-6 (corn, herbicide tolerance,

deposited as ATCC PTA-8296, described in US-A 2009-137395 or WO 2008/112019); Event DP-305423-1 (soybean, quality trait, not deposited, described in US-A 2008-312082 or WO 2008/054747); Event DP-32138-1 (corn, hybridization system, deposited as ATCC PTA-9158, described in US-A 2009-0210970 or WO 2009/103049); Event DP-356043-5 (soybean, herbicide tolerance, deposited as ATCC PTA-8287, described in US-A 2010-0184079 or WO 2008/002872); Event EE-1 (brinjal, insect control, not deposited, described in WO 2007/091277); Event FI117 (corn, herbicide tolerance, deposited as ATCC 209031, described in US-A 2006-059581 or WO 98/044140); Event GA21 (corn, herbicide tolerance, deposited as ATCC 209033, described in US-A 2005-086719 or WO 98/044140); Event GG25 (corn, herbicide tolerance, deposited as ATCC 209032, described in US-A 2005-188434 or WO 98/044140); Event GHB119 (cotton, insect control - herbicide tolerance, deposited as ATCC PTA-8398, described in WO 2008/151780); Event GHB614 (cotton, herbicide tolerance, deposited as ATCC PTA-6878, described in US-A 2010-050282 or WO 2007/017186); Event GJ11 (corn, herbicide tolerance, deposited as ATCC 209030, described in US-A 2005-188434 or WO 98/044140); Event GM RZ13 (sugar beet, virus resistance , deposited as NCIMB-41601, described in WO 2010/076212); Event H7-1 (sugar beet, herbicide tolerance, deposited as NCIMB 41158 or NCIMB 41159, described in US-A 2004-172669 or WO 2004/074492); Event JOPLIN1 (wheat, disease tolerance, not deposited, described in US-A 2008-064032); Event LL27 (soybean, herbicide tolerance, deposited as NCIMB41658, described in WO 2006/108674 or US-A 2008-320616); Event LL55 (soybean, herbicide tolerance, deposited as NCIMB 41660, described in WO 2006/108675 or US-A 2008-196127); Event LLcotton25 (cotton, herbicide tolerance, deposited as ATCC PTA-3343, described in WO 03/013224 or US-A 2003-097687); Event LLRICE06 (rice, herbicide tolerance, deposited as ATCC-23352, described in US 6,468,747 or WO 00/026345); Event LLRICE601 (rice, herbicide tolerance, deposited as ATCC PTA-2600, described in US-A 2008-2289060 or WO 00/026356); Event LY038 (corn, quality trait, deposited as ATCC PTA-5623, described in US-A 2007-028322 or WO 2005/061720); Event MIR162 (corn, insect control, deposited as PTA-8166, described in US-A 2009-300784 or WO 2007/142840); Event MIR604 (corn, insect control, not deposited, described in US-A 2008-167456 or WO 2005/103301); Event MON15985 (cotton, insect control, deposited as ATCC PTA-2516, described in US-A 2004-250317 or WO 02/100163); Event MON810 (corn, insect control, not deposited, described in US-A 2002-102582); Event MON863 (corn, insect control, deposited as ATCC PTA-2605, described in WO 2004/011601 or US-A 2006-095986); Event MON87427 (corn, pollination control, deposited as ATCC PTA-7899, described in WO 2011/062904); Event MON87460 (corn, stress tolerance, deposited as ATCC PTA-8910, described in WO 2009/111263 or US-A 2011-0138504); Event MON87701 (soybean, insect control, deposited as ATCC PTA-8194, described in US-A 2009-130071 or WO 2009/064652); Event MON87705 (soybean, quality trait - herbicide tolerance, deposited as ATCC PTA-9241, described in US-A 2010-0080887 or WO 2010/037016); Event MON87708 (soybean, herbicide tolerance, deposited as ATCC PTA9670, described in WO 2011/034704); Event MON87754 (soybean, quality trait, deposited as ATCC PTA-9385, described in WO 2010/024976); Event MON87769 (soybean, quality trait, deposited as ATCC PTA-8911, described in US-A 2011-0067141 or WO 2009/102873); Event MON88017 (corn, insect control - herbicide tolerance, deposited as ATCC PTA-5582, described in US-A 2008-028482 or WO

2005/059103); Event MON88913 (cotton, herbicide tolerance, deposited as ATCC PTA-4854, described in WO 2004/072235 or US-A 2006-059590); Event MON89034 (corn, insect control, deposited as ATCC PTA-7455, described in WO 2007/140256 or US-A 2008-260932); Event MON89788 (soybean, herbicide tolerance, deposited as ATCC PTA-6708, described in US-A 2006-282915 or WO 2006/130436); Event MS11 (oilseed rape, pollination control - herbicide tolerance, deposited as ATCC PTA-850 or PTA-2485, described in WO 01/031042); Event MS8 (oilseed rape, pollination control - herbicide tolerance, deposited as ATCC PTA-730, described in WO 01/041558 or US-A 2003-188347); Event NK603 (corn, herbicide tolerance, deposited as ATCC PTA-2478, described in US-A 2007-292854); Event PE-7 (rice, insect control, not deposited, described in WO 2008/114282); Event RF3 (oilseed rape, pollination control - herbicide tolerance, deposited as ATCC PTA-730, described in WO 01/041558 or US-A 2003-188347); Event RT73 (oilseed rape, herbicide tolerance, not deposited, described in WO 02/036831 or US-A 2008-070260); Event T227-1 (sugar beet, herbicide tolerance, not deposited, described in WO 02/44407 or US-A 2009-265817); Event T25 (corn, herbicide tolerance, not deposited, described in US-A 2001-029014 or WO 01/051654); Event T304-40 (cotton, insect control - herbicide tolerance, deposited as ATCC PTA-8171, described in US-A 2010-077501 or WO 2008/122406); Event T342-142 (cotton, insect control, not deposited, described in WO 2006/128568); Event TC1507 (corn, insect control - herbicide tolerance, not deposited, described in US-A 2005-039226 or WO 2004/099447); Event VIP1034 (corn, insect control - herbicide tolerance, deposited as ATCC PTA-3925., described in WO 03/052073), Event 32316 (corn,insect control-herbicide tolerance,deposited as PTA-11507, described in WO 2011/084632), Event 4114 (corn,insect control-herbicide tolerance,deposited as PTA-11506, described in WO 2011/084621).

The composition according to the invention can also be used against fungal diseases liable to grow on or inside timber. The term “timber” means all types of species of wood and all types of working of this wood intended for construction, for example solid wood, high-density wood, laminated wood and plywood. The method for treating timber according to the invention mainly consists in contacting one or more compounds according to the invention or a composition according to the invention; this includes for example direct application, spraying, dipping, injection or any other suitable means.

Among the diseases of plants or crops that can be controlled by the method according to the invention, mention can be made of :

Powdery mildew diseases such as :

Blumeria diseases, caused for example by *Blumeria graminis* ;

Podosphaera diseases, caused for example by *Podosphaera leucotricha* ;

Sphaerotheca diseases, caused for example by *Sphaerotheca fuliginea* ;

Uncinula diseases, caused for example by *Uncinula necator* ;

Rust diseases such as :

Gymnosporangium diseases, caused for example by *Gymnosporangium sabinae* ;

Hemileia diseases, caused for example by *Hemileia vastatrix* ;

Phakopsora diseases, caused for example by *Phakopsora pachyrhizi* or *Phakopsora meibomiae* ;

Puccinia diseases, caused for example by *Puccinia recondita* ;

Uromyces diseases, caused for example by *Uromyces appendiculatus* ;

Oomycete diseases such as :

Bremia diseases, caused for example by *Bremia lactucae* ;

Peronospora diseases, caused for example by *Peronospora pisi* or *P. brassicae* ;

Phytophthora diseases, caused for example by *Phytophthora infestans* ;

Plasmopara diseases, caused for example by Pla*smopara viticola* ;

Pseudoperonospora diseases, caused for example by *Pseudoperonospora humuli* or *Pseudoperonospora cubensis* ;

Pythium diseases, caused for example by *Pythium ultimum* ;

Leafspot, leaf blotch and leaf blight diseases such as :

Alternaria diseases, caused for example by *Alternaria solani* ;

Cercospora diseases, caused for example by *Cercospora beticola* ;

Cladiosporum diseases, caused for example by *Cladiosporium cucumerinum* ;

Cochliobolus diseases, caused for example by *Cochliobolus sativus* ;

Colletotrichum diseases, caused for example by *Colletotrichum lindemuthanium* ;

Cycloconium diseases, caused for example by *Cycloconium oleaginum* ;

Diaporthe diseases, caused for example by *Diaporthe citri* ;

Elsinoe diseases, caused for example by *Elsinoe fawcettii* ;

Gloeosporium diseases, caused for example by *Gloeosporium laeticolor* ;

Glomerella diseases, caused for example by *Glomerella cingulata* ;

Guignardia diseases, caused for example by *Guignardia bidwelli* ;

Leptosphaeria diseases, caused for example by *Leptosphaeria maculans* ; *Leptosphaeria nodorum* ;

Magnaporthe diseases, caused for example by *Magnaporthe grisea* ;

Mycosphaerella diseases, caused for example by *Mycosphaerella graminicola* ; Mycosphaerella arachidicola ; *Mycosphaerella fijiensis* ;

Phaeosphaeria diseases, caused for example by *Phaeosphaeria nodorum* ;

Pyrenophora diseases, caused for example by *Pyrenophora teres* ;

Ramularia diseases, caused for example by *Ramularia collo-cygni* ;

Rhynchosporium diseases, caused for example by *Rhynchosporium secalis* ;

Septoria diseases, caused for example by *Septoria apii* or *Septoria lycopercisi* ;

Typhula diseases, caused for example by *Typhula incarnata* ;

Venturia diseases, caused for example by *Venturia inaequalis* ;

Root and stem diseases such as :

Corticium diseases, caused for example by *Corticium graminearum* ;

Fusarium diseases, caused for example by *Fusarium oxysporum* ;

Gaeumannomyces diseases, caused for example by *Gaeumannomyces graminis* ;

Rhizoctonia diseases, caused for example by *Rhizoctonia solani* ;

Tapesia diseases, caused for example by *Tapesia acuformis* ;

Thielaviopsis diseases, caused for example by *Thielaviopsis basicola* ;

Ear and panicle diseases such as :

Alternaria diseases, caused for example by *Alternaria spp.* ;

Aspergillus diseases, caused for example by *Aspergillus flavus* ;

Cladosporium diseases, caused for example by *Cladosporium spp.* ;

Claviceps diseases, caused for example by *Claviceps purpurea* ;

Fusarium diseases, caused for example by *Fusarium culmorum* ;

Gibberella diseases, caused for example by *Gibberella zeae* ;

Monographella diseases, caused for example by *Monographella nivalis* ;

Smut and bunt diseases such as :

Sphacelotheca diseases, caused for example by *Sphacelotheca reiliana* ;

Tilletia diseases, caused for example by *Tilletia caries* ;

Urocystis diseases, caused for example by *Urocystis occulta* ;

Ustilago diseases, caused for example by *Ustilago nuda* ;

Fruit rot and mould diseases such as :

Aspergillus diseases, caused for example by *Aspergillus flavus* ;

Botrytis diseases, caused for example by *Botrytis cinerea* ;

Penicillium diseases, caused for example by *Penicillium expansum* ;

Sclerotinia diseases, caused for example by *Sclerotinia sclerotiorum* ;

Verticilium diseases, caused for example by *Verticilium alboatrum* ;

Seed and soilborne decay, mould, wilt, rot and damping-off diseases :

Alternaria diseases, caused for example by *Alternaria brassicicola*

Aphanomyces diseases, caused for example by *Aphanomyces euteiches*

Ascochyta diseases, caused for example by *Ascochyta lentis*

Aspergillus diseases, caused for example by *Aspergillus flavus*

Cladosporium diseases, caused for example by *Cladosporium herbarum*

Cochliobolus diseases, caused for example by *Cochliobolus sativus*

(Conidiaform: *Drechslera, Bipolaris Syn: Helminthosporium*);

Colletotrichum diseases, caused for example by *Colletotrichum coccodes*;

Fusarium diseases, caused for example by *Fusarium culmorum*;

Gibberella diseases, caused for example by *Gibberella zeae*;

Macrophomina diseases, caused for example by *Macrophomina* phaseolina

Monographella diseases, caused for example by *Monographella nivalis*;

Penicillium diseases, caused for example by *Penicillium expansum*

Phoma diseases, caused for example by *Phoma lingam*

Phomopsis diseases, caused for example by *Phomopsis sojae*;

Phytophthora diseases, caused for example by Phytophthora cactorum;

Pyrenophora diseases, caused for example by *Pyrenophora graminea*

Pyricularia diseases, caused for example by *Pyricularia oryzae*;

Pythium diseases, caused for example by *Pythium ultimum*;

Rhizoctonia diseases, caused for example by *Rhizoctonia solani*;
Rhizopus diseases, caused for example by *Rhizopus oryzae*
Sclerotium diseases, caused for example by *Sclerotium rolfsii*;
Septoria diseases, caused for example by *Septoria nodorum*;
Typhula diseases, caused for example by *Typhula incarnata*;
Verticillium diseases, caused for example by *Verticillium dahliae* ;

Canker, broom and dieback diseases such as :

Nectria diseases, caused for example by *Nectria galligena* ;

Blight diseases such as :

Monilinia diseases, caused for example by *Monilinia laxa* ;

Leaf blister or leaf curl diseases such as :

Taphrina diseases, caused for example by *Taphrina deformans* ;

Decline diseases of wooden plants such as :

Esca diseases, caused for example by *Phaemoniella clamydospora* ;
Eutypa dyeback, caused for example by *Eutypa lata* ;
Dutch elm disease, caused for example by *Ceratocystsc ulmi* ;

Diseases of flowers and Seeds such as :

Botrytis diseases, caused for example by *Botrytis cinerea* ;

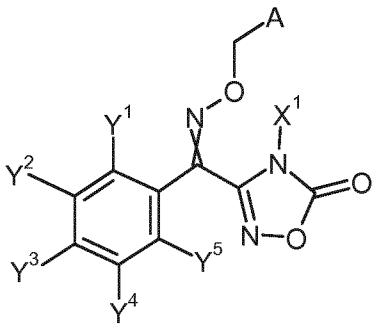
Diseases of tubers such as :

Rhizoctonia diseases, caused for example by *Rhizoctonia solani*
Helminthosporium diseases, caused for example by *Helminthosporium solani*.

The compounds according to the invention can also be used for the preparation of composition useful to curatively or preventively treat human or animal fungal diseases such as, for example, mycoses, dermatoses, trichophyton diseases and candidiases or diseases caused by *Aspergillus spp.*, for example *Aspergillus fumigatus*.

The various aspects of the invention will now be illustrated with reference to the following table 1 of compound examples and the following preparation or efficacy examples.

The following table 1 illustrates in a non limiting manner examples of compounds according to the invention.



(I)

In table 1 we use the following abbreviations for specified claimed elements “A1” and “A2” of the generic structure (I) of the invention:

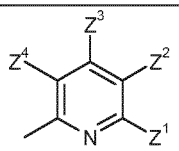
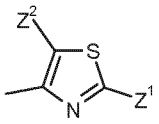
 A1	 A2

Table 1

Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
1	H	H	H	H	H	CH_3	A1	amino	H	H	H	Z	1,14[a]
2	H	H	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,44[a]
3	H	H	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,27[a]
4	H	H	H	H	H	CH_3	A2	amino	H			Z	1,54[a]
5	H	H	H	H	H	CH_3	A1	[(2-cyclohexylethoxy)carbonyl]amino	H	H	H	Z	5,27[a]
6	H	H	H	H	H	CH_3	A1	[(pent-4-en-1-yloxy)carbonyl]amino	H	H	H	Z	4,06[a]
7	H	H	H	H	H	CH_3	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,15[a]
8	H	H	H	H	H	CH_3	A1	heptanoylamino	H	H	H	Z	4,3[a]
9	H	H	H	H	H	CH_3	A2	heptanoylamino	H			Z	4,13[a]
10	H	H	H	H	H	CH_3	A2	(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)amino	H			Z	3,62[a]
11	H	H	H	H	H	CH_3	A2	(3,4-dihydro-2H-chromen-2-ylcarbonyl)amino	H			Z	3,94[a]
12	H	H	H	H	H	CH_3	A2	[(pentyloxy)carbonyl]amino	H			Z	4,11[a]
13	H	H	H	H	H	CH_3	A2	pentanoylamino	H			Z	3,37[a]
14	H	H	H	H	H	CH_3	A2	(butoxycarbonyl)amino	H			Z	3,73[a]
15	H	H	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,51[a]
16	H	H	H	H	H	CH_3	A1	[(cyclopentylmethoxy)carbonyl]amino	H	H	H	Z	4,53[a]
17	H	H	H	H	H	CH_3	A1	(3-fluorobenzoyl)amino	H	H	H	Z	3,69[a]
18	H	H	H	H	H	CH_3	A1	(butoxycarbonyl)amino	H	H	H	Z	4,04[a]
19	H	H	H	H	H	CH_3	A2	(2-phenoxypropanoyl)amino	H			Z	3,71[a]
20	H	H	H	H	H	CH_3	A2	(3-fluorobenzoyl)amino	H			Z	3,6[a]
21	H	H	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,96[a]
22	H	H	H	H	H	H	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,09[a]
23	H	H	H	H	H	H	A1	amino	H	H	H	Z	1,36[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
24	H	H	H	H	H	H	A2	amino	H			Z	1,58[a
25	H	H	H	H	H	CH_3	A1	amino	H	H	H	E	1,14[a
26	H	H	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	E	4,24[a
27	H	H	H	H	H	CH_3	A2	(2-fluorobenzoyl)amino	H			Z	3,44[a
28	H	H	H	H	H	CH_3	A2	[(2-fluorophenoxy)acetyl]amino	H			Z	3,51[a]
29	H	H	H	H	H	CH_3	A1	[(2-chlorophenyl)acetyl]amino	H	H	H	Z	3,76[a]
30	H	CH_3	H	H	H	CH_3	A1	amino	H	H	H	Z	1,45[a]
31	H	H	H	H	H	CH_3	A1	[(2-methoxyphenoxy)acetyl]amino	H	H	H	Z	3,8[a]
32	H	H	H	H	H	CH_3	A1	octanoylamino	H	H	H	Z	4,71[a]
33	H	H	H	H	H	CH_3	A1	(propoxycarbonyl)amino	H	H	H	Z	3,62[a]
34	H	H	H	H	H	CH_3	A1	(4-chlorobutanoyl)amino	H	H	H	Z	3,27[a]
35	H	H	H	H	H	CH_3	A1	(cyclopropylcarbonyl)amino	H	H	H	Z	2,92[a]
36	H	methoxy	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,46[a]
37	H	H	H	H	H	CH_3	A1	hept-6-ynoylamino	H	H	H	Z	3,37[a]
38	H	H	H	H	H	CH_3	A2	[(4-fluorophenoxy)acetyl]amino	H			Z	3,53[a]
39	H	H	H	H	H	CH_3	A1	{[(2-methylpent-4-yn-2-yl)oxy]carbonyl}amino	H	H	H	Z	3,94[a]
40	H	H	H	H	H	CH_3	A1	[(1-methylcyclohexyl)carbonyl]amino	H	H	H	Z	4,36[a]
41	H	H	CH_3	H	H	CH_3	A2	[(pentyloxy)carbonyl]amino	H			Z	4,41[a]
42	H	fluoro	H	H	H	CH_3	A1	(3-fluorobenzoyl)amino	H	H	H	Z	3,79[a]
43	H	H	H	H	H	CH_3	A1	(1-phenylethyl)amino	H	H	H	Z	2,86[a
44	H	H	H	H	H	CH_3	A1	(3-methoxybenzoyl)amino	H	H	H	Z	3,62[a
45	H	H	H	H	H	CH_3	A1	{[(4-methylpentyl)oxy]carbonyl}amino	H	H	H	Z	4,81[a
46	H	H	H	H	H	CH_3	A1	(diphenylacetyl)amino	H	H	H	Z	4,48[a
47	H	H	H	H	H	CH_3	A2	[(3-methylbutoxy)carbonyl]amino	H			Z	4,06[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
48	H	H	H	H	H	CH_3	A1	(3-ethoxypropanoyl)amino	H	H	H	Z	2,96[a]
49	H	H	H	H	H	CH_3	A1	{[2-(3-bromophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,61[a]
50	H	H	H	H	H	CH_3	A2	[2-(3-methoxyphenoxy)propanoyl]amino	H			Z	3,71[a]
51	H	H	H	H	H	CH_3	A1	[(3-methoxyphenoxy)acetyl]amino	H	H	H	Z	3,73[a]
52	H	H	H	H	H	CH_3	A1	acetylamino	H	H	H	Z	2,44[a]
53	H	H	H	H	H	CH_3	A2	[(hexyloxy)carbonyl]amino	H			Z	4,51[a]
54	H	H	H	H	H	CH_3	A1	(phenylcarbonyl)amino	H	H	H	Z	3,51[a]
55	H	H	H	H	H	CH_3	A2	[(4-bromophenoxy)acetyl]amino	H			Z	3,94[a]
56	H	H	H	H	H	CH_3	A1	{[(3-methylpentyl)oxy]carbonyl}amino	H	H	H	Z	4,78[a]
57	H	H	H	H	H	CH_3	A2	(2-chlorobenzoyl)amino	H			Z	3,46[a]
58	H	H	H	H	H	difluoromethyl	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,64[a]
59	H	H	H	H	H	CH_3	A1	(4,4-dimethylpentanoyl)amino	H	H	H	Z	4,15[a]
60	H	H	H	H	H	CH_3	A1	{[(1-phenylpropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,49[a]
61	H	H	H	H	H	ethyl	A1	[(cyclohexyloxy)carbonyl]amino	H	H	H	Z	4,77[a]
62	H	H	H	H	H	CH_3	A1	(3-cyclopropylpropanoyl)amino	H	H	H	Z	3,51[a]
63	H	H	H	H	H	CH_3	A1	(3-chloropropanoyl)amino	H	H	H	Z	3,02[a]
64	H	H	H	H	H	CH_3	A1	[2-(3-chlorophenoxy)propanoyl]amino	H	H	H	Z	4,38[a]
65	H	H	H	H	H	CH_3	A1	[(4-bromophenoxy)acetyl]amino	H	H	H	Z	4,2[a]
66	H	H	H	H	H	CH_3	A1	[(4-fluorophenoxy)acetyl]amino	H	H	H	Z	3,73[a]
67	H	H	H	H	H	CH_3	A1	4-[5-(pyridinium-1-yl)pentanoyl]amino formate	H	H	H	Z	1,67[a]
68	H	H	H	H	H	CH_3	A1	[(1-phenylethoxy)carbonyl]amino	H	H	H	Z	4,23[a]
69	H	H	H	H	H	CH_3	A1	[2-(3-methoxyphenoxy)propanoyl]amino	H	H	H	Z	3,97[a]
70	H	H	H	H	H	cyanomethyl	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,31[a]
71	H	H	H	H	H	CH_3	A1	propanoylamino	H	H	H	Z	2,77[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
72	H	H	H	H	H	CH_3	A2	[(2,2-dimethylpropoxy)carbonyl]amino	H			Z	4,01[a]
73	H	H	H	H	H	CH_3	A1	(5-bromopentanoyl)amino	H	H	H	Z	3,59[a]
74	H	H	H	H	H	CH_3	A1	(2-phenylethyl)amino	H	H	H	Z	2,78[a]
75	H	H	H	H	H	CH_3	A2	(phenoxycarbonyl)amino	H			Z	3,48[a]
76	H	H	H	H	H	CH_3	A1	[(2-methylphenoxy)acetyl]amino	H	H	H	Z	4,17[a]
77	H	H	H	H	H	CH_3	A1	(3-cyclohexylpropanoyl)amino	H	H	H	Z	4,73[a]
78	H	H	H	H	H	CH_3	A1	(bicyclo[2.2.1]hept-2-ylacetyl)amino	H	H	H	Z	4,39[a]
79	H	H	H	H	H	CH_3	A1	[(2-methyl-2-phenylpropoxy)carbonyl]amino	H	H	H	Z	4,71[a]
80	H	H	H	H	H	CH_3	A2	[2-(3-methylphenoxy)propanoyl]amino	H			Z	3,99[a]
81	H	H	H	H	H	CH_3	A2	(2-bromobenzoyl)amino	H			Z	3,51[a]
82	H	H	H	H	H	CH_3	A2	[2-(2-methylphenoxy)propanoyl]amino	H			Z	4,12[a]
83	H	fluoro	H	H	H	CH_3	A1	amino	H	H	H	Z	1,34[a]
84	H	H	H	H	H	CH_3	A1	(3-cyclopentylpropanoyl)amino	H	H	H	Z	4,36[a]
85	H	H	H	H	H	CH_3	A1	(3,4-dihydro-1H-isochromen-3-ylcarbonyl)amino	H	H	H	Z	4,17[a]
86	H	H	H	H	H	prop-2-yn-1-yl	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,46[a]
87	H	CH_3	H	H	H	CH_3	A1	bis(tert-butoxycarbonyl)amino	H	H	H	Z	4,77[a]
88	H	H	H	H	H	ethyl	A1	[(4-methoxyphenyl)acetyl]amino	H	H	H	Z	3,7[a]
89	H	H	H	H	H	CH_3	A1	{[2-(4-fluorophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,19[a]
90	H	H	H	H	chloro	CH_3	A2	amino	H			Z	1,72[a]
91	H	H	H	H	H	CH_3	A2	(2-methoxybenzoyl)amino	H			Z	3,71[a]
92	H	fluoro	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,39[a]
93	H	H	H	H	H	CH_3	A1	(2-butoxypropanoyl)amino	H	H	H	Z	4,3[a]
94	H	H	H	H	H	CH_3	A1	[(cyclopentyloxy)acetyl]amino	H	H	H	Z	4,04[a]
95	H	H	H	H	H	CH_3	A1	(5-methylhexanoyl)amino	H	H	H	Z	4,25[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
96	H	H	H	H	H	H	A1	amino	H	H	H	U	1,2[a]
97	fluoro	H	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,92[a]
98	H	H	H	H	H	CH_3	A1	nonanoylamino	H	H	H	Z	5,11[a]
99	H	H	H	H	H	CH_3	A1	oct-7-enoylamino	H	H	H	Z	4,3[a]
100	H	H	H	H	H	CH_3	A2	[(3-fluorophenoxy)acetyl]amino	H			Z	3,58[a]
101	H	methoxy	H	H	H	CH_3	A1	[(4-methoxyphenyl)acetyl]amino	H	H	H	Z	3,51[a]
102	H	H	H	H	H	CH_3	A1	(4-methylpentanoyl)amino	H	H	H	Z	3,85[a]
103	H	H	H	H	H	CH_3	A2	[(cyclopentyloxy)carbonyl]amino	H			Z	3,76[a]
104	H	H	H	H	H	ethyl	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,51[a]
105	H	H	H	H	H	CH_3	A1	[(3-chlorophenoxy)acetyl]amino	H	H	H	Z	4,1[a]
106	H	H	H	H	H	CH_3	A1	{[2-(2-chlorophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,56[a]
107	H	H	H	H	H	CH_3	A1	[(hexyloxy)carbonyl]amino	H	H	H	Z	4,85[a]
108	H	methoxy	H	H	H	CH_3	A1	amino	H	H	H	Z	1,32[a]
109	H	H	H	H	H	CH_3	A1	[(prop-2-en-1-yloxy)carbonyl]amino	H	H	H	Z	3,42[a]
110	H	H	H	H	H	CH_3	A1	[(cyclopentyloxy)carbonyl]amino	H	H	H	Z	4,09[a]
111	H	H	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	3,89[a]
112	H	methoxy	H	H	H	CH_3	A1	[(cyclohexyloxy)carbonyl]amino	H	H	H	Z	4,49[a]
113	H	H	H	H	H	CH_3	A2	[2-(2-bromophenoxy)propanoyl]amino	H			Z	4,2[a]
114	H	H	H	H	H	CH_3	A1	(2-fluorobenzoyl)amino	H	H	H	Z	3,73[a]
115	H	H	H	H	H	CH_3	A1	[2-(2-methoxyphenoxy)propanoyl]amino	H	H	H	Z	4,15[a]
116	H	H	H	H	H	CH_3	A1	(cyclohexylmethyl)amino	H	H	H	Z	3,02[a]
117	H	CH_3	H	H	H	CH_3	A1	[(benzyloxy)carbonyl]amino	H	H	H	Z	4,31[a]
118	H	H	H	H	H	CH_3	A1	(cyclobutylcarbonyl)amino	H	H	H	Z	3,27[a]
119	H	H	H	H	H	CH_3	A1	{[(1-methoxy-1-oxopropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	3,17[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
120	H	H	H	H	H	CH_3	A1	{[(2-methylbutan-2-yl)oxy]carbonyl}amino	H	H	H	Z	1,99[a]
121	H	CH_3	H	H	H	H	A1	amino	H	H	H	U	1,47[a]
122	H	H	H	H	H	CH_3	A1	{[(5,5,5-trifluoropentyl)oxy]carbonyl}amino	H	H	H	Z	4,06[a]
123	H	H	H	H	H	CH_3	A2	[(2,4-dichlorophenoxy)acetyl]amino	H			Z	4,23[a]
124	H	H	H	H	H	CH_3	A1	(2-ethylbutanoyl)amino	H	H	H	Z	3,71[a]
125	H	H	H	H	H	CH_3	A1	[(2-fluorophenoxy)acetyl]amino	H	H	H	Z	3,76[a]
126	H	H	H	H	H	CH_3	A2	[2-(benzyloxy)propanoyl]amino	H			Z	3,85[a]
127	H	H	H	H	H	ethyl	A1	[(pent-4-yn-2-yloxy)carbonyl]amino	H	H	H	Z	3,81[a]
128	H	H	H	H	H	CH_3	A1	[2-(3-methylphenoxy)propanoyl]amino	H	H	H	Z	4,35[a]
129	H	fluoro	H	H	H	H	A1	amino	H	H	H	U	1,35[a]
130	H	H	H	H	H	ethyl	A1	(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)amino	H	H	H	Z	4,14[a]
131	H	methoxy	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,99[a]
132	H	H	H	H	H	CH_3	A1	(2-methylbutanoyl)amino	H	H	H	Z	3,41[a]
133	H	H	H	H	H	CH_3	A1	{[2-(2-methylphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,51[a]
134	H	H	H	H	H	CH_3	A1	2-furoylamino	H	H	H	Z	3,13[a]
135	H	H	H	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,76[a]
136	H	H	H	H	H	CH_3	A1	{(2E)-2-[(benzyloxy)imino]ethyl}amino	H	H	H	Z	3,35[a]
137	H	H	H	H	H	CH_3	A1	[(1-methylcyclopropyl)carbonyl]amino	H	H	H	Z	3,31[a]
138	H	H	H	H	H	CH_3	A1	(phenoxycarbonyl)amino	H	H	H	Z	3,73[a]
139	H	fluoro	H	H	H	CH_3	A1	(2,2-dimethylpropanoyl)amino	H	H	H	Z	3,61[a]
140	H	fluoro	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,61[a]
141	H	methoxy	H	H	H	CH_3	A1	bis(tert-butoxycarbonyl)amino	H	H	H	Z	4,44[a]
142	H	CH_3	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	4,34[a]
143	H	H	H	H	H	CH_3	A2	(3-iodobenzoyl)amino	H			Z	4,19[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
144	H	H	H	H	H	CH_3	A1	(4-methylbenzoyl)amino	H	H	H	Z	3,85[a
145	H	H	H	H	H	CH_3	A1	[(2-phenylpropoxy)carbonyl]amino	H	H	H	Z	4,46[a
146	H	H	H	H	H	CH_3	A1	[(3S,5S,7S)-adamantan-1-ylacetyl]amino	H	H	H	Z	5,08[a
147	H	H	H	H	H	CH_3	A1	(cyclohexylcarbonyl)amino	H	H	H	Z	3,92[a
148	H	H	H	H	H	CH_3	A1	(2,2-dimethylpropanoyl)amino	H	H	H	Z	3,48[a]
149	H	methoxy	H	H	H	CH_3	A1	{[(4-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,72[a]
150	H	fluoro	H	H	H	CH_3	A2	[(pentyloxy)carbonyl]amino	H			Z	4,19[a]
151	H	H	H	H	H	CH_3	A1	{[2-(3-methoxyphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,11[a]
152	H	H	H	H	H	ethyl	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	4,26[a]
153	H	H	H	H	H	CH_3	A1	(4-methylpent-3-enoyl)amino	H	H	H	Z	3,59[a]
154	H	H	H	H	H	CH_3	A2	(2,2-dimethylpropanoyl)amino	H			Z	3,42[a]
155	H	H	H	H	H	CH_3	A2	[2-(3-bromophenoxy)propanoyl]amino	H			Z	4,17[a]
156	H	H	H	H	H	CH_3	A1	[2-(benzyloxy)propanoyl]amino	H	H	H	Z	4,15[a]
157	H	H	methoxy	H	H	CH_3	A1	amino	H	H	H	Z	1,35[a]
158	H	H	H	H	H	CH_3	A2	(2-iodobenzoyl)amino	H			Z	3,6[a]
159	H	H	H	H	H	CH_3	A2	[(2-bromophenoxy)acetyl]amino	H			Z	3,89[a]
160	H	H	H	H	H	CH_3	A2	(2,2-dimethylhexanoyl)amino	H			Z	4,48[a]
161	H	H	fluoro	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,51[a]
162	H	H	H	H	H	CH_3	A1	[(tert-butylsulfanyl)carbonyl]amino	H	H	H	Z	4,39[a]
163	H	H	H	H	H	CH_3	A1	hexylamino	H	H	H	Z	2,64[a
164	H	H	H	H	H	CH_3	A2	[(4-chlorophenoxy)acetyl]amino	H			Z	3,85[a
165	H	H	H	H	H	CH_3	A1	[(1-phenylcyclopropyl)carbonyl]amino	H	H	H	Z	4,43[a
166	H	H	H	H	H	CH_3	A1	[3-(1-methylcyclopropyl)propanoyl]amino	H	H	H	Z	3,87[a
167	H	H	H	H	H	CH_3	A1	hept-6-enoylamino	H	H	H	Z	3,89[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
168	H	H	H	H	H	CH_3	A1	[(benzyloxy)carbonyl]amino	H	H	H	Z	3,99[a]
169	H	H	CH_3	H	H	CH_3	A2	pentanoylamino	H			Z	3,7[a]
170	H	H	H	H	H	CH_3	A1	(3-methyl-2-furoyl)amino	H	H	H	Z	3,71[a]
171	H	H	H	H	H	CH_3	A2	[(2-methoxyphenoxy)acetyl]amino	H			Z	3,55[a]
172	H	H	H	H	H	ethyl	A1	(2-methylpentanoyl)amino	H	H	H	Z	4,06[a]
173	H	H	H	H	H	CH_3	A1	(3,3-dimethylbutanoyl)amino	H	H	H	Z	3,78[a]
174	H	H	H	H	H	CH_3	A1	(4-iodobenzoyl)amino	H	H	H	Z	4,29[a]
175	H	H	H	H	H	CH_3	A1	{[2-(2-methoxyphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,31[a]
176	H	H	H	H	H	ethyl	A1	pentanoylamino	H	H	H	Z	3,76[a]
177	H	H	H	H	H	CH_3	A1	isobutyrylamino	H	H	H	Z	3,11[a]
178	H	H	H	H	H	CH_3	A1	(2-chlorobenzoyl)amino	H	H	H	Z	3,64[a]
179	H	H	H	H	H	CH_3	A1	[2-(3-bromophenoxy)propanoyl]amino	H	H	H	Z	4,46[a]
180	H	H	H	H	H	CH_3	A2	(4-methylbenzoyl)amino	H			Z	3,76[a]
181	H	H	H	H	H	CH_3	A1	(2-methoxybenzoyl)amino	H	H	H	Z	3,87[a]
182	H	H	H	H	H	CH_3	A1	[(3-methylbutoxy)carbonyl]amino	H	H	H	Z	4,39[a]
183	H	H	H	H	H	CH_3	A1	(butoxycarbothioyl)amino	H	H	H	Z	4,53[a]
184	H	H	H	H	H	CH_3	A1	[3-(2-methoxyphenyl)propanoyl]amino	H	H	H	Z	3,87[a]
185	H	H	methoxy	H	H	CH_3	A1	{[(4-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,72[a]
186	H	H	H	H	H	CH_3	A1	{[2-(2-fluorophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,21[a]
187	H	H	H	H	H	CH_3	A1	(4-bromobenzoyl)amino	H	H	H	Z	4,14[a]
188	H	H	H	H	H	CH_3	A1	[3-(methylsulfanyl)propanoyl]amino	H	H	H	Z	3,09[a]
189	H	H	H	H	H	CH_3	A1	[(2,2-dichloro-1-ethyl-3-methylcyclopropyl)carbonyl]amino	H	H	H	Z	4,35[a]
190	H	H	H	H	H	CH_3	A1	[(2,5-dimethoxyphenyl)acetyl]amino	H	H	H	Z	3,6[a]
191	H	H	methoxy	H	H	CH_3	A1	(trifluoroacetyl)amino	H	H	H	Z	3,37[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
192	H	H	H	H	H	CH_3	A1	[(2-ethylbutoxy)carbonyl]amino	H	H	H	Z	4,78[a]
193	fluoro	H	H	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,68[a]
194	H	H	H	H	H	CH_3	A2	[(benzyloxy)acetyl]amino	H			Z	3,6[a]
195	H	H	H	H	H	CH_3	A2	[(cyclopentyloxy)acetyl]amino	H			Z	3,73[a]
196	H	H	H	H	H	CH_3	A1	[(4-chlorophenyl)acetyl]amino	H	H	H	Z	3,92[a]
197	H	H	H	H	H	CH_3	A1	diethylamino	H	H	H	Z	2,63[a]
198	H	H	H	H	H	CH_3	A2	hexanoylamino	H			Z	3,76[a]
199	H	H	H	H	H	CH_3	A1	{[(1-ethoxypropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	3,53[a]
200	H	H	H	H	H	CH_3	A1	[(hexan-2-yloxy)carbonyl]amino	H	H	H	Z	4,78[a]
201	H	H	H	H	H	ethyl	A1	[(benzyloxy)carbonyl]amino	H	H	H	Z	4,24[a]
202	H	H	H	H	H	CH_3	A1	(3,5-difluorobenzoyl)amino	H	H	H	Z	3,92[a]
203	H	fluoro	H	H	H	CH_3	A2	(phenylacetyl)amino	H			Z	3,46[a]
204	H	H	H	H	H	CH_3	A1	[2-(4-bromophenoxy)propanoyl]amino	H	H	H	Z	4,46[a]
205	H	H	H	H	H	CH_3	A1	[(4,4,4-trifluorobutoxy)carbonyl]amino	H	H	H	Z	3,85[a]
206	H	fluoro	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	4,09[a]
207	H	H	H	H	H	ethyl	A1	[(hex-5-yn-2-yloxy)carbonyl]amino	H	H	H	Z	4,04[a]
208	H	H	H	H	H	CH_3	A1	(cyclohexylacetyl)amino	H	H	H	Z	4,26[a]
209	H	H	H	H	H	ethyl	A1	amino	H	H	H	Z	1,42[a]
210	H	H	H	H	H	CH_3	A1	{[2-(3-methylphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,53[a]
211	H	methoxy	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	3,92[a]
212	H	H	H	H	H	CH_3	A2	(3-methoxybenzoyl)amino	H			Z	3,58[a]
213	H	H	H	H	H	CH_3	A2	[(2-methylphenoxy)acetyl]amino	H			Z	3,85[a]
214	H	H	fluoro	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,78[a]
215	H	CH_3	H	H	H	CH_3	A1	(butoxycarbonyl)amino	H	H	H	Z	4,36[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
216	H	H	H	H	H	CH_3	A2	[2-(4-bromophenoxy)propanoyl]amino	H			Z	4,17[a]
217	H	H	H	H	H	CH_3	A1	(4-methoxybenzoyl)amino	H	H	H	Z	3,53[a]
218	H	H	H	H	H	CH_3	A1	[methoxy(phenyl)acetyl]amino	H	H	H	Z	3,85[a]
219	H	H	H	H	H	CH_3	A2	[2-(2-methoxyphenoxy)propanoyl]amino	H			Z	3,89[a]
220	H	H	H	H	H	CH_3	A2	[difluoro(phenoxy)acetyl]amino	H			Z	3,89[a]
221	H	H	H	H	H	CH_3	A1	(2,2-dimethylbutanoyl)amino	H	H	H	Z	3,8[a]
222	H	H	H	H	H	CH_3	A1	{[1-(2,4-dichlorophenyl)cyclopropyl]carbonyl}amino	H	H	H	Z	4,96[a]
223	H	CH_3	H	H	H	CH_3	A1	{[(4-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	5,05[a]
224	H	CH_3	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,78[a]
225	H	H	H	H	H	CH_3	A1	[(2-methylpropoxy)carbonyl]amino	H	H	H	Z	4,01[a]
226	H	H	H	H	H	CH_3	A1	[(pent-4-yn-2-yloxy)carbonyl]amino	H	H	H	Z	3,57[a]
227	H	H	H	H	H	CH_3	A1	(3,4-dihydro-1H-isochromen-1-ylcarbonyl)amino	H	H	H	Z	4,1[a]
228	H	methoxy	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,33[a]
229	H	H	H	H	H	CH_3	A2	[(4-methylphenoxy)acetyl]amino	H			Z	3,8[a]
230	H	H	H	H	H	CH_3	A1	l-4-({[(1R,2R)-2-phenylcyclopropyl]carbonyl}amino)	H	H	H	Z	4,04[a]
231	H	H	H	H	H	CH_3	A1	[2-(2-chlorophenoxy)propanoyl]amino	H	H	H	Z	4,41[a]
232	H	H	H	H	H	CH_3	A1	(2-phenoxypropanoyl)amino	H	H	H	Z	3,96[a]
233	H	H	H	H	H	CH_3	A1	{[(2-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,77[a]
234	H	fluoro	H	H	H	CH_3	A2	(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)amino	H			Z	3,7[a]
235	H	H	H	H	H	CH_3	A1	(3,7-dimethyloct-6-enoyl)amino	H	H	H	Z	4,88[a]
236	H	H	H	H	H	CH_3	A1	(1-cyclohexylpropan-2-yl)amino	H	H	H	Z	5,14[a]
237	H	H	H	H	H	CH_3	A1	(3,3,3-trifluoropropanoyl)amino	H	H	H	Z	3,19[a]
238	H	H	H	H	H	CH_3	A1	{[2-(4-bromophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,63[a]
239	H	H	H	H	H	CH_3	A2	[(benzyloxy)carbonyl]amino	H			Z	3,73[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
240	H	H	H	H	H	CH_3	A1	(butoxyacetyl)amino	H	H	H	Z	3,97[a]
241	H	H	H	H	H	CH_3	A1	{[(2-methylpropyl)sulfanyl]carbonyl}amino	H	H	H	Z	4,39[a]
242	H	H	H	H	H	CH_3	A1	[(but-3-yn-2-yloxy)carbonyl]amino	H	H	H	Z	3,41[a]
243	H	H	H	H	H	CH_3	A1	(2-bromobenzoyl)amino	H	H	H	Z	3,67[a]
244	H	H	H	H	H	CH_3	A1	(2-methylhexanoyl)amino	H	H	H	Z	4,2[a]
245	H	H	H	H	H	CH_3	A1	(4-chlorobenzoyl)amino	H	H	H	Z	4,01[a]
246	H	H	fluoro	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	4,06[a]
247	H	H	H	H	H	CH_3	A1	(5,5-dimethylhexanoyl)amino	H	H	H	Z	4,53[a]
248	H	H	H	H	H	CH_3	A1	(2-methylpentanoyl)amino	H	H	H	Z	3,8[a]
249	fluoro	fluoro	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	E	3,94[a]
250	H	CH_3	H	H	H	CH_3	A1	[(cyclohexyloxy)carbonyl]amino	H	H	H	Z	4,82[a]
251	H	H	H	H	H	CH_3	A2	(4-fluorobenzoyl)amino	H			Z	3,55[a]
252	H	H	CH_3	H	H	CH_3	A2	(phenylacetyl)amino	H			Z	3,65[a]
253	H	H	H	H	H	CH_3	A1	(2-cyclohexylethyl)amino	H	H	H	Z	2,96[a]
254	fluoro	fluoro	H	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	4,01[a]
255	H	H	H	H	H	CH_3	A1	[(2,5-difluorophenyl)acetyl]amino	H	H	H	Z	3,62[a]
256	H	H	H	H	H	CH_3	A1	pent-4-enoylamino	H	H	H	Z	3,25[a]
257	H	H	H	H	H	CH_3	A2	(phenylcarbonyl)amino	H			Z	3,44[a]
258	H	H	fluoro	H	H	CH_3	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,24[a]
259	H	H	fluoro	H	H	CH_3	A1	amino	H	H	H	Z	1,41[a]
260	H	H	H	H	H	CH_3	A1	[2-(4-chlorophenoxy)propanoyl]amino	H	H	H	Z	4,35[a]
261	H	fluoro	H	H	H	CH_3	A1	bis(tert-butoxycarbonyl)amino	H	H	H	Z	4,51[a]
262	H	H	H	H	H	CH_3	A2	(2,4-dichlorobenzoyl)amino	H			Z	3,94[a]
263	H	H	H	H	H	CH_3	A2	(3,5-difluorobenzoyl)amino	H			Z	3,8[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
264	H	H	H	H	H	CH_3	A1	(thiophen-2-ylacetyl)amino	H	H	H	Z	3,42[a]
265	H	H	H	H	H	CH_3	A2	(propoxycarbonyl)amino	H			Z	3,35[a]
266	H	H	H	H	H	CH_3	A1	butanoylamino	H	H	H	Z	3,13[a]
267	H	H	H	H	H	CH_3	A1	(4-cyclohexylbutanoyl)amino	H	H	H	Z	5,14[a]
268	H	H	H	H	H	CH_3	A1	[(6E)-8-methylnon-6-enoyl]amino	H	H	H	Z	5,06[a]
269	H	H	H	H	H	CH_3	A1	[(2-bromophenoxy)acetyl]amino	H	H	H	Z	4,25[a]
270	H	H	H	H	H	ethyl	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,41[a]
271	H	H	H	H	H	CH_3	A2	butanoylamino	H			Z	3,02[a]
272	H	CH_3	H	H	H	CH_3	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,49[a]
273	H	H	H	H	H	CH_3	A1	{[(4-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,68[a]
274	H	H	H	H	H	CH_3	A1	[(2,4-dichlorophenoxy)acetyl]amino	H	H	H	Z	4,61[a]
275	H	H	H	H	H	CH_3	A1	[2-(2-bromophenoxy)propanoyl]amino	H	H	H	Z	4,53[a]
276	H	H	H	H	H	CH_3	A2	[2-(4-chlorophenoxy)propanoyl]amino	H			Z	4,07[a]
277	H	H	H	H	H	CH_3	A1	[4-(4-chloro-2-methylphenoxy)butanoyl]amino	H	H	H	Z	4,73[a]
278	H	H	H	H	H	CH_3	A1	[(benzyloxy)acetyl]amino	H	H	H	Z	3,87[a]
279	H	H	H	H	H	CH_3	A1	(tert-butoxycarbonyl)(2-cyclohexylethyl)amino	H	H	H	Z	6,73[a]
280	H	H	H	H	H	ethyl	A1	(3-methylbutanoyl)amino	H	H	H	Z	3,7[a]
281	H	H	H	H	H	CH_3	A1	(3-iodobenzoyl)amino	H	H	H	Z	4,31[a]
282	H	H	H	H	H	CH_3	A1	[(pentan-2-yloxy)carbonyl]amino	H	H	H	Z	4,36[a]
283	H	H	H	H	H	CH_3	A1	(propoxycarbothioyl)amino	H	H	H	Z	4,11[a]
284	H	H	H	H	H	CH_3	A1	(2-ethylhexanoyl)amino	H	H	H	Z	4,49[a]
285	H	H	H	H	H	CH_3	A1	[(heptan-2-yloxy)carbonyl]amino	H	H	H	Z	5,19[a]
286	H	H	H	H	H	CH_3	A2	[(2-methylpropoxy)carbonyl]amino	H			Z	3,71[a]
287	H	H	H	H	H	CH_3	A1	[2-(4-methylphenoxy)propanoyl]amino	H	H	H	Z	4,35[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
288	H	H	H	H	H	CH_3	A1	[(2-cyanoethoxy)carbonyl]amino	H	H	H	Z	2,78[a
289	H	H	H	H	H	CH_3	A2	(3-bromobenzoyl)amino	H			Z	4,04[a
290	H	methoxy	H	H	H	CH_3	A1	[(benzyloxy)carbonyl]amino	H	H	H	Z	4,04[a
291	H	H	H	H	H	CH_3	A1	[(4-methyl-3,4-dihydro-1H-isochromen-3-yl)carbonyl]amino	H	H	H	Z	4,35[a
292	H	H	H	H	H	CH_3	A1	{[(3-methylbutan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,27[a]
293	H	H	H	H	H	CH_3	A1	{[(4,4,5,5,5-pentafluoropentyl)oxy]carbonyl}amino	H	H	H	Z	4,29[a]
294	H	H	H	H	H	CH_3	A1	(2-phenoxybenzoyl)amino	H	H	H	Z	4,76[a]
295	H	fluoro	H	H	H	CH_3	A1	(butoxycarbonyl)amino	H	H	H	Z	4,14[a]
296	H	H	H	H	H	CH_3	A1	[(4-methylphenoxy)acetyl]amino	H	H	H	Z	4,07[a]
297	H	fluoro	H	H	H	CH_3	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,26[a]
298	H	H	H	H	H	CH_3	A1	{[2-(2-bromophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,66[a]
299	H	CH_3	H	H	H	CH_3	A1	(tert-butoxycarbonyl)(hexyl)amino	H	H	H	Z	6,57[a]
300	H	H	H	H	H	ethyl	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,72[a]
301	H	H	H	H	H	CH_3	A1	[3-(4-fluorophenyl)propanoyl]amino	H	H	H	Z	3,81[a]
302	H	H	H	H	H	CH_3	A1	hex-5-ynoylamino	H	H	H	Z	3,17[a]
303	H	H	H	H	H	CH_3	A1	decanoylamino	H	H	H	Z	5,54[a]
304	H	H	H	H	H	CH_3	A1	acryloylamino	H	H	H	Z	2,77[a]
305	H	H	H	H	H	CH_3	A1	{[(3,3-dimethylbutan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,56[a]
306	H	H	H	H	H	CH_3	A1	{[(1,3-dichloropropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	3,83[a]
307	H	H	H	H	H	CH_3	A1	[difluoro(phenoxy)acetyl]amino	H	H	H	Z	4,08[a
308	H	H	CH_3	H	H	H	A2	amino	H			Z	1,84[a
309	H	H	H	H	H	CH_3	A1	[(1-fluorocyclopropyl)carbonyl]amino	H	H	H	Z	3,31[a
310	H	H	H	H	H	CH_3	A1	{[2-(4-methoxyphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,08[a
311	H	H	H	H	H	CH_3	A1	[(3-fluorophenoxy)acetyl]amino	H	H	H	Z	3,78[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
312	H	H	H	H	H	CH_3	A2	[2-(4-methylphenoxy)propanoyl]amino	H			Z	4,02[a]
313	H	H	H	H	H	CH_3	A1	(phenoxyacetyl)amino	H	H	H	Z	3,73[a]
314	H	H	H	H	H	CH_3	A2	[(3-bromophenoxy)acetyl]amino	H			Z	3,94[a]
315	H	H	H	H	H	CH_3	A2	(phenoxyacetyl)amino	H			Z	3,51[a]
316	H	H	H	H	H	CH_3	A1	(2,2-dimethylhexanoyl)amino	H	H	H	Z	4,63[a]
317	H	H	H	H	H	CH_3	A1	{[(2-methylbut-3-yn-2-yl)oxy]carbonyl}amino	H	H	H	Z	3,6[a]
318	H	H	H	H	H	CH_3	A2	[(3-methoxyphenoxy)acetyl]amino	H			Z	3,53[a]
319	H	H	CH_3	H	H	CH_3	A2	(2-phenoxypropanoyl)amino	H			Z	3,99[a]
320	H	H	H	H	H	CH_3	A1	[(butylsulfanyl)carbonyl]amino	H	H	H	Z	4,41[a]
321	H	H	H	H	H	CH_3	A2	[2-(3-chlorophenoxy)propanoyl]amino	H			Z	4,1[a]
322	H	H	H	H	H	CH_3	A2	(2-phenoxybutanoyl)amino	H			Z	3,99[a]
323	H	H	H	H	H	CH_3	A1	(bicyclo[2.2.1]hept-5-en-2-ylcarbonyl)amino	H	H	H	Z	3,68[a]
324	H	H	fluoro	H	H	CH_3	A1	(3-phenylpropanoyl)amino	H	H	H	Z	3,87[a]
325	H	methoxy	H	H	H	CH_3	A1	[(2-phenylethoxy)carbonyl]amino	H	H	H	Z	4,19[a]
326	H	H	CH_3	H	H	CH_3	A2	amino	H			Z	1,82[a]
327	H	H	H	H	H	CH_3	A1	(2,5-dimethylbenzoyl)amino	H	H	H	Z	4,06[a]
328	H	methoxy	H	H	H	CH_3	A1	(2-methylpentanoyl)amino	H	H	H	Z	3,87[a]
329	H	H	H	H	H	CH_3	A1	(3-phenoxybenzoyl)amino	H	H	H	Z	4,61[a]
330	H	H	H	H	H	CH_3	A1	bis[(4-fluorophenoxy)carbonyl]amino	H	H	H	Z	4,2[a]
331	H	H	H	H	H	CH_3	A1	(2-iodobenzoyl)amino	H	H	H	Z	3,76[a]
332	H	H	H	H	H	CH_3	A1	(2,4-dichlorobenzoyl)amino	H	H	H	Z	4,14[a]
333	H	H	methoxy	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,69[a]
334	H	H	H	H	H	CH_3	A1	[(3-methylphenoxy)acetyl]amino	H	H	H	Z	4,07[a]
335	H	H	H	H	H	CH_3	A1	[(2-bromophenyl)acetyl]amino	H	H	H	Z	3,85[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
336	H	H	H	H	H	CH_3	A2	(2,5-dimethylbenzoyl)amino	H			Z	3,94[a]
337	H	H	H	H	H	CH_3	A1	{[(2-methylpentyl)oxy]carbonyl}amino	H	H	H	Z	4,83[a]
338	H	fluoro	H	H	H	CH_3	A2	(2-phenoxypropanoyl)amino	H			Z	3,76[a]
339	H	H	CH_3	H	H	CH_3	A2	[(cyclohexyloxy)carbonyl]amino	H			Z	4,48[a]
340	H	H	H	H	H	CH_3	A1	(3-methylbutanoyl)amino	H	H	H	Z	3,44[a]
341	H	H	H	H	H	CH_3	A1	(phenylacetyl)amino	H	H	H	Z	3,53[a]
342	H	H	H	H	H	CH_3	A1	[(prop-2-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,13[a]
343	H	CH_3	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,59[a]
344	H	H	H	H	H	CH_3	A1	(3-methylbenzoyl)amino	H	H	H	Z	3,87[a]
345	H	H	H	H	H	CH_3	A1	(5-methyl-2-furoyl)amino	H	H	H	Z	3,46[a]
346	H	H	H	H	H	CH_3	A1	[3-(4-chlorophenyl)propanoyl]amino	H	H	H	Z	4,17[a]
347	H	H	H	H	H	CH_3	A1	(3-phenylpropanoyl)amino	H	H	H	Z	3,78[a]
348	H	H	H	H	H	CH_3	A1	(2,2,3,3,4,4,4-heptafluorobutanoyl)amino	H	H	H	Z	4,17[a]
349	H	H	H	H	H	CH_3	A1	{[2-(4-chlorophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,53[a]
350	H	H	H	H	H	CH_3	A1	[(2-methylbutoxy)carbonyl]amino	H	H	H	Z	4,44[a]
351	H	H	fluoro	H	H	CH_3	A1	[(cyclohexyloxy)carbonyl]amino	H	H	H	Z	4,54[a]
352	H	H	H	H	H	CH_3	A1	(3,4-dichlorobenzoyl)amino	H	H	H	Z	4,54[a]
353	H	H	H	H	H	CH_3	A1	{[(2-methylhexan-2-yl)oxy]carbonyl}amino	H	H	H	Z	5,1[a]
354	H	methoxy	H	H	H	H	A1	amino	H	H	H	U	1,29[a]
355	H	CH_3	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	4,24[a]
356	H	H	H	H	H	CH_3	A2	[(3-methylphenoxy)acetyl]amino	H			Z	3,8[a]
357	H	H	H	H	H	CH_3	A1	(4-phenoxybenzoyl)amino	H	H	H	Z	4,58[a]
358	H	methoxy	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,55[a]
359	H	H	H	H	H	CH_3	A1	{[2-(3-chlorophenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,51[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
360	H	H	CH_3	H	H	CH_3	A2	formyl(methyl)amino	H			Z	3,06[a]
361	H	methoxy	H	H	H	CH_3	A1	(butoxycarbonyl)amino	H	H	H	Z	4,06[a]
362	H	methoxy	H	H	H	CH_3	A1	(3-methylbutanoyl)amino	H	H	H	Z	3,46[a]
363	H	H	H	H	H	CH_3	A1	[(but-3-en-1-yloxy)carbonyl]amino	H	H	H	Z	3,71[a]
364	H	H	H	H	H	CH_3	A1	(4-fluorobenzoyl)amino	H	H	H	Z	3,62[a]
365	H	H	H	H	H	CH_3	A1	(cyclopentylacetyl)amino	H	H	H	Z	3,92[a]
366	H	H	H	H	H	CH_3	A2	[2-(2-chlorophenoxy)propanoyl]amino	H			Z	4,07[a]
367	H	H	H	H	H	CH_3	A1	(2-acetoxy-2-methylpropanoyl)amino	H	H	H	Z	3,15[a]
368	H	H	H	H	H	CH_3	A2	[(3-chlorophenoxy)acetyl]amino	H			Z	3,87[a]
369	H	H	H	H	H	CH_3	A1	{[2-(4-methylphenyl)ethoxy]carbonyl}amino	H	H	H	Z	4,53[a]
370	H	fluoro	H	H	H	CH_3	A2	pentanoylamino	H			Z	3,48[a]
371	H	H	H	H	H	CH_3	A1	[(2,2-dichloro-1-isopropylcyclopropyl)carbonyl]amino	H	H	H	Z	4,35[a]
372	H	H	H	H	H	CH_3	A1	[(2,2-dimethylpropoxy)carbonyl]amino	H	H	H	Z	4,36[a]
373	H	H	H	H	H	CH_3	A2	(4-bromobenzoyl)amino	H			Z	4,01[a]
374	H	H	H	H	H	CH_3	A1	(6-bromohexanoyl)amino	H	H	H	Z	3,85[a]
375	H	H	H	H	H	CH_3	A1	[(4-methylphenyl)acetyl]amino	H	H	H	Z	3,85[a]
376	H	fluoro	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	3,99[a]
377	H	H	H	H	H	CH_3	A1	(4-phenylbutanoyl)amino	H	H	H	Z	4,04[a]
378	H	H	H	H	H	CH_3	A2	(phenylacetyl)amino	H			Z	3,37[a]
379	H	H	H	H	H	CH_3	A1	(methoxyacetyl)amino	H	H	H	Z	2,73[a]
380	H	H	H	H	H	CH_3	A1	(3-bromobenzoyl)amino	H	H	H	Z	4,16[a]
381	H	H	H	H	H	CH_3	A1	(2-naphthylacetyl)amino	H	H	H	Z	4,12[a]
382	H	H	H	H	H	CH_3	A1	[(3-bromophenoxy)acetyl]amino	H	H	H	Z	4,2[a]
383	H	H	fluoro	H	H	CH_3	A1	{[(4-methylpentan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,77[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
384	H	CH_3	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,83[a]
385	H	H	H	H	H	CH_3	A1	[(butylsulfanyl)carbothioyl]amino	H	H	H	Z	4,8[a]
386	H	H	H	H	H	CH_3	A1	(2-phenylbutanoyl)amino	H	H	H	Z	4,23[a]
387	H	CH_3	H	H	H	CH_3	A1	(2,2-dimethylpropanoyl)amino	H	H	H	Z	3,85[a]
388	H	H	H	H	H	CH_3	A1	(cyclopentylcarbonyl)amino	H	H	H	Z	3,62[a]
389	H	H	H	H	H	CH_3	A1	(3-cyclobutylpropanoyl)amino	H	H	H	Z	4,02[a]
390	H	H	H	H	H	CH_3	A1	[2-(cyclopropylmethoxy)propanoyl]amino	H	H	H	Z	3,78[a]
391	H	CH_3	H	H	H	CH_3	A1	(3-fluorobenzoyl)amino	H	H	H	Z	3,99[a]
392	H	H	CH_3	H	H	CH_3	A2	(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)amino	H			Z	3,9[a]
393	H	H	H	H	H	CH_3	A2	(4-methoxybenzoyl)amino	H			Z	3,48[a]
394	H	H	H	H	H	CH_3	A2	[(but-3-en-1-yloxy)carbonyl]amino	H			Z	3,44[a]
395	H	H	H	H	H	CH_3	A1	[(hex-5-yn-2-yloxy)carbonyl]amino	H	H	H	Z	3,8[a]
396	H	H	methoxy	H	H	CH_3	A1	(tert-butoxycarbonyl)amino	H	H	H	Z	3,96[a]
397	H	H	H	H	H	CH_3	A1	{[1-(4-methylphenyl)cyclopropyl]carbonyl}amino	H	H	H	Z	4,76[a]
398	H	H	H	H	H	CH_3	A1	[2-(2-methylphenoxy)propanoyl]amino	H	H	H	Z	4,46[a]
399	H	methoxy	H	H	H	CH_3	A1	(3-fluorobenzoyl)amino	H	H	H	Z	3,72[a]
400	H	H	H	H	H	CH_3	A1	[(2-ethoxyethoxy)carbonyl]amino	H	H	H	Z	3,17[a]
401	H	H	H	H	H	CH_3	A1	(3,4-dimethylbenzoyl)amino	H	H	H	Z	4,16[a]
402	H	H	H	H	H	CH_3	A1	[(4-chlorophenoxy)acetyl]amino	H	H	H	Z	4,1[a]
403	H	H	H	H	H	ethyl	A1	(3-phenylpropanoyl)amino	H	H	H	Z	4,01[a]
404	H	H	H	H	H	CH_3	A1	(5-chloropentanoyl)amino	H	H	H	Z	3,44[a]
405	H	H	H	H	H	prop-2-en-1-yl	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,61[a]
406	H	fluoro	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,53[a]
407	H	methoxy	H	H	H	CH_3	A1	(2,2-dimethylpropanoyl)amino	H	H	H	Z	3,55[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
408	H	H	H	H	H	CH_3	A1	[(3-cyclopentylpropoxy)carbonyl]amino	H	H	H	Z	5,31[a
409	H	H	H	H	H	CH_3	A1	{[(2-methoxybenzyl)oxy]carbonyl}amino	H	H	H	Z	4,06[a
410	H	H	H	H	H	CH_3	A2	(butoxycarbothioyl)amino	H			Z	4,56[a
411	H	H	H	H	H	CH_3	A1	[(pyridin-4-ylmethoxy)carbonyl]amino	H	H	H	Z	2,01[a
412	H	H	H	H	H	CH_3	A1	{[(3-methyloxetan-3-yl)methoxy]carbonyl}amino	H	H	H	Z	2,96[a]
413	H	H	H	H	H	CH_3	A1	{[(2-chlorobenzyl)oxy]carbonyl}amino	H	H	H	Z	4,34[a]
414	H	H	H	H	H	CH_3	A1	[(but-2-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,42[a]
415	H	H	H	H	H	CH_3	A1	[(oct-2-yn-1-yloxy)carbonyl]amino	H	H	H	Z	4,86[a]
416	fluoro	fluoro	H	H	H	CH_3	A1	amino	H	H	H	E	1,26[a]
417	fluoro	fluoro	H	H	H	CH_3	A1	[(cyclohexyloxy)carbonyl]amino	H	H	H	Z	4,46[a]
418	H	H	H	H	H	CH_3	A1	[(hept-2-yn-1-yloxy)carbonyl]amino	H	H	H	Z	4,51[a]
419	H	H	H	H	H	CH_3	A1	[(heptyloxy)carbonyl]amino	H	H	H	Z	5,25[a]
420	fluoro	fluoro	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,55[a]
421	H	H	H	H	H	CH_3	A1	(ethoxycarbonyl)amino	H	H	H	Z	3,21[a]
422	H	H	H	H	H	CH_3	A1	{[3-(trimethylsilyl)propoxy]carbonyl}amino	H	H	H	Z	5,28[a]
423	H	H	H	H	H	CH_3	A1	[(3,3-dimethylbutoxy)carbonyl]amino	H	H	H	Z	4,68[a]
424	H	H	H	H	H	CH_3	A1	{[3-chloro-2-(hydroxymethyl)-2-methylpropoxy]carbonyl}amino	H	H	H	Z	3,19[a]
425	H	H	H	H	H	CH_3	A1	[(4-methylphenoxy)carbonyl]amino	H	H	H	Z	4,03[a]
426	H	H	H	H	H	CH_3	A1	[(2-propylphenoxy)carbonyl]amino	H	H	H	Z	4,54[a]
427	H	H	H	H	H	CH_3	A1	[(propan-2-yloxy)carbonyl]amino	H	H	H	Z	3,55[a
428	H	H	H	H	H	CH_3	A1	{[(2,6-dichlorobenzyl)oxy]carbonyl}amino	H	H	H	Z	4,56[a
429	H	H	H	H	H	CH_3	A1	[(3-methoxybutoxy)carbonyl]amino	H	H	H	Z	3,37[a
430	H	H	H	H	H	CH_3	A1	[(2-ethylphenoxy)carbonyl]amino	H	H	H	Z	4,25[a
431	H	H	H	H	H	CH_3	A1	[(3-ethoxypropoxy)carbonyl]amino	H	H	H	Z	3,44[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
432	H	H	H	H	H	CH_3	A1	{[(4-cyanobenzyl)oxy]carbonyl}amino	H	H	H	Z	3,61[a
433	H	H	H	H	H	CH_3	A1	[(tetrahydro-2H-pyran-2-ylmethoxy)carbonyl]amino	H	H	H	Z	3,5[a]
434	H	H	H	H	H	CH_3	A1	[(pyridin-3-ylmethoxy)carbonyl]amino	H	H	H	Z	2,17[a
435	H	H	H	H	H	CH_3	A1	[(3-ethylphenoxy)carbonyl]amino	H	H	H	Z	4,34[a
436	H	H	H	H	H	CH_3	A1	[(pent-4-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,51[a]
437	H	H	H	H	H	CH_3	A1	[(pyridin-2-ylmethoxy)carbonyl]amino	H	H	H	Z	2,64[a]
438	H	H	H	H	H	CH_3	A1	[(2-cyclopropylethoxy)carbonyl]amino	H	H	H	Z	4,01[a]
439	H	H	H	H	H	CH_3	A1	{[2-(2-ethoxyethoxy)ethoxy]carbonyl}amino	H	H	H	Z	3,13[a]
440	H	H	H	H	H	CH_3	A1	{[(trimethylsilyl)methoxy]carbonyl}amino	H	H	H	Z	4,53[a]
441	H	H	H	H	H	CH_3	A1	{[(3-methoxybenzyl)oxy]carbonyl}amino	H	H	H	Z	3,96[a]
442	H	H	H	H	chloro	CH_3	A2	(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)amino	H			Z	3,73[a]
443	H	H	H	H	H	CH_3	A1	({[3-(trimethylsilyl)prop-2-yn-1-yl]oxy}carbonyl)amino	H	H	H	Z	4,63[a]
444	fluoro	H	H	H	H	CH_3	A1	[(pentyloxy)carbonyl]amino	H	H	H	Z	4,34[a]
445	H	H	H	H	H	CH_3	A1	{[(1,1,1-trichloro-2-methylpropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,91[a]
446	H	H	H	H	H	CH_3	A1	{[(4-oxopentyl)oxy]carbonyl}amino	H	H	H	Z	2,96[a]
447	H	H	H	H	H	CH_3	A1	{[2-(2-chloroethoxy)ethoxy]carbonyl}amino	H	H	H	Z	3,29[a]
448	H	H	H	H	H	CH_3	A1	{[(4-methylpent-3-en-1-yl)oxy]carbonyl}amino	H	H	H	Z	4,39[a]
449	fluoro	H	H	H	H	CH_3	A1	(2-methylpentanoyl)amino	H	H	H	Z	3,73[a]
450	H	H	H	H	H	CH_3	A1	{[(4-methoxybenzyl)oxy]carbonyl}amino	H	H	H	Z	3,92[a]
451	H	H	H	H	H	CH_3	A1	{[(2,4,4-trimethylpentyl)oxy]carbonyl}amino	H	H	H	Z	5,39[a
452	H	H	H	H	H	CH_3	A1	[(hept-6-en-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	4,01[a
453	H	H	H	H	H	CH_3	A1	{[(3Z)-hept-3-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,81[a
454	H	H	H	H	H	CH_3	A1	[(hex-5-en-1-yloxy)carbonyl]amino	H	H	H	Z	4,39[a
455	H	H	H	H	H	CH_3	A1	[(hex-4-yn-2-yloxy)carbonyl]amino	H	H	H	Z	3,89[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
456	H	H	H	H	H	CH_3	A1	[(2-phenoxyethoxy)carbonyl]amino	H	H	H	Z	3,94[a]
457	H	H	H	H	H	CH_3	A1	[(3-methoxy-3-methylbutoxy)carbonyl]amino	H	H	H	Z	3,59[a]
458	H	H	H	H	H	CH_3	A1	{[(3-methylbenzyl)oxy]carbonyl}amino	H	H	H	Z	4,34[a]
459	H	H	H	H	H	CH_3	A1	[(2-bromoethoxy)carbonyl]amino	H	H	H	Z	3,42[a]
460	fluoro	fluoro	H	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	U	3,76[a]
461	H	H	H	H	H	CH_3	A1	[(2,2-dichloroethoxy)carbonyl]amino	H	H	H	Z	3,74[a]
462	H	H	H	H	H	CH_3	A1	l-4-[({[(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl]oxy}carbonyl)amino]	H	H	H	Z	5,9[a]
463	H	H	H	H	H	CH_3	A1	{[(2-ethylhexyl)oxy]carbonyl}amino	H	H	H	Z	5,54[a]
464	fluoro	fluoro	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	3,92[a]
465	H	H	H	H	H	CH_3	A1	[(octyloxy)carbonyl]amino	H	H	H	Z	5,65[a]
466	H	H	H	H	H	CH_3	A1	[(prop-1-en-2-yloxy)carbonyl]amino	H	H	H	Z	3,37[a]
467	H	H	H	H	H	CH_3	A1	[(4-propylphenoxy)carbonyl]amino	H	H	H	Z	4,74[a]
468	H	H	H	H	H	CH_3	A1	{[(3-phenylprop-2-yn-1-yl)oxy]carbonyl}amino	H	H	H	Z	4,25[a]
469	H	H	H	H	H	CH_3	A1	[(3-propylphenoxy)carbonyl]amino	H	H	H	Z	4,72[a]
470	H	H	H	H	H	CH_3	A1	[(mesityloxy)carbonyl]amino	H	H	H	Z	4,56[a]
471	H	H	H	H	H	CH_3	A1	{[2-(pyridin-2-yl)ethoxy]carbonyl}amino	H	H	H	Z	2,07[a]
472	H	H	H	H	H	CH_3	A1	{[3-(dimethylamino)propoxy]carbonyl}amino	H	H	H	Z	1,88[a]
473	H	H	H	H	H	CH_3	A1	[(cyclopropylmethoxy)carbonyl]amino	H	H	H	Z	3,64[a]
474	H	H	H	H	H	CH_3	A1	{[(2-oxo-1,3-dioxolan-4-yl)methoxy]carbonyl}amino	H	H	H	Z	2,75[a]
475	H	H	H	H	H	CH_3	A1	{[(1-cyclopropylpropan-2-yl)oxy]carbonyl}amino	H	H	H	Z	4,32[a]
476	H	H	H	H	H	CH_3	A1	4-{[(4-nitrobenzyl)oxy]carbonyl}amino	H	H	H	Z	3,83[a]
477	H	H	H	H	H	CH_3	A1	{[(3-cyanobenzyl)oxy]carbonyl}amino	H	H	H	Z	3,65[a]
478	H	H	H	H	H	CH_3	A1	[(4-ethylphenoxy)carbonyl]amino	H	H	H	Z	4,39[a]
479	H	H	H	H	H	CH_3	A1	[(pent-4-en-2-yloxy)carbonyl]amino	H	H	H	Z	4,01[a]

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
480	fluoro	H	H	H	H	CH_3	A1	pentanoylamino	H	H	H	Z	3,44[a
481	H	H	H	H	chloro	CH_3	A2	pentanoylamino	H			Z	3,53[a
482	H	H	H	H	H	CH_3	A1	[(vinyloxy)carbonyl]amino	H	H	H	Z	3,33[a
483	H	H	H	H	H	CH_3	A1	[(tetrahydrofuran-2-ylmethoxy)carbonyl]amino	H	H	H	Z	3,11[a
484	H	H	H	H	H	CH_3	A1	[(hex-5-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,78[a]
485	H	H	H	H	H	CH_3	A1	[(1-cyclohexylethoxy)carbonyl]amino	H	H	H	Z	5,25[a]
486	H	H	H	H	H	CH_3	A1	{[(6-chlorohexyl)oxy]carbonyl}amino	H	H	H	Z	4,49[a]
487	H	H	H	H	H	CH_3	A1	{[(2-methylbenzyl)oxy]carbonyl}amino	H	H	H	Z	4,29[a]
488	H	H	H	H	H	CH_3	A1	{[(4Z)-hept-4-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,78[a]
489	H	H	H	H	H	CH_3	A1	[(3-methoxy-2,2-dimethyl-3-oxopropoxy)carbonyl]amino	H	H	H	Z	3,65[a]
490	H	H	H	H	H	CH_3	A1	{[2-(allyloxy)ethoxy]carbonyl}amino	H	H	H	Z	3,37[a]
491	H	H	H	H	H	CH_3	A1	[(3-methoxy-2-methyl-3-oxopropoxy)carbonyl]amino	H	H	H	Z	3,33[a]
492	H	H	H	H	H	CH_3	A1	[(4-isopropylphenoxy)carbonyl]amino	H	H	H	Z	4,67[a]
493	H	H	H	H	chloro	CH_3	A2	(2-phenoxypropanoyl)amino	H			Z	3,81[a]
494	H	H	H	H	H	CH_3	A1	[(2,6-dimethylphenoxy)carbonyl]amino	H	H	H	Z	4,2[a]
495	H	H	H	H	H	CH_3	A1	{[(2-fluorobenzyl)oxy]carbonyl}amino	H	H	H	Z	4,01[a]
496	H	H	H	H	H	CH_3	A1	{[2-(cyclohexyloxy)ethoxy]carbonyl}amino	H	H	H	Z	4,31[a]
497	H	H	H	H	H	CH_3	A1	{[3-(pyridin-3-yl)propoxy]carbonyl}amino	H	H	H	Z	2,11[a]
498	H	H	H	H	H	CH_3	A1	{[(3,5-dimethylbenzyl)oxy]carbonyl}amino	H	H	H	Z	4,68[a]
499	H	H	H	H	chloro	CH_3	A2	[(but-3-yn-1-yloxy)carbonyl]amino	H			Z	3,19[a
500	H	H	H	H	H	CH_3	A1	[(2,2,2-trifluoroethoxy)carbonyl]amino	H	H	H	Z	3,57[a
501	H	H	H	H	H	CH_3	A1	{[(3-fluorobenzyl)oxy]carbonyl}amino	H	H	H	Z	4,01[a
502	H	H	H	H	H	CH_3	A1	[(1-cyclopentylethoxy)carbonyl]amino	H	H	H	Z	4,82[a
503	H	H	H	H	H	CH_3	A1	[(pent-2-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,78[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
504	H	H	H	H	H	CH_3	A1	{[(2-methylprop-2-en-1-yl)oxy]carbonyl}amino	H	H	H	Z	3,73[a]
505	H	H	H	H	H	CH_3	A1	{[(4Z)-hex-4-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,39[a]
506	H	H	H	H	H	CH_3	A1	{[(5-methylhexyl)oxy]carbonyl}amino	H	H	H	Z	5,17[a]
507	H	H	H	H	H	CH_3	A1	{[(2E)-hex-2-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,56[a]
508	fluoro	fluoro	H	H	H	CH_3	A1	amino	H	H	H	Z	1,34[a]
509	H	H	H	H	H	CH_3	A1	{[(4E)-hex-4-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,44[a]
510	fluoro	H	H	H	H	CH_3	A1	amino	H	H	H	Z	1,23[a]
511	H	H	H	H	H	CH_3	A1	[(hept-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	4,31[a]
512	H	H	H	H	H	CH_3	A2	[(butylsulfanyl)carbothioyl]amino	H			Z	4,81[a]
513	fluoro	H	H	H	H	CH_3	A1	hexanoylamino	H	H	H	Z	3,81[a]
514	H	H	H	H	H	CH_3	A1	[(4-acetoxybutoxy)carbonyl]amino	H	H	H	Z	3,35[a]
515	H	H	H	H	H	CH_3	A1	{[2-(acryloyloxy)ethoxy]carbonyl}amino	H	H	H	Z	3,21[a]
516	H	H	H	H	H	CH_3	A1	{[3-(methylsulfanyl)propoxy]carbonyl}amino	H	H	H	Z	3,68[a]
517	H	H	H	H	H	CH_3	A1	l-4-[({[(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl]oxy}carbonyl)amino]	H	H	H	Z	5,9[a]
518	H	H	H	H	H	CH_3	A1	[(2-chloroethoxy)carbonyl]amino	H	H	H	Z	3,29[a]
519	H	H	H	H	chloro	CH_3	A2	(butoxycarbonyl)amino	H			Z	3,85[a]
520	H	H	H	H	H	CH_3	A1	{[(3-ethyloxetan-3-yl)methoxy]carbonyl}amino	H	H	H	Z	3,27[a]
521	H	H	H	H	H	CH_3	A1	[(2-methylphenoxy)carbonyl]amino	H	H	H	Z	3,96[a]
522	H	H	H	H	H	CH_3	A1	{[(3E)-hex-3-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,46[a]
523	H	H	H	H	H	CH_3	A1	[(3-cyclohexylpropoxy)carbonyl]amino	H	H	H	Z	5,71[a]
524	H	H	H	H	H	CH_3	A1	[(tetrahydrofuran-3-ylmethoxy)carbonyl]amino	H	H	H	Z	2,98[a]
525	fluoro	H	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,21[a]
526	H	H	H	H	H	CH_3	A1	[(cyclohex-3-en-1-ylmethoxy)carbonyl]amino	H	H	H	Z	4,51[a]
527	H	H	H	H	H	CH_3	A1	[(2-thienylmethoxy)carbonyl]amino	H	H	H	Z	3,83[a]

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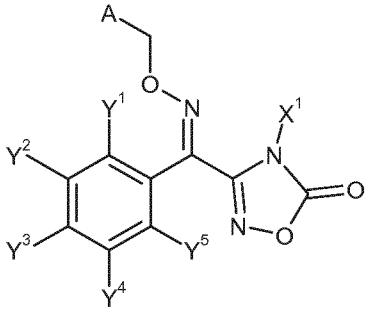
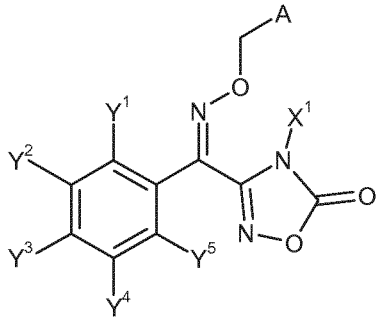
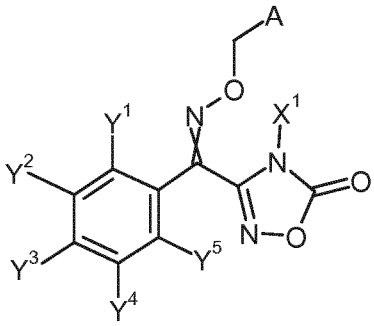
Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
528	H	H	H	H	H	CH_3	A1	{[(4-fluorobenzyl)oxy]carbonyl}amino	H	H	H	Z	3,99[a
529	H	H	H	H	H	CH_3	A1	[(1,3-dioxolan-4-ylmethoxy)carbonyl]amino	H	H	H	Z	2,73[a
530	H	H	H	H	chloro	CH_3	A2	[(pentyloxy)carbonyl]amino	H			Z	4,25[a
531	H	H	H	H	H	CH_3	A1	[(2-propoxyethoxy)carbonyl]amino	H	H	H	Z	3,57[a
532	H	H	H	H	H	CH_3	A1	[(4-methoxyphenoxy)carbonyl]amino	H	H	H	Z	3,69[a]
533	H	H	H	H	H	CH_3	A1	[(2-cyclopentylethoxy)carbonyl]amino	H	H	H	Z	4,9[a]
534	fluoro	fluoro	H	H	H	CH_3	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,31[a]
535	H	H	H	H	H	CH_3	A1	{[(2Z)-hex-2-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,53[a]
536	H	H	H	H	H	CH_3	A1	[(2,2,2-trichloroethoxy)carbonyl]amino	H	H	H	Z	4,15[a]
537	H	H	H	H	H	CH_3	A1	{[2-(tetrahydro-2H-pyran-4-yl)ethoxy]carbonyl}amino	H	H	H	Z	3,44[a]
538	H	H	H	H	chloro	CH_3	A2	hexanoylamino	H			Z	3,89[a]
539	H	H	H	H	H	CH_3	A2	[(tert-butylsulfanyl)carbonyl]amino	H			Z	4,04[a]
540	H	H	H	H	H	CH_3	A1	{[(3Z)-hex-3-en-1-yloxy]carbonyl}amino	H	H	H	Z	4,44[a]
541	H	H	H	H	H	CH_3	A1	[(cyclohexylmethoxy)carbonyl]amino	H	H	H	Z	4,88[a]
542	H	H	H	H	H	CH_3	A1	{[2-(trimethylsilyl)ethoxy]carbonyl}amino	H	H	H	Z	4,88[a]
543	H	H	H	H	chloro	CH_3	A2	(phenylacetyl)amino	H			Z	3,51[a]
544	H	H	H	H	H	CH_3	A1	[(3-chloropropoxy)carbonyl]amino	H	H	H	Z	3,6[a]
545	H	H	H	H	H	CH_3	A1	[(2-isopropoxyethoxy)carbonyl]amino	H	H	H	Z	3,44[a]
546	H	H	H	H	H	CH_3	A1	{[(4-methylbenzyl)oxy]carbonyl}amino	H	H	H	Z	4,31[a]
547	H	H	H	H	H	CH_3	A1	(methoxycarbonyl)amino	H	H	H	Z	2,84[a]
548	H	H	H	H	H	CH_3	A1	[(pent-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z	3,58[a]
549	H	H	H	H	H	CH_3	A1	[(3-cyclopropylpropoxy)carbonyl]amino	H	H	H	Z	4,37[a
550	H	H	H	H	H	CH_3	A1	[(4-chlorobutoxy)carbonyl]amino	H	H	H	Z	3,83[a
551	H	H	H	H	H	CH_3	A1	[(2-fluoroethoxy)carbonyl]amino	H	H	H	Z	2,96[a

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Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
552	fluoro	H	H	H	H	CH_3	A1	(butoxycarbonyl)amino	H	H	H	Z	3,92[a]
553	H	H	H	H	H	CH_3	A1	[(3-isopropylphenoxy)carbonyl]amino	H	H	H	Z	4,64[a]
554	H	H	H	H	H	CH_3	A1	[(2-ethoxy-2-oxoethoxy)carbonyl]amino	H	H	H	Z	3,21[a]

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We describe the double bond geometry of the examples of table 1 as shown here:

I (E)	I (Z)	I (U)
		

Measurement of logP values was performed according EEC directive 79/831 Annex V.A8 by HPLC (High Performance Liquid Chromatography) on reversed phase columns with the following methods:

[a] Measurement of LC-MS was done at pH 2,7 with 0,1 % formic acid in water and with acetonitrile (contains 0,1% formic acid) as eluent with a linear gradient from 10 % acetonitrile to 95 % acetonitrile. Calibration was done with not branched alkan2-ones (with 3 to 16 carbon atoms) with known logP-values (measurement of logP values using retention times with linear interpolation between successive alkanones). lambda-maX-values were determined using UV-spectra from 200 nm to 400 nm and the peak values of the chromatographic signals.

NMR-Peak lists

1H-NMR data of selected examples are written in form of 1H-NMR-peak lists. To each signal peak are listed the δ-value in ppm and the signal intensity in round brackets. Between the δ-value – signal intensity pairs are semicolons as delimiters.

The peak list of an example has therefore the form:

δ_1 (intensity$_1$); δ_2 (intensity$_2$);.....; δ_i (intensity$_i$);.....; δ_n (intensity$_n$)

NMR Peak List Table 1

Example 1, Solvent: DMSO, Spectrometer: 499,93 MHz
7.7706 (0.59); 7.7438 (4.33); 7.7288 (4.77); 7.5449 (0.82); 7.5304 (2.27); 7.5160 (2.14); 7.4914 (3.65); 7.4760 (4.63); 7.4616 (1.97); 7.4219 (0.60); 7.4140 (1.79); 7.4072 (1.18); 7.3987 (2.87); 7.3831 (1.80); 6.5450 (2.86); 6.5306 (2.81); 6.4357 (2.85); 6.4192 (2.83); 6.0594 (6.23); 5.7816 (0.67); 5.2149 (9.25); 3.8061 (2.02); 3.4478 (3.34); 3.1218 (16.00); 2.5112 (0.36); 1.9897 (0.98); 1.1684 (0.52)
Example 2, Solvent: DMSO, Spectrometer: 499,93 MHz
10.1848 (2.68); 7.8340 (0.41); 7.8171 (2.04); 7.8092 (2.38); 7.8049 (4.86); 7.7925 (0.52); 7.7304 (2.61); 7.7200 (0.87); 7.7161 (3.25); 7.7132 (2.46); 7.5673 (0.55); 7.5649 (0.37); 7.5570 (0.44); 7.5526 (1.61); 7.5485 (0.57); 7.5404 (0.83); 7.5379 (1.32); 7.5354 (0.74); 7.5019 (2.27); 7.4992 (1.12); 7.4945 (0.53); 7.4890 (1.84); 7.4864 (3.15); 7.4752 (0.60); 7.4720 (1.29); 7.4701 (0.87); 7.1088 (1.26); 7.1041 (1.26); 7.0969 (1.13); 7.0922 (1.23); 5.3400 (6.66); 4.1044 (2.03); 4.0909 (4.22); 4.0775 (2.01); 3.9490 (1.03); 3.3400 (81.74); 3.3162 (1.90); 3.0753 (16.00); 2.5194 (2.79); 2.5159 (5.86); 2.5123 (8.04); 2.5086 (5.91); 2.5051 (2.84); 1.6318 (0.90); 1.6267 (0.73); 1.6181 (1.44); 1.6095 (0.75); 1.6044 (1.04); 1.5907 (0.33); 1.3485 (1.15); 1.3403 (1.83); 1.3343 (3.86); 1.3274 (2.69); 1.3199 (2.61); 1.3080 (0.47); 0.9041 (1.80); 0.8992 (1.09); 0.8901 (4.83); 0.8758 (1.55); 0.7455 (0.48); 0.7313 (0.97); 0.7167 (0.46)
Example 3, Solvent: DMSO, Spectrometer: 499,93 MHz
10.3221 (2.70); 7.8439 (0.69); 7.8271 (1.82); 7.8132 (2.25); 7.8065 (2.30); 7.8042 (2.59); 7.7899 (0.89); 7.7876 (0.69); 7.7313 (2.88); 7.7206 (0.96); 7.7168 (3.44); 7.7140 (2.62); 7.5687 (0.36); 7.5666 (0.59); 7.5643 (0.41); 7.5562 (0.49); 7.5518 (1.75); 7.5479 (0.61); 7.5395 (0.86); 7.5371 (1.36); 7.5348 (0.79); 7.5014 (2.47); 7.4859 (3.37); 7.4746 (0.61); 7.4715 (1.36); 7.1244 (1.53); 7.1222 (1.55); 7.1106 (1.49); 7.1084

(1.47); 5.3445 (6.98); 4.1960 (2.15); 4.1827 (4.65); 4.1693 (2.20); 4.0453 (0.95); 4.0310 (0.96); 4.0168 (0.33); 3.3394 (10.40); 3.3158 (0.46); 3.0794 (16.00); 2.9191 (1.40); 2.9138 (2.99); 2.9086 (1.44); 2.5789 (1.32); 2.5736 (1.41); 2.5656 (2.78); 2.5603 (2.73); 2.5522 (1.41); 2.5470 (1.27); 2.5192 (1.44); 2.5157 (2.92); 2.5122 (3.96); 2.5086 (2.93); 2.5052 (1.43); 1.9989 (4.08); 1.2525 (0.88); 1.2416 (0.43); 1.1980 (1.09); 1.1838 (2.15); 1.1695 (1.06); 0.8802 (0.51); 0.8666 (1.42); 0.8523 (0.63)
Example 4, Solvent: DMSO, Spectrometer: 499.93 MHz
7.7446 (3.01); 7.7343 (1.08); 7.7303 (3.49); 7.7274 (2.72); 7.5671 (0.40); 7.5648 (0.64); 7.5624 (0.51); 7.5550 (0.54); 7.5500 (1.77); 7.5458 (0.74); 7.5380 (1.00); 7.5355 (1.54); 7.5330 (0.99); 7.5076 (2.63); 7.4950 (1.98); 7.4922 (3.49); 7.4813 (0.74); 7.4781 (1.41); 7.4759 (0.98); 7.4708 (0.32); 7.0072 (3.79); 6.6393 (3.47); 5.1287 (6.93); 3.3423 (7.56); 3.0610 (16.00); 2.5195 (0.60); 2.5160 (1.19); 2.5124 (1.61); 2.5088 (1.24); 2.5055 (0.65); 1.9990 (1.19); 1.1984 (0.33); 1.1841 (0.64)
Example 5, Solvent: DMSO, Spectrometer: 400.13 MHz
10.1669 (3.24); 7.8318 (0.50); 7.8107 (2.28); 7.8007 (2.67); 7.7955 (5.24); 7.7800 (0.66); 7.7267 (2.91); 7.7088 (3.58); 7.7051 (2.67); 7.5666 (0.54); 7.5548 (0.45); 7.5483 (1.75); 7.5428 (0.62); 7.5301 (1.52); 7.4995 (2.65); 7.4803 (3.35); 7.4627 (1.30); 7.1047 (1.40); 7.0989 (1.39); 7.0899 (1.27); 7.0841 (1.35); 5.3335 (7.04); 4.1468 (1.93); 4.1298 (4.09); 4.1128 (2.01); 3.3279 (116.65); 3.0694 (16.00); 2.5155 (20.77); 2.5113 (40.74); 2.5069 (54.41); 2.5025 (40.18); 2.3339 (0.36); 1.7244 (1.24); 1.6879 (2.13); 1.6484 (1.50); 1.6310 (0.97); 1.6032 (0.68); 1.5377 (0.90); 1.5207 (2.62); 1.5036 (2.95); 1.4868 (1.20); 1.4125 (0.38); 1.4042 (0.46); 1.3960 (0.53); 1.3861 (0.55); 1.3781 (0.51); 1.3695 (0.50); 1.3613 (0.41); 1.2526 (0.44); 1.2221 (0.95); 1.1924 (1.39); 1.1656 (1.61); 1.1514 (0.63); 1.1439 (0.80); 1.1140 (0.48); 0.9629 (0.59); 0.9341 (1.29); 0.9043 (1.16); 0.8809 (0.48)
Example 6, Solvent: DMSO, Spectrometer: 400.13 MHz
10.1987 (3.02); 7.8363 (0.49); 7.8152 (2.33); 7.8063 (2.70); 7.8005 (5.45); 7.7855 (0.64); 7.7274 (2.92); 7.7095 (3.63); 7.7058 (2.67); 7.5662 (0.57); 7.5631 (0.41); 7.5543 (0.50); 7.5479 (1.77); 7.5423 (0.64); 7.5329 (1.08); 7.5297 (1.56); 7.5265 (0.90); 7.4995 (2.64); 7.4838 (1.99); 7.4803 (3.33); 7.4666 (0.69); 7.4627 (1.34); 7.4596 (0.86); 7.1087 (1.39); 7.1025 (1.38); 7.0941 (1.24); 7.0880 (1.33); 5.8795 (0.66); 5.8705 (0.38); 5.8631 (0.38); 5.8538 (0.97); 5.8369 (1.00); 5.8276 (0.43); 5.8202 (0.42); 5.8111 (0.78); 5.7947 (0.39); 5.7612 (1.46); 5.3376 (7.02); 5.0854 (0.55); 5.0814 (1.22); 5.0766 (1.29); 5.0726 (0.61); 5.0424 (0.53); 5.0385 (1.13); 5.0337 (1.18); 5.0297 (0.58); 5.0055 (1.28); 5.0031 (1.17); 5.0006 (1.14); 4.9801 (1.20); 4.9775 (1.09); 4.9751 (1.07); 4.1127 (2.11); 4.0961 (4.43); 4.0796 (2.18); 3.3305 (40.52); 3.0706 (16.00); 2.5155 (7.99); 2.5112 (15.37); 2.5068 (20.26); 2.5024 (14.84); 2.1528 (0.71); 2.1352 (1.78); 2.1182 (1.83); 2.1159 (1.84); 2.0991 (0.87); 1.7438 (0.62); 1.7270 (1.73); 1.7079 (2.23); 1.6904 (1.66); 1.6733 (0.57)
Example 7, Solvent: DMSO, Spectrometer: 400.13 MHz
10.2520 (3.20); 7.8262 (0.66); 7.8052 (2.02); 7.7880 (3.89); 7.7829 (2.83); 7.7658 (0.83); 7.7279 (3.00); 7.7100 (3.67); 7.7063 (2.76); 7.5667 (0.56); 7.5636 (0.41); 7.5547 (0.48); 7.5483 (1.79); 7.5428 (0.66); 7.5332 (1.07); 7.5302 (1.56); 7.4998 (2.71); 7.4806 (3.42); 7.4669 (0.71); 7.4629 (1.37); 7.4599 (0.90); 7.3152 (9.49); 7.3043 (10.60); 7.2859 (0.54); 7.2827 (0.54); 7.2547 (0.43); 7.2454 (0.89); 7.2350 (1.32); 7.2241 (1.45); 7.2137 (0.79); 7.2021 (0.42); 7.1087 (1.55); 7.1049 (1.57); 7.0921 (1.47); 7.0883 (1.49); 5.7617 (5.40); 5.3363 (6.96); 4.3097 (1.95); 4.2925 (4.25); 4.2752 (2.06); 3.3342 (34.82); 3.0676 (16.00); 2.9561 (1.94); 2.9389 (3.94); 2.9217 (1.88); 2.5113 (12.99); 2.5069 (17.15); 2.5025 (12.65); 1.9933 (0.37)
Example 8, Solvent: DMSO, Spectrometer: 400.13 MHz
10.5083 (2.38); 8.0760 (1.44); 8.0553 (1.72); 7.8355 (1.33); 7.8161 (1.97); 7.7959 (1.24); 7.7279 (2.88); 7.7100 (3.57); 7.7063 (2.65); 7.5683 (0.55); 7.5651 (0.40); 7.5564 (0.47); 7.5500 (1.75); 7.5444 (0.63); 7.5349 (1.04); 7.5317 (1.52); 7.5007 (2.62); 7.4815 (3.32); 7.4677 (0.67); 7.4638 (1.32); 7.1445 (1.98); 7.1261 (1.92); 5.7617 (1.80); 5.3578 (6.81); 3.3305 (52.69); 3.0573 (16.00); 2.5155 (10.46); 2.5113 (20.34); 2.5069 (27.02); 2.5025 (19.91); 2.3963 (1.83); 2.3779 (3.38); 2.3594 (2.01); 1.5833 (0.93); 1.5670 (1.45); 1.5494 (1.15); 1.5310 (0.46); 1.2683 (6.34); 1.2651 (6.26); 0.8766 (1.79); 0.8598 (5.70); 0.8425 (2.16)
Example 9, Solvent: DMSO, Spectrometer: 400.13 MHz
12.1173 (2.55); 7.7390 (2.96); 7.7213 (3.56); 7.7176 (2.64); 7.5667 (0.50); 7.5636 (0.37); 7.5552 (0.41); 7.5483 (1.74); 7.5427 (0.60); 7.5335 (1.03); 7.5303 (1.57); 7.5051 (2.73); 7.4859 (3.34); 7.4724 (0.59); 7.4684 (1.25); 7.4650 (0.82); 7.2615 (4.30); 5.7612 (3.17); 5.3238 (6.70); 3.3346 (29.08); 3.0167 (16.00); 2.5111 (11.26); 2.5067 (14.95); 2.5024 (10.94); 2.4226 (1.84); 2.4042 (3.55); 2.3856 (2.02); 1.9928 (0.56); 1.5958 (0.97); 1.5790 (1.49); 1.5613 (1.14); 1.5430 (0.39); 1.2590 (6.75); 1.1781 (0.36); 0.8689 (1.89); 0.8599 (2.02); 0.8524 (5.93); 0.8351 (2.14)
Example 10, Solvent: DMSO, Spectrometer: 400.13 MHz
12.5590 (1.60); 7.7403 (2.99); 7.7225 (3.67); 7.7188 (2.71); 7.5698 (0.58); 7.5667 (0.43); 7.5582 (0.50); 7.5515 (1.82); 7.5457 (0.69); 7.5366 (1.17); 7.5334 (1.66); 7.5074 (2.81); 7.4883 (3.46); 7.4747 (0.77); 7.4707 (1.40); 7.4674 (0.92); 7.3697 (4.69); 7.0148 (1.41); 6.9960 (1.86); 6.9939 (1.79); 6.9214 (0.33); 6.9149 (0.79); 6.9073 (0.97); 6.9001 (1.09); 6.8926 (1.62); 6.8884 (0.78); 6.8804 (0.96); 6.8733 (2.00); 6.8624 (5.17); 6.8583 (3.48); 6.8473 (1.45); 6.8435 (1.38); 6.8320 (0.37); 6.8274 (0.40); 6.8236 (0.37); 5.7612 (5.24); 5.3492 (6.42); 5.1539 (1.22); 5.1452 (2.37); 5.1356 (1.29); 4.4359 (2.83); 4.4333 (2.89); 4.4258 (3.48); 4.4034 (0.38); 4.0429 (0.50); 4.0252 (0.50); 3.3306 (35.81); 3.2961 (0.61); 3.0174 (16.00); 2.5153 (10.91); 2.5112 (20.83); 2.5068 (27.33); 2.5024 (19.99); 1.9938 (2.16); 1.2405 (0.35); 1.1972 (0.60); 1.1794 (1.16); 1.1616 (0.60)
Example 11, Solvent: DMSO, Spectrometer: 400.13 MHz
12.3858 (1.35); 7.7445 (2.97); 7.7267 (3.64); 7.7230 (2.75); 7.5705 (0.54); 7.5676 (0.41); 7.5591 (0.46); 7.5522 (1.78); 7.5465 (0.67); 7.5374 (1.11); 7.5342 (1.65); 7.5089 (2.78); 7.4935 (1.99); 7.4898 (3.45); 7.4765 (0.75); 7.4723 (1.39); 7.4688 (0.97); 7.3613 (4.75); 7.1264 (0.72); 7.1081 (1.50); 7.0873 (1.38); 7.0804 (2.10); 7.0602 (2.42); 7.0391 (0.87); 6.8995 (2.03); 6.8791 (1.79); 6.8735 (1.39); 6.8549 (1.91); 6.8437 (0.76); 6.8409 (0.85); 6.8366 (1.03); 6.8339 (0.95); 6.8252 (0.93); 6.8226 (1.05); 6.8070 (1.35); 6.7868 (0.85); 5.3532 (6.46); 4.9141 (1.07); 4.9057 (1.24); 4.8938 (1.34); 4.8854 (1.16); 4.7823 (0.51); 4.7725 (0.59); 4.7660 (0.63); 4.7562 (0.53); 3.3355 (12.66); 3.3037 (0.88); 3.0259

(16.00); 2.8393 (0.37); 2.8332 (0.36); 2.8122 (0.70); 2.7920 (0.85); 2.7780 (0.65); 2.7664 (0.56); 2.7506 (0.33); 2.7264 (0.51); 2.7127 (1.04); 2.6981 (0.63); 2.6851 (0.42); 2.6713 (0.89); 2.6570 (0.64); 2.6377 (0.35); 2.5154 (9.57); 2.5113 (18.71); 2.5069 (24.93); 2.5025 (18.54); 2.2459 (0.49); 2.2373 (0.50); 2.2257 (0.53); 2.2173 (0.54); 2.2115 (0.77); 2.2029 (0.73); 2.1881 (0.42); 2.1535 (0.37); 2.1434 (0.39); 2.1393 (0.34); 2.1335 (0.37); 2.1294 (0.35); 2.1190 (0.51); 2.1045 (0.51); 2.0964 (0.73); 2.0828 (1.00); 2.0629 (1.15); 2.0478 (0.70); 2.0290 (0.42); 1.9938 (1.29); 1.1969 (0.35); 1.1791 (0.66); 1.1614 (0.34)
Example 12, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7576 (2.06); 7.7345 (3.08); 7.7167 (3.65); 7.7130 (2.74); 7.5665 (0.55); 7.5633 (0.42); 7.5548 (0.49); 7.5481 (1.79); 7.5426 (0.64); 7.5301 (1.62); 7.5040 (2.81); 7.4849 (3.46); 7.4674 (1.30); 7.4639 (0.97); 7.2555 (4.46); 5.7625 (2.56); 5.2861 (6.90); 4.1729 (0.33); 4.1617 (2.16); 4.1450 (4.50); 4.1283 (2.17); 3.3325 (76.53); 3.3085 (0.60); 3.0339 (16.00); 2.9930 (0.62); 2.5110 (32.54); 2.5067 (42.65); 2.5023 (31.20); 1.9936 (0.64); 1.6427 (1.23); 1.6256 (1.91); 1.6083 (1.33); 1.5910 (0.43); 1.3398 (1.29); 1.3306 (2.58); 1.3223 (4.17); 1.3130 (4.16); 1.3044 (2.61); 1.2388 (0.33); 1.1791 (0.38); 0.8967 (2.30); 0.8793 (6.15); 0.8616 (2.11)
Example 13, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1083 (2.32); 7.7383 (2.90); 7.7255 (1.04); 7.7205 (3.51); 7.7167 (2.62); 7.5682 (0.54); 7.5567 (0.47); 7.5497 (1.76); 7.5441 (0.65); 7.5349 (1.06); 7.5318 (1.60); 7.5068 (2.76); 7.4914 (1.91); 7.4876 (3.36); 7.4742 (0.69); 7.4701 (1.31); 7.4667 (0.87); 7.2592 (4.09); 5.7579 (2.07); 5.3244 (6.84); 3.3214 (68.27); 3.3016 (1.27); 3.0191 (16.00); 2.5157 (9.34); 2.5115 (18.35); 2.5070 (24.67); 2.5026 (18.27); 2.4986 (9.55); 2.4320 (2.28); 2.4136 (3.88); 2.3949 (2.39); 1.9935 (0.74); 1.6087 (0.56); 1.5905 (1.62); 1.5717 (2.29); 1.5532 (1.76); 1.5342 (0.75); 1.3431 (0.37); 1.3244 (1.27); 1.3055 (2.11); 1.2868 (2.15); 1.2686 (1.36); 1.2505 (0.58); 1.2402 (0.40); 1.1802 (0.44); 0.8973 (4.48); 0.8790 (8.83); 0.8606 (3.98)
Example 14, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7455 (1.91); 7.7336 (2.82); 7.7210 (1.05); 7.7159 (3.56); 7.7121 (2.61); 7.5665 (0.53); 7.5634 (0.40); 7.5550 (0.47); 7.5481 (1.75); 7.5424 (0.64); 7.5334 (1.07); 7.5301 (1.60); 7.5268 (0.91); 7.5045 (2.69); 7.4893 (1.90); 7.4854 (3.33); 7.4720 (0.69); 7.4679 (1.36); 7.4644 (1.02); 7.2529 (4.15); 5.7580 (2.45); 5.2874 (6.51); 4.1724 (2.20); 4.1558 (4.59); 4.1392 (2.30); 3.3209 (73.16); 3.0349 (16.00); 2.9949 (0.50); 2.5158 (9.29); 2.5114 (18.55); 2.5070 (25.08); 2.5025 (18.39); 2.4982 (9.44); 1.9936 (0.44); 1.6453 (0.50); 1.6283 (1.56); 1.6222 (0.70); 1.6108 (2.00); 1.5912 (1.74); 1.5746 (0.75); 1.4103 (0.35); 1.3917 (1.20); 1.3726 (1.96); 1.3538 (2.02); 1.3356 (1.25); 1.3173 (0.42); 0.9266 (4.37); 0.9082 (8.84); 0.8897 (3.94); 0.8633 (0.32)
Example 15, Solvent: DMSO, Spectrometer: 400,13 MHz
10.4985 (2.11); 8.0751 (1.44); 8.0545 (1.70); 7.8356 (1.29); 7.8161 (1.88); 7.7961 (1.20); 7.7272 (2.76); 7.7144 (0.97); 7.7094 (3.46); 7.7057 (2.61); 7.5692 (0.51); 7.5661 (0.38); 7.5572 (0.42); 7.5508 (1.67); 7.5453 (0.61); 7.5359 (0.96); 7.5327 (1.48); 7.5294 (0.88); 7.5021 (2.54); 7.4866 (1.78); 7.4829 (3.20); 7.4693 (0.63); 7.4653 (1.27); 7.4622 (0.83); 7.1441 (1.91); 7.1258 (1.81); 5.7585 (0.87); 5.3585 (6.77); 3.3210 (97.01); 3.0587 (16.00); 2.5160 (11.84); 2.5117 (24.12); 2.5072 (33.05); 2.5027 (24.80); 2.4984 (13.08); 2.4063 (2.03); 2.3880 (3.54); 2.3693 (2.20); 1.5971 (0.49); 1.5789 (1.43); 1.5601 (2.05); 1.5416 (1.57); 1.5228 (0.68); 1.3517 (0.34); 1.3331 (1.17); 1.3142 (1.91); 1.2955 (1.96); 1.2774 (1.24); 1.2593 (0.44); 0.9054 (4.07); 0.8872 (8.23); 0.8687 (3.69)
Example 16, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1548 (2.83); 7.8327 (0.59); 7.8116 (2.03); 7.7959 (4.35); 7.7924 (3.17); 7.7759 (0.74); 7.7267 (2.82); 7.7138 (1.00); 7.7089 (3.49); 7.7052 (2.59); 7.5671 (0.53); 7.5641 (0.40); 7.5553 (0.44); 7.5487 (1.69); 7.5432 (0.60); 7.5338 (0.97); 7.5306 (1.49); 7.5273 (0.87); 7.5004 (2.57); 7.4849 (1.81); 7.4813 (3.23); 7.4677 (0.62); 7.4637 (1.29); 7.4606 (0.83); 7.1056 (1.39); 7.1010 (1.44); 7.0896 (1.30); 7.0850 (1.35); 5.7586 (1.43); 5.3364 (6.81); 3.9986 (4.32); 3.9809 (4.44); 3.3202 (133.08); 3.2974 (1.78); 3.2478 (0.43); 3.0711 (16.00); 2.5159 (16.66); 2.5115 (33.31); 2.5070 (45.25); 2.5026 (33.44); 2.4983 (17.30); 2.3338 (0.33); 2.2373 (0.37); 2.2185 (0.83); 2.2000 (1.13); 2.1813 (0.89); 2.1629 (0.42); 1.9939 (0.36); 1.7481 (0.34); 1.7322 (0.71); 1.7197 (0.96); 1.7006 (1.16); 1.6878 (0.84); 1.6717 (0.54); 1.6171 (0.72); 1.5969 (1.19); 1.5804 (1.17); 1.5547 (0.92); 1.5425 (0.64); 1.5349 (1.18); 1.5262 (1.00); 1.5159 (1.25); 1.4967 (0.78); 1.4864 (0.48); 1.3142 (0.44); 1.2981 (0.96); 1.2815 (1.16); 1.2673 (1.08); 1.2500 (1.00)
Example 17, Solvent: DMSO, Spectrometer: 400,13 MHz
10.9907 (2.47); 8.1662 (1.80); 8.1457 (2.17); 7.9407 (1.37); 7.9212 (2.03); 7.9011 (1.38); 7.8921 (1.50); 7.8726 (1.77); 7.8651 (1.14); 7.8590 (1.18); 7.8401 (0.94); 7.8343 (1.10); 7.8302 (0.84); 7.7407 (2.86); 7.7228 (3.51); 7.7191 (2.65); 7.5985 (0.63); 7.5838 (0.80); 7.5781 (1.34); 7.5725 (0.86); 7.5693 (0.72); 7.5635 (1.45); 7.5587 (1.32); 7.5541 (2.01); 7.5484 (0.85); 7.5439 (1.09); 7.5391 (1.19); 7.5359 (1.67); 7.5063 (2.71); 7.4871 (3.43); 7.4792 (1.15); 7.4771 (1.12); 7.4697 (1.87); 7.4564 (1.22); 7.4505 (1.11); 7.4345 (0.58); 7.4298 (0.53); 7.2525 (1.99); 7.2341 (1.92); 5.7583 (2.56); 5.4273 (6.85); 4.0440 (0.46); 4.0262 (0.48); 3.3216 (62.10); 3.2635 (0.45); 3.0866 (16.00); 2.5157 (11.88); 2.5115 (23.07); 2.5070 (30.83); 2.5026 (22.71); 2.4984 (11.72); 1.9935 (2.00); 1.1980 (0.55); 1.1802 (1.07); 1.1624 (0.54)
Example 18, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1574 (2.74); 7.8335 (0.45); 7.8125 (2.33); 7.8044 (2.57); 7.7981 (5.52); 7.7835 (0.57); 7.7261 (2.75); 7.7133 (1.00); 7.7083 (3.46); 7.7046 (2.53); 7.5668 (0.53); 7.5551 (0.45); 7.5486 (1.70); 7.5430 (0.59); 7.5337 (0.99); 7.5304 (1.47); 7.5271 (0.83); 7.5002 (2.53); 7.4848 (1.79); 7.4811 (3.16); 7.4675 (0.61); 7.4635 (1.26); 7.4603 (0.77); 7.1058 (1.33); 7.0993 (1.33); 7.0916 (1.17); 7.0851 (1.27); 5.7586 (0.81); 5.3352 (6.89); 4.1135 (2.18); 4.0969 (4.56); 4.0803 (2.26); 3.3199 (123.98); 3.2974 (1.65); 3.2466 (0.43); 3.0700 (16.00); 2.5159 (16.11); 2.5115 (31.93); 2.5070 (43.10); 2.5025 (31.56); 2.4981 (16.17); 1.6332 (0.49); 1.6161 (1.46); 1.6098 (0.63); 1.5988 (1.89); 1.5793 (1.62); 1.5626 (0.70); 1.4204 (0.35); 1.4017 (1.17); 1.3826 (1.84); 1.3638 (1.87); 1.3457 (1.15); 1.3275 (0.38); 0.9319 (4.19); 0.9135 (8.44); 0.8951 (3.70)
Example 19, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5294 (1.59); 7.7395 (2.96); 7.7217 (3.52); 7.7180 (2.62); 7.5699 (0.52); 7.5585 (0.41); 7.5515 (1.73); 7.5460 (0.60); 7.5336 (1.56); 7.5075 (2.73); 7.4884 (3.34); 7.4749 (0.59); 7.4709 (1.23); 7.4677 (0.83); 7.3325 (4.63); 7.3036 (1.94); 7.2821 (3.54); 7.2636 (2.48); 6.9614 (1.16); 6.9430 (2.09); 6.9213 (3.45); 6.9193 (3.62); 6.8995 (3.04); 6.8745 (0.67); 6.8547 (0.61); 5.7576 (7.18); 5.3414 (6.67); 5.0710 (0.48); 5.0546

(1.66); 5.0380 (1.67); 5.0215 (0.47); 4.8193 (0.35); 4.8023 (0.36); 4.0438 (0.43); 4.0260 (0.43); 3.3243 (31.22); 3.2976 (0.51); 3.0193 (16.00); 2.5112 (16.98); 2.5068 (22.43); 2.5025 (16.19); 1.9934 (1.84); 1.5537 (6.33); 1.5372 (6.27); 1.5084 (1.60); 1.4914 (1.55); 1.1977 (0.50); 1.1799 (0.97); 1.1621 (0.48)
Example 20, Solvent: DMSO, Spectrometer: 400,13 MHz
12.8184 (0.79); 7.9522 (1.39); 7.9328 (1.87); 7.9302 (2.03); 7.9232 (1.21); 7.9043 (0.92); 7.8986 (1.06); 7.8944 (0.81); 7.7505 (2.86); 7.7328 (3.50); 7.7291 (2.65); 7.6359 (0.58); 7.6213 (0.71); 7.6156 (1.16); 7.6010 (1.22); 7.5963 (0.95); 7.5813 (0.86); 7.5730 (0.69); 7.5698 (0.55); 7.5615 (0.51); 7.5545 (1.81); 7.5486 (0.75); 7.5399 (1.10); 7.5365 (1.69); 7.5332 (1.10); 7.5236 (0.96); 7.5124 (2.95); 7.4972 (2.81); 7.4935 (3.80); 7.4804 (1.23); 7.4759 (1.84); 7.4033 (4.13); 5.7585 (2.30); 5.3933 (6.38); 3.3207 (94.77); 3.0251 (16.00); 2.5159 (15.95); 2.5115 (31.24); 2.5070 (42.01); 2.5026 (31.01); 2.4983 (16.05); 1.9937 (1.08); 1.1804 (0.60); 1.1626 (0.32)
Example 21, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8506 (1.17); 7.7812 (0.84); 7.7650 (1.91); 7.7608 (1.24); 7.7441 (0.38); 7.7251 (1.21); 7.7072 (1.45); 7.7036 (1.09); 7.5480 (0.72); 7.5297 (0.63); 7.4996 (1.08); 7.4804 (1.33); 7.4627 (0.54); 7.0797 (0.62); 7.0756 (0.64); 7.0635 (0.56); 7.0592 (0.56); 5.3201 (2.79); 3.3634 (296.68); 3.3409 (5.56); 3.0665 (6.33); 2.5114 (20.72); 2.5070 (27.49); 2.5027 (20.59); 1.9926 (0.59); 1.4657 (16.00); 1.3519 (0.95); 1.3258 (0.32); 1.3018 (0.57); 1.2479 (1.59); 1.1776 (0.35); 0.8776 (0.50); 0.8610 (1.44); 0.8434 (0.62)
Example 22, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2809 (0.68); 7.9559 (2.45); 7.8012 (0.44); 7.7827 (0.45); 7.7542 (0.59); 7.5933 (0.62); 7.5763 (0.76); 7.5723 (0.62); 7.4749 (0.36); 7.4574 (0.44); 7.4426 (0.79); 7.4239 (0.71); 7.1464 (0.42); 7.1282 (0.38); 5.2591 (1.46); 4.1891 (0.53); 4.1724 (1.13); 4.1557 (0.53); 3.3545 (11.64); 2.9169 (0.49); 2.9104 (0.92); 2.9037 (0.73); 2.8939 (16.00); 2.7343 (13.95); 2.5721 (0.33); 2.5656 (0.35); 2.5554 (0.71); 2.5488 (0.69); 2.5386 (0.50); 2.5289 (0.66); 2.5107 (16.80); 2.5064 (22.26); 2.5022 (16.29)
Example 23, Solvent: DMSO, Spectrometer: 400,13 MHz
7.9573 (0.37); 7.8215 (0.44); 7.8010 (0.38); 7.7687 (0.36); 7.7571 (0.37); 7.7329 (0.39); 7.6427 (6.99); 7.6251 (8.28); 7.6214 (5.86); 7.5318 (1.42); 7.5134 (4.14); 7.5075 (1.62); 7.4956 (4.03); 7.4750 (6.92); 7.4628 (5.13); 7.4600 (5.35); 7.4559 (7.63); 7.4433 (5.44); 7.4389 (3.11); 7.4245 (2.90); 6.5712 (4.72); 6.5530 (4.29); 6.4382 (4.75); 6.4174 (4.44); 6.2342 (1.45); 5.3354 (0.74); 5.2840 (0.39); 5.2036 (16.00); 2.8945 (1.61); 2.7352 (1.36); 2.6755 (0.58); 2.5106 (89.93); 2.5064 (117.56); 2.5022 (87.81); 2.3332 (0.77); 2.0801 (0.45); 1.4661 (0.44); 1.3663 (0.51)
Example 25, Solvent: DMSO, Spectrometer: 499,93 MHz
7.6204 (1.43); 7.6161 (1.82); 7.6090 (2.12); 7.6011 (1.97); 7.5108 (4.24); 7.5065 (3.96); 7.4998 (2.44); 7.4899 (0.61); 7.3940 (1.02); 7.3787 (1.60); 7.3630 (1.08); 6.4882 (1.74); 6.4738 (1.68); 6.3819 (1.77); 6.3654 (1.72); 5.9978 (2.42); 5.9845 (0.70); 5.1329 (6.30); 3.3423 (16.00); 3.3187 (1.72); 3.2748 (12.78); 2.5150 (6.35); 2.5118 (8.32); 2.5085 (6.37); 1.9993 (0.40)
Example 26, Solvent: DMSO, Spectrometer: 499,93 MHz
10.1670 (6.78); 7.8170 (0.80); 7.8000 (5.62); 7.7954 (6.11); 7.7896 (11.23); 7.7790 (1.06); 7.6251 (3.99); 7.6211 (5.06); 7.6141 (5.59); 7.6060 (5.42); 7.5141 (11.08); 7.5103 (10.73); 7.5035 (6.79); 7.5009 (5.93); 7.4926 (1.69); 7.4851 (0.50); 7.0871 (0.47); 7.0764 (2.89); 7.0703 (3.01); 7.0660 (2.72); 7.0600 (2.76); 7.0495 (0.35); 5.2849 (16.00); 4.1004 (4.60); 4.0870 (9.35); 4.0736 (4.60); 3.9135 (0.57); 3.4056 (0.54); 3.4000 (0.48); 3.3947 (0.60); 3.3823 (0.34); 3.3455 (28.74); 3.3219 (1.33); 3.2412 (32.31); 2.5150 (6.09); 2.5118 (7.70); 2.5086 (5.87); 1.6258 (2.65); 1.6122 (4.01); 1.5986 (2.87); 1.5854 (0.93); 1.3570 (0.76); 1.3299 (9.83); 1.3229 (7.95); 1.3156 (6.59); 1.2430 (0.60); 0.9010 (4.82); 0.8873 (11.07); 0.8734 (4.09); 0.8477 (0.32)
Example 27, Solvent: DMSO, Spectrometer: 399,95 MHz
12.6614 (1.15); 7.7421 (2.97); 7.7381 (1.73); 7.7337 (1.65); 7.7297 (2.20); 7.7245 (3.73); 7.7208 (2.69); 7.7115 (0.81); 7.6590 (0.35); 7.6545 (0.35); 7.6457 (0.43); 7.6407 (0.79); 7.6381 (0.67); 7.6362 (0.65); 7.6339 (0.56); 7.6271 (0.63); 7.6227 (0.74); 7.6199 (0.81); 7.6151 (0.48); 7.6062 (0.45); 7.6018 (0.40); 7.5662 (0.49); 7.5630 (0.34); 7.5548 (0.38); 7.5479 (1.67); 7.5420 (0.55); 7.5332 (1.02); 7.5298 (1.56); 7.5263 (0.85); 7.5048 (2.60); 7.4896 (1.77); 7.4859 (3.17); 7.4725 (0.57); 7.4684 (1.28); 7.4649 (0.78); 7.3945 (5.01); 7.3703 (1.05); 7.3648 (1.42); 7.3624 (1.65); 7.3437 (2.87); 7.3248 (0.97); 7.3224 (0.86); 5.3703 (6.26); 3.3387 (88.38); 3.0367 (16.00); 2.8907 (2.15); 2.7323 (1.76); 2.7311 (1.75); 2.5253 (0.70); 2.5119 (12.90); 2.5076 (24.75); 2.5031 (32.03); 2.4985 (23.64); 2.4941 (11.72); -0.0002 (2.90)
Example 28, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4655 (1.14); 7.9527 (0.99); 7.7392 (2.77); 7.7267 (0.81); 7.7216 (3.44); 7.7179 (2.52); 7.5665 (0.48); 7.5633 (0.32); 7.5551 (0.34); 7.5481 (1.66); 7.5423 (0.52); 7.5334 (0.94); 7.5301 (1.53); 7.5266 (0.81); 7.5045 (2.56); 7.4893 (1.64); 7.4855 (3.14); 7.4721 (0.49); 7.4680 (1.21); 7.4645 (0.73); 7.3366 (4.68); 7.2656 (0.68); 7.2628 (0.73); 7.2439 (0.97); 7.2364 (0.75); 7.2327 (0.77); 7.2161 (0.80); 7.2127 (0.84); 7.1310 (0.32); 7.1101 (1.28); 7.1067 (1.34); 7.1005 (1.10); 7.0930 (2.68); 7.0805 (1.09); 7.0759 (1.12); 7.0601 (0.40); 6.9975 (0.48); 6.9899 (0.48); 6.9859 (0.60); 6.9816 (0.71); 6.9773 (0.56); 6.9751 (0.51); 6.9682 (0.78); 6.9657 (0.70); 6.9632 (0.87); 6.9547 (0.32); 6.9481 (0.34); 5.3405 (6.14); 4.9435 (7.87); 3.3318 (62.16); 3.0274 (16.00); 2.8903 (7.39); 2.7317 (6.11); 2.7307 (5.95); 2.5248 (0.67); 2.5114 (13.19); 2.5070 (26.28); 2.5024 (34.60); 2.4978 (25.54); 2.4934 (12.50); -0.0002 (3.67)
Example 29, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8476 (1.94); 8.0189 (0.92); 7.9981 (1.14); 7.9532 (1.08); 7.8446 (1.33); 7.8254 (1.80); 7.8051 (1.16); 7.7317 (2.58); 7.7278 (1.28); 7.7190 (0.82); 7.7139 (3.41); 7.7101 (2.40); 7.5687 (0.49); 7.5568 (0.36); 7.5504 (1.66); 7.5446 (0.51); 7.5354 (0.90); 7.5321 (1.43); 7.5287 (0.73); 7.5015 (2.41); 7.4981 (1.07); 7.4860 (1.69); 7.4823 (3.11); 7.4687 (0.51); 7.4646 (1.26); 7.4614 (0.75); 7.4499 (1.15); 7.4432 (0.66); 7.4381 (1.17); 7.4343 (0.98); 7.4269 (2.33); 7.4200 (0.92); 7.4165 (1.17); 7.4107 (0.71); 7.4044 (1.37); 7.3272 (0.45); 7.3154 (3.00); 7.3088 (1.57); 7.3044 (1.99); 7.3026 (1.89); 7.2984 (1.35); 7.2920 (2.28); 7.1682 (1.80); 7.1498 (1.74); 5.3814 (6.18); 3.9278 (6.08); 3.3309 (77.15); 3.0671 (16.00); 2.8905 (8.60); 2.7319 (7.04); 2.5250 (0.86); 2.5201 (1.35); 2.5116 (14.93); 2.5071 (29.35); 2.5025 (38.25); 2.4979 (27.55); 2.4934 (13.01); -0.0002 (7.72)
Example 30, Solvent: DMSO, Spectrometer: 400,13 MHz

7.9623 (2.56); 7.5454 (4.64); 7.5077 (2.36); 7.4103 (1.46); 7.3904 (3.38); 7.3590 (6.53); 6.5101 (2.80); 6.4923 (2.68); 6.3971 (2.78); 6.3764 (2.66); 6.0256 (7.00); 5.1800 (9.75); 3.3528 (4.97); 3.0867 (16.00); 2.8990 (10.92); 2.7401 (10.31); 2.5122 (33.53); 2.3438 (15.48); 1.3684 (0.34)
Example 31, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4632 (2.02); 8.0550 (0.92); 8.0343 (1.16); 7.9530 (0.48); 7.8907 (1.24); 7.8714 (1.69); 7.8512 (1.08); 7.7316 (1.86); 7.7289 (2.49); 7.7250 (1.20); 7.7163 (0.73); 7.7111 (3.35); 7.7074 (2.31); 7.5666 (0.47); 7.5547 (0.35); 7.5483 (1.59); 7.5426 (0.46); 7.5334 (0.85); 7.5300 (1.40); 7.5266 (0.69); 7.4988 (2.28); 7.4953 (0.96); 7.4834 (1.56); 7.4796 (2.97); 7.4661 (0.46); 7.4620 (1.21); 7.4587 (0.68); 7.2092 (1.66); 7.1918 (1.59); 7.0301 (0.88); 7.0259 (0.69); 7.0100 (1.81); 7.0064 (1.26); 6.9842 (0.94); 6.9799 (2.12); 6.9755 (0.85); 6.9600 (3.36); 6.9556 (0.76); 6.9410 (0.94); 6.9369 (0.54); 6.8974 (1.18); 6.8932 (1.16); 6.8784 (0.97); 6.8741 (1.28); 6.8593 (0.54); 6.8552 (0.51); 5.3901 (5.77); 4.7685 (6.26); 3.8129 (15.55); 3.3339 (69.55); 3.0703 (16.00); 2.8906 (4.10); 2.7322 (3.23); 2.7310 (3.16); 2.5252 (0.57); 2.5204 (0.92); 2.5119 (11.58); 2.5074 (23.25); 2.5028 (30.71); 2.4981 (22.16); 2.4936 (10.43); -0.0002 (2.85)
Example 32, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5046 (1.97); 8.0714 (1.21); 8.0507 (1.44); 7.8316 (1.26); 7.8123 (1.72); 7.7920 (1.17); 7.7263 (1.95); 7.7238 (2.53); 7.7199 (1.25); 7.7111 (0.79); 7.7060 (3.46); 7.7022 (2.34); 7.5642 (0.48); 7.5523 (0.36); 7.5459 (1.62); 7.5401 (0.48); 7.5309 (0.87); 7.5276 (1.41); 7.5242 (0.70); 7.4964 (2.38); 7.4930 (1.00); 7.4811 (1.63); 7.4773 (3.05); 7.4638 (0.48); 7.4596 (1.23); 7.4564 (0.67); 7.1398 (1.73); 7.1223 (1.69); 5.3535 (6.09); 3.3302 (50.68); 3.0535 (16.00); 2.5256 (0.54); 2.5207 (0.86); 2.5122 (10.08); 2.5077 (19.99); 2.5031 (26.30); 2.4985 (19.01); 2.4939 (8.99); 2.3905 (1.50); 2.3722 (2.83); 2.3536 (1.64); 1.5818 (0.77); 1.5641 (1.11); 1.5463 (0.74); 1.2705 (3.87); 1.2642 (4.45); 1.2541 (3.48); 1.2368 (1.95); 0.8754 (0.76); 0.8701 (1.75); 0.8624 (1.34); 0.8532 (5.74); 0.8356 (1.92); -0.0002 (6.01)
Example 33, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1847 (2.26); 7.8318 (0.33); 7.8107 (2.37); 7.8045 (2.45); 7.7972 (5.68); 7.7836 (0.38); 7.7228 (2.60); 7.7190 (1.28); 7.7102 (0.77); 7.7051 (3.36); 7.7013 (2.32); 7.5624 (0.48); 7.5505 (0.36); 7.5440 (1.64); 7.5383 (0.49); 7.5291 (0.89); 7.5258 (1.43); 7.5224 (0.73); 7.4955 (2.41); 7.4921 (1.03); 7.4802 (1.66); 7.4764 (3.07); 7.4629 (0.48); 7.4588 (1.21); 7.4555 (0.67); 7.1023 (1.29); 7.0950 (1.29); 7.0888 (1.06); 7.0815 (1.24); 5.3323 (6.65); 4.0624 (2.38); 4.0456 (5.06); 4.0289 (2.42); 3.3316 (57.81); 3.0663 (16.00); 2.8908 (2.35); 2.7322 (1.84); 2.7312 (1.85); 2.5254 (0.53); 2.5205 (0.81); 2.5120 (10.19); 2.5075 (20.50); 2.5029 (27.14); 2.4983 (19.73); 2.4938 (9.45); 1.6509 (1.17); 1.6337 (2.43); 1.6154 (2.49); 1.5982 (1.26); 0.9367 (4.25); 0.9183 (8.68); 0.8997 (3.83); -0.0002 (9.66)
Example 34, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6207 (1.46); 10.5100 (0.68); 8.0663 (0.64); 8.0593 (0.96); 8.0456 (0.78); 8.0385 (1.14); 7.9533 (0.80); 7.9271 (0.69); 7.9082 (0.92); 7.8871 (0.68); 7.8441 (1.02); 7.8340 (0.57); 7.8247 (1.43); 7.8147 (0.71); 7.8046 (0.91); 7.7944 (0.43); 7.7548 (2.52); 7.7369 (3.27); 7.7332 (2.45); 7.7232 (2.85); 7.7053 (3.56); 7.7016 (2.53); 7.5895 (0.51); 7.5865 (0.32); 7.5769 (0.39); 7.5711 (1.62); 7.5655 (0.94); 7.5528 (1.58); 7.5471 (1.90); 7.5414 (0.54); 7.5318 (1.02); 7.5287 (1.53); 7.5254 (0.83); 7.5132 (2.27); 7.4977 (4.11); 7.4940 (3.92); 7.4790 (3.78); 7.4652 (0.59); 7.4613 (1.28); 7.4582 (0.75); 7.1532 (1.37); 7.1348 (1.37); 7.1217 (0.59); 6.9698 (0.93); 6.9412 (1.41); 6.9229 (1.13); 5.3831 (5.27); 5.3573 (5.56); 4.2783 (1.44); 4.2607 (2.68); 4.2431 (1.49); 3.6906 (1.84); 3.6740 (3.88); 3.6576 (1.90); 3.4255 (3.69); 3.4089 (8.93); 3.3836 (60.04); 3.2564 (0.33); 3.2516 (0.35); 3.2395 (0.33); 3.2334 (0.32); 3.0626 (16.00); 3.0570 (15.53); 2.8913 (4.82); 2.7316 (3.93); 2.6729 (0.42); 2.5715 (1.35); 2.5534 (2.62); 2.5449 (1.30); 2.5349 (1.99); 2.5310 (2.66); 2.5261 (1.54); 2.5127 (25.60); 2.5084 (49.26); 2.5038 (63.69); 2.4993 (46.36); 2.4949 (22.25); 2.4447 (1.04); 2.4382 (0.67); 2.4249 (2.44); 2.4201 (1.20); 2.4040 (1.62); 2.3306 (0.42); 2.1795 (0.34); 2.1618 (0.91); 2.1590 (0.59); 2.1419 (1.07); 2.1230 (0.71); 2.0522 (0.43); 2.0353 (1.34); 2.0175 (1.87); 2.0002 (1.21); 1.9828 (0.35); 1.7324 (0.48); 1.7141 (0.67); 1.6965 (0.49); 1.2345 (0.33); -0.0002 (4.61)
Example 35, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8718 (2.00); 8.0528 (1.58); 8.0323 (1.90); 7.8250 (1.35); 7.8057 (1.88); 7.7855 (1.22); 7.7280 (2.71); 7.7243 (1.36); 7.7153 (0.85); 7.7102 (3.47); 7.7064 (2.56); 7.5663 (0.49); 7.5632 (0.32); 7.5545 (0.36); 7.5480 (1.68); 7.5424 (0.51); 7.5331 (0.91); 7.5298 (1.44); 7.5264 (0.75); 7.4999 (2.50); 7.4845 (1.70); 7.4808 (3.17); 7.4672 (0.49); 7.4631 (1.22); 7.4599 (0.70); 7.1412 (1.90); 7.1230 (1.83); 5.3661 (6.68); 3.3300 (61.03); 3.0561 (16.00); 2.8908 (2.33); 2.7318 (1.87); 2.5252 (0.58); 2.5119 (10.86); 2.5074 (21.30); 2.5029 (27.86); 2.4983 (20.28); 2.4938 (9.71); 2.0339 (0.48); 2.0293 (0.53); 2.0233 (0.42); 2.0162 (0.94); 2.0088 (0.39); 2.0030 (0.53); 1.9987 (0.53); 0.8757 (0.45); 0.8129 (4.44); 0.8057 (3.17); 0.7929 (2.42); 0.7862 (0.84); -0.0002 (4.96)
Example 36, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2460 (0.33); 7.8570 (0.58); 5.3910 (0.69); 4.1415 (0.46); 3.8432 (1.77); 3.4129 (16.00); 3.1113 (1.64); 2.5736 (1.01); 2.5693 (2.12); 2.5648 (2.89); 2.5604 (2.08); 2.5560 (0.97); 1.3848 (0.40); 0.9402 (0.53)
Example 37, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5318 (2.14); 8.0721 (1.28); 8.0515 (1.53); 7.8370 (1.30); 7.8177 (1.81); 7.7975 (1.19); 7.7260 (2.07); 7.7237 (2.64); 7.7199 (1.29); 7.7110 (0.84); 7.7059 (3.46); 7.7021 (2.42); 7.5647 (0.49); 7.5615 (0.32); 7.5528 (0.37); 7.5464 (1.67); 7.5407 (0.51); 7.5314 (0.90); 7.5281 (1.44); 7.5248 (0.73); 7.4974 (2.45); 7.4940 (1.08); 7.4820 (1.70); 7.4783 (3.14); 7.4646 (0.50); 7.4606 (1.23); 7.4574 (0.70); 7.1450 (1.82); 7.1266 (1.78); 5.3564 (6.32); 3.3326 (72.03); 3.0560 (16.00); 2.8909 (0.99); 2.7639 (1.41); 2.7572 (3.09); 2.7506 (1.43); 2.7321 (0.80); 2.5253 (0.68); 2.5121 (11.45); 2.5076 (22.26); 2.5030 (29.03); 2.4984 (21.05); 2.4939 (10.05); 2.4166 (1.58); 2.3984 (3.10); 2.3798 (1.72); 2.1999 (1.12); 2.1932 (1.17); 2.1821 (2.56); 2.1755 (2.49); 2.1646 (1.31); 2.1580 (1.20); 1.6938 (0.36); 1.6755 (1.08); 1.6567 (1.47); 1.6505 (0.82); 1.6378 (1.18); 1.6189 (0.49); 1.4968 (0.52); 1.4789 (1.36); 1.4654 (0.87); 1.4592 (1.53); 1.4479 (0.46); 1.4409 (1.10); -0.0002 (5.85)
Example 38, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4201 (0.81); 7.9526 (1.01); 7.7385 (2.70); 7.7346 (1.31); 7.7261 (0.76); 7.7209 (3.49); 7.7171 (2.41); 7.5667 (0.47); 7.5553 (0.33); 7.5484 (1.67); 7.5425 (0.50); 7.5337 (0.91); 7.5303 (1.51); 7.5268 (0.77); 7.5047 (2.55); 7.5014 (1.08); 7.4896 (1.59); 7.4856 (3.10); 7.4724 (0.48); 7.4682 (1.22); 7.4647 (0.67); 7.3371 (4.84); 7.1550 (1.82); 7.1490 (0.60); 7.1378 (0.81); 7.1322 (3.25); 7.1280 (0.77); 7.1219 (0.34); 7.1168

(0.72); 7.1107 (2.55); 7.0018 (2.50); 6.9957 (0.79); 6.9909 (2.55); 6.9848 (1.20); 6.9788 (1.83); 6.9739 (0.69); 6.9678 (1.79); 5.3423 (5.97); 4.8284 (7.85); 3.3366 (94.01); 3.0211 (16.00); 2.8904 (8.13); 2.7319 (6.30); 2.7309 (6.69); 2.5252 (0.62); 2.5205 (0.97); 2.5119 (12.85); 2.5074 (25.82); 2.5028 (34.30); 2.4982 (24.98); 2.4937 (11.95); -0.0002 (1.87)
Example 39, Solvent: DMSO, Spectrometer: 300,16 MHz
10.0097 (2.45); 7.8064 (1.40); 7.7537 (3.31); 7.7417 (3.41); 7.7253 (3.44); 7.5382 (1.67); 7.5166 (2.48); 7.4949 (2.76); 7.1091 (1.48); 7.0870 (1.40); 5.3399 (5.03); 3.3558 (7.80); 3.3512 (7.52); 3.0891 (8.18); 3.0850 (8.18); 2.9282 (2.25); 2.8184 (4.78); 2.5210 (9.14); 1.5191 (16.00); 1.3792 (0.78); 1.2615 (1.92); 0.8795 (0.98)
Example 40, Solvent: DMSO, Spectrometer: 399,95 MHz
9.7892 (1.97); 8.0289 (1.61); 8.0091 (1.98); 7.8398 (1.33); 7.8207 (1.78); 7.8003 (1.20); 7.7243 (2.79); 7.7204 (1.43); 7.7115 (0.91); 7.7064 (3.71); 7.7027 (2.50); 7.5638 (0.52); 7.5606 (0.36); 7.5518 (0.40); 7.5455 (1.71); 7.5398 (0.55); 7.5305 (0.92); 7.5272 (1.47); 7.5239 (0.78); 7.4957 (2.58); 7.4923 (1.14); 7.4802 (1.80); 7.4765 (3.26); 7.4629 (0.52); 7.4588 (1.29); 7.4557 (0.73); 7.1532 (1.79); 7.1357 (1.71); 5.3794 (6.29); 3.3277 (50.30); 3.0878 (0.59); 3.0757 (16.00); 2.8908 (1.39); 2.7321 (1.09); 2.7312 (1.09); 2.5250 (0.66); 2.5117 (12.62); 2.5072 (24.96); 2.5026 (32.84); 2.4980 (23.92); 2.4935 (11.50); 2.1329 (0.75); 2.1212 (0.72); 2.1045 (0.76); 2.0921 (0.69); 1.5114 (0.71); 1.4957 (0.88); 1.4756 (1.03); 1.4525 (0.48); 1.4384 (0.46); 1.3871 (0.33); 1.3621 (0.73); 1.3517 (0.68); 1.3366 (0.97); 1.2984 (1.77); 1.2716 (1.59); 1.2531 (0.78); 1.2457 (0.85); 1.2378 (0.87); 1.1964 (11.91); 1.1791 (0.56); 1.0784 (1.14); 0.8758 (0.58); 0.8623 (0.36); 0.0080 (0.45); -0.0002 (12.32); -0.0085 (0.41)
Example 41, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7635 (1.63); 7.6175 (3.88); 7.5970 (4.40); 7.3056 (3.82); 7.2853 (3.30); 7.2404 (4.71); 5.2588 (7.03); 4.1594 (2.19); 4.1427 (4.54); 4.1260 (2.21); 3.4666 (0.54); 3.4647 (0.51); 3.4155 (8.00); 3.3657 (567.17); 3.3160 (5.69); 3.0145 (16.00); 2.6768 (0.48); 2.6722 (0.36); 2.5618 (0.82); 2.5576 (1.04); 2.5532 (0.80); 2.5120 (62.60); 2.5078 (80.97); 2.5037 (60.79); 2.4624 (0.90); 2.4583 (0.98); 2.3518 (11.48); 2.3347 (0.83); 1.9934 (0.53); 1.6405 (1.26); 1.6235 (1.99); 1.6063 (1.44); 1.5902 (0.51); 1.3285 (2.73); 1.3204 (4.35); 1.3110 (4.54); 1.3023 (3.00); 1.2702 (0.89); 1.2482 (2.14); 1.1781 (0.32); 0.8955 (2.32); 0.8782 (7.02); 0.8705 (2.97); 0.8613 (4.37); 0.8439 (1.25)
Example 42, Solvent: DMSO, Spectrometer: 400,13 MHz
11.0254 (2.58); 8.1759 (1.76); 8.1554 (2.12); 7.9478 (1.32); 7.9283 (1.92); 7.9083 (1.24); 7.8924 (1.34); 7.8899 (1.11); 7.8729 (1.66); 7.8705 (1.45); 7.8610 (1.03); 7.8575 (0.71); 7.8421 (0.83); 7.8362 (0.96); 7.8320 (0.71); 7.6408 (0.66); 7.6367 (0.98); 7.6310 (0.91); 7.6199 (1.28); 7.6163 (1.45); 7.6113 (1.18); 7.6030 (2.24); 7.6008 (2.41); 7.5875 (0.76); 7.5819 (1.16); 7.5676 (1.38); 7.5624 (0.93); 7.5565 (0.92); 7.5501 (1.40); 7.5360 (1.28); 7.5309 (0.66); 7.5154 (0.61); 7.4861 (0.59); 7.4841 (0.64); 7.4795 (0.58); 7.4627 (1.00); 7.4573 (0.90); 7.4400 (0.81); 7.4371 (0.99); 7.4157 (0.94); 7.4120 (0.87); 7.3973 (0.43); 7.3948 (0.45); 7.3912 (0.42); 7.3887 (0.38); 7.2648 (1.94); 7.2466 (1.85); 5.4490 (6.50); 4.0438 (0.49); 4.0260 (0.50); 3.3947 (0.56); 3.3445 (30.39); 3.2944 (0.40); 3.0831 (16.00); 2.5647 (0.40); 2.5602 (0.50); 2.5323 (0.59); 2.5186 (12.69); 2.5143 (26.30); 2.5099 (35.79); 2.5054 (25.86); 2.5011 (12.23); 2.4644 (0.36); 2.4598 (0.39); 1.9965 (2.17); 1.2490 (0.82); 1.1987 (0.60); 1.1809 (1.16); 1.1631 (0.56); 0.8798 (0.37); 0.8631 (1.17); 0.8455 (0.46)
Example 43, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7323 (2.93); 7.7195 (0.96); 7.7145 (3.65); 7.7108 (2.62); 7.5658 (0.54); 7.5627 (0.37); 7.5542 (0.45); 7.5475 (1.78); 7.5418 (0.57); 7.5327 (1.08); 7.5294 (1.59); 7.5261 (0.85); 7.5023 (2.72); 7.4870 (1.88); 7.4832 (3.39); 7.4697 (0.57); 7.4657 (1.30); 7.4623 (0.78); 7.3826 (1.70); 7.3779 (1.99); 7.3746 (2.56); 7.3615 (3.01); 7.3567 (3.52); 7.3439 (1.57); 7.2839 (1.87); 7.2796 (0.72); 7.2656 (3.56); 7.2463 (1.91); 7.1900 (1.24); 7.1870 (0.76); 7.1765 (0.61); 7.1718 (1.68); 7.1668 (0.48); 7.1536 (0.59); 7.0849 (1.44); 7.0648 (1.49); 6.4965 (2.07); 6.4788 (1.99); 6.4067 (1.60); 6.3858 (1.55); 5.1787 (6.38); 5.0182 (0.49); 5.0001 (0.70); 4.9823 (0.48); 3.3856 (0.80); 3.3356 (42.56); 3.3119 (0.34); 3.2856 (0.63); 2.9802 (16.00); 2.5186 (4.40); 2.5142 (8.84); 2.5097 (11.86); 2.5053 (8.48); 2.5009 (3.99); 1.9177 (0.32); 1.4203 (5.64); 1.4031 (5.60)
Example 44, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8984 (2.13); 8.1729 (1.55); 8.1528 (1.85); 7.9531 (0.60); 7.9259 (1.20); 7.9065 (1.70); 7.8863 (1.11); 7.7360 (2.46); 7.7322 (1.21); 7.7235 (0.71); 7.7183 (3.19); 7.7146 (2.25); 7.6143 (1.14); 7.6119 (0.98); 7.5953 (3.17); 7.5888 (1.86); 7.5676 (0.46); 7.5558 (0.32); 7.5493 (1.55); 7.5436 (0.46); 7.5344 (0.84); 7.5311 (1.37); 7.5277 (0.69); 7.5013 (2.26); 7.4979 (0.98); 7.4859 (1.52); 7.4821 (2.90); 7.4685 (0.44); 7.4645 (1.15); 7.4612 (0.65); 7.4367 (1.07); 7.4165 (1.89); 7.3971 (1.13); 7.2329 (1.70); 7.2149 (1.65); 7.1635 (0.94); 7.1615 (1.01); 7.1571 (0.97); 7.1551 (0.93); 7.1430 (0.79); 7.1404 (0.80); 7.1370 (0.80); 7.1344 (0.73); 5.4218 (5.82); 3.8501 (16.00); 3.8030 (0.36); 3.3414 (75.06); 3.0860 (14.99); 2.8908 (4.68); 2.7323 (3.81); 2.7313 (3.75); 2.5257 (0.56); 2.5209 (0.89); 2.5124 (10.84); 2.5079 (21.59); 2.5034 (28.45); 2.4988 (20.65); 2.4943 (9.83); -0.0002 (2.50)
Example 45, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1700 (2.41); 7.9533 (0.33); 7.8296 (0.37); 7.8086 (2.07); 7.8002 (2.23); 7.7940 (5.01); 7.7793 (0.42); 7.7250 (1.89); 7.7224 (2.42); 7.7186 (1.20); 7.7099 (0.75); 7.7047 (3.18); 7.7010 (2.23); 7.5626 (0.46); 7.5508 (0.35); 7.5443 (1.53); 7.5385 (0.47); 7.5294 (0.83); 7.5260 (1.34); 7.5226 (0.69); 7.4957 (2.25); 7.4923 (0.99); 7.4803 (1.55); 7.4766 (2.88); 7.4630 (0.44); 7.4589 (1.14); 7.4557 (0.64); 7.1023 (1.23); 7.0959 (1.22); 7.0879 (1.05); 7.0815 (1.16); 5.3309 (6.06); 4.0886 (1.69); 4.0718 (3.60); 4.0549 (1.71); 3.3454 (102.18); 3.0662 (14.92); 2.8915 (2.58); 2.7329 (2.10); 2.7317 (2.05); 2.5263 (0.57); 2.5130 (9.66); 2.5086 (19.08); 2.5040 (25.08); 2.4994 (18.29); 2.4948 (8.80); 1.6430 (0.43); 1.6259 (1.03); 1.6119 (0.85); 1.6067 (1.14); 1.5995 (0.86); 1.5861 (1.36); 1.5686 (1.08); 1.5515 (0.95); 1.5348 (0.80); 1.5182 (0.43); 1.2581 (1.01); 1.2450 (0.92); 1.2408 (1.40); 1.2381 (1.35); 1.2324 (0.97); 1.2283 (0.83); 1.2188 (1.38); 1.2013 (0.73); 0.8893 (0.94); 0.8808 (16.00); 0.8731 (1.37); 0.8643 (15.22); -0.0002 (1.46)
Example 46, Solvent: DMSO, Spectrometer: 399,95 MHz
11.0119 (1.84); 8.0896 (0.97); 8.0687 (1.17); 7.9529 (1.27); 7.8574 (1.18); 7.8381 (1.61); 7.8178 (1.08); 7.7108 (1.82); 7.7083 (2.40); 7.7045 (1.13); 7.6955 (0.72); 7.6905 (3.19); 7.6867 (2.22); 7.5581 (0.48); 7.5549 (0.32); 7.5459 (0.37); 7.5398 (1.54); 7.5342 (0.49); 7.5247 (0.81); 7.5214 (1.29); 7.5180 (0.65); 7.4867 (2.20); 7.4832 (0.91); 7.4712 (1.56); 7.4675 (2.88); 7.4538 (0.46); 7.4498 (1.17); 7.4467 (0.65); 7.3600

(0.94); 7.3575 (0.84); 7.3465 (16.00); 7.3391 (7.90); 7.3325 (7.19); 7.3258 (0.98); 7.3181 (1.80); 7.3142 (1.05); 7.3116 (1.13); 7.2767 (1.35); 7.2697 (1.65); 7.2631 (1.38); 7.2609 (1.35); 7.2550 (1.78); 7.2473 (0.99); 7.2413 (0.72); 7.2336 (0.47); 7.1685 (1.64); 7.1507 (1.59); 5.4111 (1.96); 5.3530 (5.42); 4.1499 (0.33); 4.1321 (0.33); 3.3723 (0.49); 3.3414 (160.75); 3.0220 (15.01); 2.8903 (10.82); 2.7319 (8.39); 2.7310 (8.34); 2.5255 (0.83); 2.5207 (1.35); 2.5122 (15.28); 2.5076 (30.21); 2.5030 (39.63); 2.4984 (28.45); 2.4939 (13.26); 1.1843 (0.35); 1.1666 (0.74); 1.1488 (0.36); -0.0002 (8.12)
Example 47, Solvent: DMSO, Spectrometer: 399,95 MHz
11.7568 (1.08); 7.7382 (0.48); 7.7303 (2.52); 7.7174 (1.00); 7.7123 (3.26); 7.7085 (2.27); 7.5623 (0.53); 7.5590 (0.36); 7.5508 (0.41); 7.5440 (1.80); 7.5381 (0.56); 7.5293 (1.03); 7.5259 (1.61); 7.5224 (0.80); 7.4998 (2.66); 7.4965 (1.17); 7.4847 (1.78); 7.4808 (3.32); 7.4674 (0.54); 7.4633 (1.30); 7.4597 (0.76); 7.2522 (3.78); 5.2823 (5.46); 4.1986 (1.61); 4.1815 (3.38); 4.1644 (1.62); 4.0909 (0.42); 4.0374 (0.33); 4.0220 (0.34); 3.9781 (0.34); 3.9613 (0.33); 3.3283 (60.16); 3.0484 (0.43); 3.0294 (13.57); 2.9949 (0.45); 2.8908 (2.32); 2.7321 (1.85); 2.7310 (1.78); 2.5250 (0.60); 2.5202 (1.00); 2.5117 (13.08); 2.5071 (26.34); 2.5025 (34.91); 2.4979 (25.44); 2.4934 (12.20); 1.6951 (0.60); 1.6782 (0.78); 1.6614 (0.69); 1.6447 (0.43); 1.5447 (1.01); 1.5277 (2.84); 1.5106 (2.51); 1.4933 (0.84); 1.4862 (0.37); 1.2348 (0.38); 1.1205 (0.57); 1.1053 (0.57); 0.9225 (0.69); 0.9097 (16.00); 0.8931 (15.47); 0.8788 (2.11); 0.8725 (1.79); 0.8603 (1.01); 0.8137 (0.96); 0.8064 (0.35); 0.7971 (0.92); 0.7900 (0.36); 0.0080 (0.40); -0.0002 (12.62); -0.0085 (0.42)
Example 48, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5510 (1.98); 8.0744 (1.17); 8.0536 (1.40); 7.8447 (1.34); 7.8253 (1.81); 7.8052 (1.17); 7.7233 (2.71); 7.7196 (1.30); 7.7104 (0.82); 7.7055 (3.48); 7.7017 (2.39); 7.5639 (0.49); 7.5520 (0.36); 7.5455 (1.69); 7.5399 (0.48); 7.5306 (0.89); 7.5273 (1.42); 7.5240 (0.73); 7.4964 (2.50); 7.4808 (1.71); 7.4772 (3.18); 7.4635 (0.49); 7.4595 (1.22); 7.4564 (0.70); 7.1539 (1.85); 7.1357 (1.74); 5.3768 (0.36); 5.3585 (6.41); 3.6536 (1.84); 3.6379 (4.14); 3.6223 (1.96); 3.4447 (1.40); 3.4272 (4.47); 3.4097 (4.54); 3.3922 (1.48); 3.3337 (93.21); 3.0551 (16.00); 2.8906 (1.56); 2.7311 (1.26); 2.6422 (1.75); 2.6266 (3.60); 2.6109 (1.65); 2.5252 (0.55); 2.5118 (11.81); 2.5074 (23.64); 2.5028 (31.28); 2.4982 (22.84); 2.4937 (10.97); 1.0934 (4.59); 1.0759 (9.31); 1.0584 (4.44); -0.0002 (5.00)
Example 49, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2863 (2.97); 7.9533 (0.95); 7.8241 (0.78); 7.8031 (1.97); 7.7856 (2.37); 7.7725 (2.64); 7.7537 (1.10); 7.7217 (3.16); 7.7037 (3.78); 7.7001 (2.94); 7.6773 (0.33); 7.5623 (0.72); 7.5593 (0.63); 7.5446 (4.04); 7.5258 (1.82); 7.4949 (2.93); 7.4756 (3.65); 7.4579 (1.56); 7.4307 (1.31); 7.4111 (1.55); 7.3381 (1.16); 7.3189 (2.10); 7.2857 (2.27); 7.2664 (2.76); 7.2613 (1.04); 7.2466 (1.27); 7.1057 (1.74); 7.1035 (1.80); 7.0884 (1.71); 7.0861 (1.70); 5.3324 (7.17); 5.3085 (0.52); 4.3076 (1.89); 4.2910 (4.10); 4.2744 (2.04); 3.3303 (65.47); 3.3068 (4.07); 3.0606 (16.00); 3.0371 (0.88); 3.0206 (0.32); 3.0046 (0.32); 2.9542 (1.75); 2.9377 (3.46); 2.9213 (1.76); 2.8906 (6.69); 2.8670 (0.33); 2.7316 (5.59); 2.5112 (17.01); 2.5072 (30.80); 2.5027 (39.61); 2.4983 (29.86); 2.4795 (3.61); 1.2347 (0.39); 0.0075 (0.44); -0.0002 (6.95); -0.0082 (0.42)
Example 50, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5452 (0.92); 7.9531 (0.69); 7.7390 (1.89); 7.7362 (2.54); 7.7323 (1.20); 7.7239 (0.75); 7.7187 (3.36); 7.7149 (2.29); 7.5664 (0.47); 7.5549 (0.33); 7.5481 (1.60); 7.5422 (0.48); 7.5334 (0.88); 7.5300 (1.44); 7.5264 (0.71); 7.5035 (2.35); 7.5001 (0.98); 7.4885 (1.53); 7.4845 (2.93); 7.4711 (0.46); 7.4670 (1.18); 7.4635 (0.64); 7.3334 (4.28); 7.1878 (0.92); 7.1675 (1.79); 7.1483 (0.76); 7.1463 (0.93); 6.5383 (0.76); 6.5358 (0.89); 6.5334 (0.98); 6.5309 (1.00); 6.5163 (0.79); 6.5118 (1.14); 6.5106 (1.09); 6.4930 (0.98); 6.4866 (2.77); 6.4834 (3.02); 6.4656 (1.11); 6.4598 (0.75); 5.3393 (5.31); 5.0533 (0.34); 5.0369 (1.31); 5.0204 (1.32); 5.0038 (0.34); 3.6961 (16.00); 3.3466 (81.44); 3.0198 (0.71); 3.0116 (15.09); 2.8909 (5.66); 2.7329 (4.46); 2.7317 (4.50); 2.5266 (0.40); 2.5217 (0.63); 2.5132 (8.04); 2.5087 (16.11); 2.5041 (21.24); 2.4994 (15.32); 2.4949 (7.20); 1.5351 (4.98); 1.5186 (4.92); -0.0002 (1.37)
Example 51, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6093 (1.98); 8.0360 (0.78); 8.0154 (0.99); 7.9529 (0.47); 7.8853 (1.19); 7.8660 (1.63); 7.8458 (1.02); 7.7312 (1.80); 7.7287 (2.34); 7.7248 (1.12); 7.7160 (0.68); 7.7109 (3.10); 7.7071 (2.15); 7.5671 (0.44); 7.5488 (1.49); 7.5431 (0.43); 7.5338 (0.79); 7.5305 (1.29); 7.5271 (0.63); 7.4993 (2.15); 7.4958 (0.89); 7.4838 (1.48); 7.4801 (2.78); 7.4665 (0.42); 7.4624 (1.13); 7.4592 (0.61); 7.2131 (1.01); 7.2054 (1.79); 7.1976 (0.51); 7.1935 (1.04); 7.1885 (1.85); 7.1714 (1.26); 6.5619 (0.61); 6.5590 (0.91); 6.5572 (0.94); 6.5543 (1.15); 6.5382 (4.39); 6.5340 (3.31); 6.5272 (0.69); 6.5232 (1.17); 6.5201 (0.90); 6.5153 (0.44); 5.3850 (5.51); 4.7744 (5.49); 3.7264 (16.00); 3.3359 (75.79); 3.0697 (14.58); 2.8905 (3.90); 2.7320 (3.10); 2.7309 (3.03); 2.5253 (0.55); 2.5205 (0.87); 2.5119 (10.89); 2.5074 (21.83); 2.5028 (28.72); 2.4982 (20.67); 2.4937 (9.70); -0.0002 (2.40)
Example 52, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5643 (1.54); 8.0510 (0.88); 8.0302 (1.05); 7.9531 (0.40); 7.8350 (1.27); 7.8157 (1.73); 7.7955 (1.16); 7.7264 (1.89); 7.7239 (2.51); 7.7200 (1.26); 7.7113 (0.78); 7.7061 (3.47); 7.7024 (2.31); 7.5651 (0.48); 7.5533 (0.35); 7.5468 (1.58); 7.5411 (0.47); 7.5319 (0.85); 7.5286 (1.40); 7.5251 (0.70); 7.4982 (2.36); 7.4947 (1.02); 7.4829 (1.58); 7.4791 (2.98); 7.4655 (0.46); 7.4614 (1.19); 7.4582 (0.66); 7.1454 (1.72); 7.1281 (1.65); 5.3545 (6.40); 3.3372 (100.07); 3.0527 (16.00); 2.8909 (3.30); 2.7322 (2.56); 2.7312 (2.58); 2.5257 (0.58); 2.5208 (0.94); 2.5123 (10.62); 2.5078 (21.02); 2.5032 (27.63); 2.4986 (19.95); 2.4941 (9.41); 2.0857 (14.04); 2.0777 (0.59); 1.2832 (0.34); 0.8757 (0.59); 0.8624 (0.34); -0.0002 (5.06)
Example 53, Solvent: DMSO, Spectrometer: 399,95 MHz
11.7519 (1.32); 7.7380 (0.41); 7.7325 (2.01); 7.7297 (2.63); 7.7258 (1.33); 7.7173 (0.93); 7.7121 (3.48); 7.7083 (2.41); 7.5624 (0.50); 7.5591 (0.34); 7.5509 (0.37); 7.5441 (1.71); 7.5382 (0.54); 7.5293 (0.98); 7.5259 (1.56); 7.5224 (0.79); 7.4998 (2.58); 7.4965 (1.15); 7.4848 (1.73); 7.4808 (3.20); 7.4674 (0.55); 7.4633 (1.31); 7.4598 (0.78); 7.2507 (4.08); 5.2821 (5.73); 4.1571 (1.77); 4.1404 (3.86); 4.1237 (1.81); 4.0502 (0.37); 3.3370 (86.57); 3.3043 (0.38); 3.0488 (0.33); 3.0295 (16.00); 3.0146 (0.37); 2.9877 (0.47); 2.8913 (0.81); 2.7326 (0.65); 2.7313 (0.62); 2.5257 (0.61); 2.5209 (1.02); 2.5124 (11.52); 2.5079 (22.88); 2.5033 (30.10); 2.4987 (21.78); 2.4942 (10.36); 1.6314 (1.02); 1.6143 (1.43); 1.5950 (1.25); 1.5781 (0.49); 1.3518 (0.70); 1.3353 (0.97); 1.3314 (0.95); 1.3223 (0.83); 1.3134 (1.16); 1.2903 (3.23); 1.2809 (2.75); 1.2740 (3.07); 1.2660 (1.70); 1.2563 (0.99); 1.2351 (0.45); 1.1207 (0.63); 1.1055 (0.61); 0.8872 (0.61); 0.8813 (1.73); 0.8643 (5.42); 0.8471 (1.72);

0.8205 (0.38); 0.0080 (0.34); -0.0002 (9.49)
Example 54, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8752 (2.27); 8.1766 (1.70); 8.1563 (2.02); 8.0342 (2.65); 8.0211 (0.79); 8.0164 (3.14); 8.0128 (2.29); 7.9532 (0.73); 7.9258 (1.33); 7.9064 (1.86); 7.8862 (1.22); 7.7463 (0.35); 7.7381 (2.65); 7.7343 (1.30); 7.7254 (0.83); 7.7203 (3.41); 7.7164 (2.36); 7.6198 (0.34); 7.6167 (0.58); 7.6136 (0.34); 7.6037 (0.42); 7.5984 (1.65); 7.5933 (0.49); 7.5831 (0.76); 7.5800 (1.27); 7.5768 (0.69); 7.5678 (0.51); 7.5646 (0.36); 7.5559 (0.37); 7.5493 (1.73); 7.5437 (0.58); 7.5343 (1.33); 7.5306 (3.22); 7.5102 (3.39); 7.5018 (2.63); 7.4981 (1.28); 7.4922 (1.57); 7.4897 (1.24); 7.4866 (1.85); 7.4825 (3.17); 7.4690 (0.49); 7.4649 (1.22); 7.4617 (0.68); 7.2313 (1.86); 7.2131 (1.77); 5.4203 (6.48); 3.3357 (90.19); 3.0861 (16.00); 3.0220 (0.36); 2.8906 (5.67); 2.7315 (4.54); 2.5254 (0.57); 2.5121 (11.61); 2.5076 (23.03); 2.5030 (30.30); 2.4984 (21.97); 2.4939 (10.47); 0.0079 (0.38); -0.0002 (10.47)
Example 55, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4362 (0.68); 7.9524 (1.44); 7.7380 (2.85); 7.7342 (1.42); 7.7203 (3.63); 7.7165 (2.58); 7.5670 (0.50); 7.5638 (0.34); 7.5556 (0.35); 7.5486 (1.84); 7.5428 (0.55); 7.5340 (0.99); 7.5306 (1.65); 7.5272 (0.85); 7.5050 (2.80); 7.4899 (1.79); 7.4858 (3.72); 7.4764 (4.26); 7.4708 (1.70); 7.4687 (1.70); 7.4650 (0.98); 7.4594 (1.36); 7.4538 (4.56); 7.4451 (0.42); 7.3375 (5.05); 6.9640 (0.40); 6.9553 (4.29); 6.9497 (1.30); 6.9382 (1.24); 6.9326 (4.04); 6.9239 (0.52); 5.3415 (6.44); 4.9711 (0.83); 4.8566 (7.26); 3.3437 (154.86); 3.0349 (2.07); 3.0231 (16.00); 3.0083 (0.42); 2.8908 (11.54); 2.7312 (9.32); 2.5257 (0.83); 2.5208 (1.37); 2.5123 (16.37); 2.5078 (32.60); 2.5033 (43.10); 2.4987 (31.36); 2.4942 (14.97); -0.0002 (1.53)
Example 56, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1719 (2.73); 7.9534 (0.38); 7.8298 (0.35); 7.8088 (2.32); 7.8018 (2.45); 7.7949 (5.68); 7.7808 (0.42); 7.7247 (1.99); 7.7222 (2.56); 7.7183 (1.24); 7.7095 (0.78); 7.7044 (3.43); 7.7006 (2.37); 7.5624 (0.48); 7.5506 (0.36); 7.5441 (1.64); 7.5384 (0.48); 7.5292 (0.88); 7.5259 (1.41); 7.5225 (0.71); 7.4954 (2.38); 7.4920 (1.00); 7.4801 (1.64); 7.4763 (3.06); 7.4627 (0.47); 7.4587 (1.22); 7.4554 (0.67); 7.1020 (1.29); 7.0950 (1.27); 7.0882 (1.09); 7.0812 (1.23); 5.3304 (6.47); 4.1488 (0.95); 4.1424 (1.15); 4.1333 (1.24); 4.1299 (1.20); 4.1248 (2.03); 4.1153 (1.01); 4.1079 (0.85); 3.3424 (114.20); 3.0653 (16.00); 2.8915 (3.12); 2.7327 (2.47); 2.7318 (2.36); 2.5263 (0.49); 2.5214 (0.79); 2.5130 (9.87); 2.5084 (19.71); 2.5038 (26.01); 2.4992 (18.86); 2.4947 (8.98); 1.6653 (0.35); 1.6526 (0.68); 1.6334 (0.71); 1.6208 (0.57); 1.4904 (0.49); 1.4735 (0.58); 1.4588 (0.69); 1.4426 (0.85); 1.4272 (0.79); 1.4101 (0.63); 1.3907 (0.44); 1.3838 (0.42); 1.3702 (0.43); 1.3652 (0.46); 1.3509 (0.73); 1.3373 (0.54); 1.3318 (0.64); 1.3186 (0.50); 1.1993 (0.56); 1.1809 (0.89); 1.1654 (0.63); 1.1628 (0.70); 1.1473 (0.72); 1.1291 (0.46); 0.8923 (7.35); 0.8761 (7.67); 0.8715 (4.41); 0.8529 (8.39); 0.8344 (3.20); -0.0002 (1.69)
Example 57, Solvent: DMSO, Spectrometer: 399,95 MHz
12.7535 (1.68); 7.9525 (1.45); 7.7420 (2.08); 7.7392 (2.76); 7.7354 (1.45); 7.7267 (0.89); 7.7216 (3.48); 7.7179 (2.59); 7.6441 (1.18); 7.6411 (1.29); 7.6255 (1.55); 7.6220 (1.61); 7.5952 (0.64); 7.5922 (0.83); 7.5751 (2.18); 7.5722 (2.29); 7.5651 (1.69); 7.5610 (1.41); 7.5541 (0.53); 7.5472 (3.21); 7.5432 (1.86); 7.5324 (1.09); 7.5289 (1.86); 7.5231 (0.93); 7.5037 (2.59); 7.5005 (1.29); 7.4886 (1.81); 7.4846 (3.59); 7.4789 (1.79); 7.4713 (0.72); 7.4670 (1.75); 7.4640 (2.20); 7.4609 (1.68); 7.4461 (0.72); 7.4424 (0.68); 7.3992 (4.05); 5.3631 (6.03); 3.3442 (117.73); 3.0457 (16.00); 2.8909 (10.77); 2.7322 (9.09); 2.7308 (8.86); 2.5255 (0.68); 2.5121 (13.58); 2.5076 (26.45); 2.5031 (34.39); 2.4985 (25.53); 2.4941 (12.66); -0.0002 (1.25)
Example 58, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3551 (0.43); 10.3115 (7.26); 8.3851 (0.33); 7.8845 (0.33); 7.8375 (2.37); 7.8176 (5.07); 7.8004 (10.27); 7.7837 (14.27); 7.7641 (2.76); 7.7411 (0.59); 7.7194 (0.39); 7.6537 (0.36); 7.6311 (1.91); 7.5722 (1.56); 7.5538 (4.13); 7.5356 (3.52); 7.5062 (6.33); 7.4897 (9.13); 7.4868 (9.11); 7.4686 (2.99); 7.3490 (2.16); 7.0658 (4.27); 7.0485 (4.20); 5.4362 (0.72); 5.3459 (16.00); 4.1885 (4.96); 4.1719 (10.50); 4.1553 (5.32); 4.0587 (0.57); 4.0402 (1.80); 4.0225 (1.70); 4.0046 (0.59); 3.4983 (1.04); 3.4907 (1.16); 3.3563 (2317.28); 3.3345 (45.91); 3.2320 (2.12); 3.1656 (0.62); 3.1409 (0.47); 2.9133 (3.25); 2.9069 (6.58); 2.9004 (3.36); 2.8852 (0.35); 2.6755 (1.96); 2.5706 (4.74); 2.5644 (5.28); 2.5541 (9.00); 2.5474 (9.66); 2.5371 (8.98); 2.5099 (258.76); 2.5063 (322.76); 2.3327 (2.37); 2.2491 (0.34); 2.2060 (0.33); 2.0761 (0.56); 1.9924 (7.15); 1.2839 (0.38); 1.2486 (1.45); 1.1947 (1.94); 1.1771 (3.72); 1.1597 (1.92); 0.8735 (0.54); 0.8609 (1.48); 0.8452 (0.66)
Example 59, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5388 (0.75); 8.0594 (0.45); 8.0386 (0.54); 7.8303 (0.47); 7.8109 (0.66); 7.7907 (0.43); 7.7245 (0.97); 7.7208 (0.48); 7.7068 (1.25); 7.7030 (0.88); 7.5464 (0.61); 7.5315 (0.33); 7.5282 (0.52); 7.4973 (0.90); 7.4940 (0.39); 7.4818 (0.62); 7.4781 (1.15); 7.4605 (0.45); 7.1379 (0.67); 7.1202 (0.64); 5.3552 (2.34); 3.3292 (18.57); 3.0546 (5.87); 2.8908 (1.64); 2.7320 (1.30); 2.7312 (1.29); 2.5118 (4.25); 2.5073 (8.32); 2.5027 (10.90); 2.4981 (7.96); 2.4937 (3.84); 2.3834 (0.64); 2.3680 (0.42); 2.3632 (0.67); 2.3574 (0.40); 2.3426 (0.70); 1.5193 (0.79); 1.5043 (0.43); 1.4985 (0.70); 1.4938 (0.45); 1.4784 (0.71); 0.8796 (16.00); -0.0002 (2.86)
Example 60, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1438 (2.72); 7.9531 (0.74); 7.8047 (0.76); 7.7837 (1.74); 7.7659 (1.99); 7.7503 (2.03); 7.7479 (2.29); 7.7295 (1.23); 7.7256 (2.45); 7.7228 (2.81); 7.7190 (1.38); 7.7101 (0.84); 7.7050 (3.53); 7.7012 (2.48); 7.5639 (0.49); 7.5608 (0.33); 7.5521 (0.36); 7.5456 (1.65); 7.5399 (0.53); 7.5307 (0.89); 7.5274 (1.45); 7.5240 (0.77); 7.4969 (2.52); 7.4936 (1.11); 7.4815 (1.70); 7.4777 (3.18); 7.4642 (0.52); 7.4601 (1.26); 7.4569 (0.73); 7.3101 (0.46); 7.3038 (0.33); 7.2930 (9.21); 7.2820 (8.50); 7.2638 (0.72); 7.2601 (0.83); 7.2449 (0.55); 7.2422 (0.72); 7.2205 (0.95); 7.2094 (1.08); 7.1984 (1.23); 7.1881 (0.72); 7.1849 (0.76); 7.1770 (0.36); 7.0919 (1.53); 7.0894 (1.59); 7.0743 (1.51); 7.0717 (1.48); 5.3278 (6.23); 5.0059 (0.52); 4.9908 (0.98); 4.9752 (0.97); 4.9584 (0.54); 3.3899 (0.38); 3.3485 (165.03); 3.0645 (16.00); 2.9281 (0.69); 2.9105 (0.55); 2.8909 (6.45); 2.8830 (0.37); 2.8765 (1.32); 2.8570 (1.29); 2.8427 (1.37); 2.8229 (0.57); 2.8087 (0.50); 2.7317 (4.89); 2.5263 (0.65); 2.5130 (12.58); 2.5085 (25.04); 2.5039 (32.97); 2.4993 (24.03); 2.4948 (11.56); 1.3012 (0.99); 1.2855 (0.98); 1.2321 (6.28); 1.2165 (6.11); -0.0002 (3.72)
Example 61, Solvent: DMSO, Spectrometer: 400,13 MHz
10.0934 (6.86); 7.8319 (1.42); 7.8110 (4.22); 7.7939 (6.37); 7.7908 (5.85); 7.7869 (5.91); 7.7696 (1.74); 7.7660 (1.14); 7.7264 (6.39); 7.7086

(7.84); 7.7049 (5.67); 7.5741 (1.13); 7.5711 (0.81); 7.5623 (1.04); 7.5558 (3.81); 7.5501 (1.31); 7.5409 (2.36); 7.5377 (3.40); 7.5345 (1.89); 7.5102 (5.90); 7.4947 (4.24); 7.4911 (7.16); 7.4775 (1.33); 7.4735 (2.74); 7.4703 (1.67); 7.0919 (3.36); 7.0884 (3.37); 7.0751 (3.21); 7.0716 (3.13); 5.7665 (4.63); 5.3415 (14.80); 4.6794 (1.01); 4.6671 (1.18); 4.6570 (1.86); 4.6476 (1.36); 4.6348 (0.92); 4.6254 (0.51); 3.5308 (1.95); 3.5127 (6.35); 3.4945 (6.46); 3.4764 (2.02); 3.3905 (1.14); 3.3406 (77.67); 3.3170 (0.72); 3.2904 (0.93); 2.5603 (0.43); 2.5558 (0.33); 2.5189 (12.38); 2.5147 (23.99); 2.5103 (31.66); 2.5059 (22.93); 2.5018 (11.08); 2.4647 (0.37); 2.4603 (0.42); 1.8689 (1.91); 1.8563 (2.21); 1.8423 (2.28); 1.7304 (1.91); 1.7221 (2.06); 1.7079 (2.22); 1.5236 (1.00); 1.5147 (1.06); 1.4936 (1.18); 1.4677 (1.05); 1.4594 (0.94); 1.4351 (2.23); 1.4106 (2.82); 1.3851 (2.90); 1.3719 (1.69); 1.3584 (2.54); 1.3327 (2.03); 1.3265 (2.22); 1.3007 (1.22); 1.2813 (1.02); 1.2507 (1.38); 1.2405 (1.27); 1.2271 (1.08); 1.2097 (0.64); 1.0652 (7.47); 1.0471 (16.00); 1.0289 (6.94)
Example 62, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5328 (2.07); 8.0693 (1.32); 8.0486 (1.57); 7.8330 (1.31); 7.8136 (1.87); 7.7934 (1.20); 7.7231 (2.73); 7.7103 (0.86); 7.7053 (3.48); 7.7016 (2.44); 7.5649 (0.51); 7.5618 (0.33); 7.5530 (0.39); 7.5466 (1.69); 7.5410 (0.50); 7.5316 (0.93); 7.5284 (1.45); 7.5251 (0.74); 7.4975 (2.52); 7.4820 (1.78); 7.4783 (3.18); 7.4646 (0.51); 7.4606 (1.23); 7.4575 (0.70); 7.1408 (1.90); 7.1228 (1.81); 5.3557 (6.62); 3.3433 (112.40); 3.3109 (0.36); 3.0531 (16.00); 2.8912 (2.26); 2.7317 (1.85); 2.5260 (0.67); 2.5127 (11.48); 2.5083 (22.15); 2.5038 (28.70); 2.4992 (20.81); 2.4947 (9.94); 2.4795 (1.96); 2.4612 (2.90); 2.4422 (1.93); 1.5070 (0.98); 1.4890 (2.25); 1.4702 (2.27); 1.4523 (0.95); 0.7231 (0.43); 0.7173 (0.39); 0.7133 (0.34); 0.7054 (0.72); 0.6975 (0.35); 0.6929 (0.41); 0.6858 (0.47); 0.3938 (0.77); 0.3836 (2.14); 0.3794 (2.21); 0.3738 (0.95); 0.3696 (1.05); 0.3635 (2.15); 0.3593 (1.96); 0.3496 (0.76); 0.0611 (0.78); 0.0509 (2.30); 0.0475 (2.45); 0.0388 (2.25); 0.0353 (2.26); 0.0247 (0.62); -0.0002 (7.48)
Example 63, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7229 (1.56); 8.3829 (0.46); 8.3620 (0.86); 8.3425 (0.72); 8.1789 (0.32); 8.1410 (0.89); 8.1381 (1.02); 8.1203 (1.17); 8.1168 (1.00); 8.0789 (0.75); 8.0583 (0.93); 7.9526 (0.74); 7.8660 (1.20); 7.8468 (1.58); 7.8266 (1.03); 7.8158 (0.33); 7.7972 (0.67); 7.7787 (0.45); 7.7418 (1.63); 7.7238 (4.26); 7.7048 (3.39); 7.7011 (2.36); 7.6486 (1.05); 7.6443 (0.96); 7.6280 (1.50); 7.6139 (0.47); 7.6095 (0.91); 7.6029 (0.45); 7.5997 (0.60); 7.5965 (0.48); 7.5870 (0.60); 7.5815 (1.82); 7.5763 (1.12); 7.5628 (2.00); 7.5524 (0.57); 7.5461 (1.90); 7.5403 (0.71); 7.5310 (1.15); 7.5276 (2.01); 7.5236 (2.14); 7.5025 (2.77); 7.4967 (2.92); 7.4886 (0.89); 7.4811 (3.37); 7.4774 (3.94); 7.4616 (3.04); 7.4481 (1.05); 7.4448 (1.04); 7.4401 (0.98); 7.4317 (0.53); 7.1885 (0.53); 7.1743 (1.79); 7.1567 (1.68); 7.0494 (0.33); 7.0316 (0.33); 6.4903 (0.70); 6.4782 (0.32); 6.4718 (0.72); 5.7781 (2.99); 5.3760 (1.33); 5.3658 (5.60); 4.7148 (0.79); 4.6973 (1.38); 4.6802 (0.92); 4.6669 (0.42); 4.6478 (0.39); 3.8819 (1.66); 3.8662 (3.52); 3.8506 (1.79); 3.3707 (8.60); 3.3284 (192.98); 3.0960 (10.49); 3.0593 (7.61); 3.0555 (16.00); 3.0523 (4.74); 3.0422 (1.91); 2.9579 (1.08); 2.9400 (1.91); 2.9263 (2.53); 2.9109 (3.38); 2.8950 (1.87); 2.8905 (6.69); 2.7503 (0.46); 2.7312 (5.05); 2.6802 (0.34); 2.6756 (0.73); 2.6710 (1.00); 2.6665 (0.70); 2.5244 (2.72); 2.5196 (4.18); 2.5111 (55.95); 2.5065 (113.37); 2.5019 (151.00); 2.4973 (109.61); 2.4928 (52.06); 2.3377 (0.37); 2.3333 (0.75); 2.3287 (1.02); 2.3241 (0.74); 2.3196 (0.35); 1.9090 (0.74); 1.2358 (1.11); 0.8539 (0.35); 0.0080 (1.83); -0.0002 (57.04); -0.0085 (1.68)
Example 64, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8680 (2.25); 8.0124 (1.32); 7.9918 (1.74); 7.9532 (0.79); 7.8730 (1.39); 7.8537 (1.92); 7.8335 (1.16); 7.7274 (2.81); 7.7144 (0.88); 7.7095 (3.56); 7.7058 (2.55); 7.5678 (0.51); 7.5647 (0.33); 7.5557 (0.40); 7.5494 (1.73); 7.5439 (0.53); 7.5344 (0.94); 7.5312 (1.46); 7.5279 (0.77); 7.4985 (2.55); 7.4828 (1.85); 7.4793 (3.28); 7.4654 (0.55); 7.4616 (1.30); 7.4586 (0.76); 7.3313 (1.15); 7.3257 (0.32); 7.3101 (2.59); 7.2891 (1.61); 7.2088 (1.93); 7.1907 (1.86); 7.0128 (3.47); 7.0073 (2.68); 7.0021 (1.71); 6.9968 (1.43); 6.9952 (1.47); 6.9123 (1.06); 6.9101 (1.12); 6.9068 (1.02); 6.9047 (0.96); 6.8912 (1.04); 6.8897 (1.03); 6.8854 (0.99); 5.3897 (6.43); 5.1387 (0.34); 5.1226 (1.13); 5.1062 (1.14); 5.0899 (0.34); 3.3374 (98.89); 3.0642 (16.00); 2.8910 (6.17); 2.7317 (4.95); 2.5259 (0.74); 2.5124 (14.35); 2.5080 (27.93); 2.5035 (36.37); 2.4989 (26.54); 2.4945 (12.86); 1.5377 (5.80); 1.5213 (5.72); -0.0002 (2.08)
Example 65, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6872 (2.25); 8.0182 (0.71); 7.9976 (0.92); 7.9527 (0.83); 7.8811 (1.33); 7.8619 (1.81); 7.8416 (1.11); 7.7279 (2.61); 7.7241 (1.26); 7.7152 (0.78); 7.7101 (3.42); 7.7064 (2.37); 7.5683 (0.49); 7.5564 (0.36); 7.5500 (1.64); 7.5443 (0.48); 7.5350 (0.87); 7.5317 (1.42); 7.5283 (0.71); 7.5005 (2.41); 7.4971 (1.04); 7.4849 (1.95); 7.4814 (3.29); 7.4756 (4.59); 7.4700 (1.42); 7.4637 (1.43); 7.4587 (1.65); 7.4530 (4.56); 7.4442 (0.39); 7.2039 (1.77); 7.1861 (1.68); 6.9528 (0.42); 6.9441 (4.29); 6.9385 (1.26); 6.9270 (1.22); 6.9215 (3.97); 6.9127 (0.33); 5.3821 (6.15); 4.8083 (5.61); 3.3429 (143.71); 3.3076 (0.38); 3.0661 (16.00); 2.8908 (6.80); 2.7319 (5.24); 2.7312 (5.34); 2.5258 (0.71); 2.5209 (1.16); 2.5124 (14.14); 2.5079 (28.18); 2.5033 (37.11); 2.4987 (26.84); 2.4942 (12.72); -0.0002 (0.63)
Example 66, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6366 (2.23); 8.0298 (0.83); 8.0093 (1.06); 7.8832 (1.35); 7.8638 (1.84); 7.8436 (1.15); 7.7281 (2.63); 7.7243 (1.26); 7.7154 (0.76); 7.7103 (3.43); 7.7065 (2.38); 7.5681 (0.48); 7.5562 (0.35); 7.5497 (1.65); 7.5442 (0.47); 7.5348 (0.86); 7.5315 (1.41); 7.5282 (0.72); 7.5004 (2.42); 7.4970 (1.02); 7.4849 (1.63); 7.4812 (3.10); 7.4676 (0.47); 7.4635 (1.22); 7.4603 (0.69); 7.2047 (1.81); 7.1865 (1.72); 7.1554 (1.85); 7.1495 (0.60); 7.1383 (0.81); 7.1328 (3.23); 7.1285 (0.74); 7.1224 (0.33); 7.1173 (0.71); 7.1112 (2.49); 6.9915 (2.48); 6.9854 (0.79); 6.9805 (2.52); 6.9745 (1.19); 6.9685 (1.83); 6.9635 (0.69); 6.9576 (1.78); 5.3827 (6.30); 4.7789 (6.47); 3.3427 (116.03); 3.0663 (16.00); 2.8908 (0.57); 2.7314 (0.44); 2.5259 (0.59); 2.5211 (0.94); 2.5125 (12.03); 2.5080 (24.07); 2.5035 (31.81); 2.4988 (23.05); 2.4943 (10.95); -0.0002 (0.76)
Example 67, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5993 (1.82); 9.1108 (1.66); 9.0962 (1.84); 8.6341 (0.47); 8.6147 (1.06); 8.5952 (0.64); 8.4425 (2.28); 8.1891 (1.06); 8.1707 (1.63); 8.1543 (1.14); 8.0594 (0.95); 8.0392 (1.18); 7.8476 (0.94); 7.8278 (1.38); 7.8079 (0.92); 7.7257 (2.11); 7.7078 (2.67); 7.7041 (2.13); 7.5766 (0.37); 7.5581 (1.35); 7.5399 (1.16); 7.5070 (1.93); 7.4877 (2.53); 7.4700 (1.04); 7.1633 (1.46); 7.1449 (1.45); 5.3555 (4.71); 4.6487 (0.94); 4.6306 (1.84); 4.6126 (1.04); 3.5220 (0.60); 3.4965 (1.34); 3.4471 (16.00); 3.3968 (911.69); 3.3470 (19.34); 3.2969 (2.10); 3.2676 (0.98); 3.2281 (0.66); 3.1869 (0.44); 3.1680 (0.34); 3.1020 (0.37); 3.0512 (11.93); 2.6848 (0.88); 2.6802 (1.19); 2.6756 (0.99); 2.6109 (0.34); 2.5660 (2.35); 2.5616 (3.07); 2.5571 (2.61); 2.5525 (2.00); 2.5333 (5.11); 2.5199 (65.47); 2.5156 (134.39); 2.5112 (183.81); 2.5067 (138.75); 2.5025 (71.95); 2.4707

(4.11); 2.4658 (3.82); 2.4611 (4.02); 2.4562 (3.69); 2.4530 (3.49); 2.4352 (1.51); 2.3425 (0.79); 2.3381 (1.09); 2.3336 (0.84); 1.9767 (0.71); 1.9569 (1.03); 1.9392 (0.80); 1.6144 (0.35); 1.5965 (0.84); 1.5778 (1.03); 1.5580 (0.75)
Example 68, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3171 (2.77); 7.8219 (0.76); 7.8011 (1.72); 7.7834 (1.99); 7.7697 (2.19); 7.7672 (2.40); 7.7490 (1.03); 7.7275 (2.73); 7.7097 (3.44); 7.7060 (2.42); 7.5683 (0.53); 7.5567 (0.45); 7.5500 (1.72); 7.5444 (0.53); 7.5351 (0.97); 7.5318 (1.45); 7.5007 (2.52); 7.4852 (1.82); 7.4815 (3.19); 7.4638 (1.29); 7.4451 (1.37); 7.4413 (1.84); 7.4236 (3.52); 7.3981 (2.13); 7.3932 (0.69); 7.3801 (3.38); 7.3607 (1.53); 7.3220 (0.78); 7.3184 (1.21); 7.3148 (0.66); 7.3062 (0.56); 7.3005 (1.46); 7.2953 (0.39); 7.2827 (0.50); 7.1078 (1.57); 7.1054 (1.50); 7.0903 (1.50); 7.0877 (1.42); 5.8544 (0.42); 5.8383 (1.42); 5.8218 (1.40); 5.8054 (0.40); 5.3399 (6.46); 3.3747 (0.40); 3.3249 (36.38); 3.3011 (1.86); 3.0722 (16.00); 2.6831 (0.66); 2.6786 (0.87); 2.6741 (0.64); 2.5638 (1.28); 2.5594 (1.69); 2.5547 (1.30); 2.5496 (0.86); 2.5184 (55.80); 2.5140 (109.68); 2.5095 (145.64); 2.5050 (103.32); 2.5006 (48.57); 2.4642 (1.44); 2.4597 (1.70); 2.4554 (1.26); 2.3409 (0.71); 2.3363 (0.91); 2.3319 (0.70); 1.5370 (6.04); 1.5206 (6.03)
Example 69, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7919 (2.10); 8.0189 (1.20); 7.9983 (1.56); 7.9528 (0.58); 7.8679 (1.28); 7.8488 (1.77); 7.8284 (1.12); 7.7294 (2.04); 7.7268 (2.58); 7.7231 (1.28); 7.7142 (0.80); 7.7091 (3.40); 7.7054 (2.43); 7.5685 (0.48); 7.5565 (0.36); 7.5502 (1.60); 7.5445 (0.48); 7.5351 (0.87); 7.5318 (1.41); 7.5285 (0.71); 7.4997 (2.31); 7.4963 (1.02); 7.4841 (1.67); 7.4805 (3.03); 7.4669 (0.49); 7.4628 (1.21); 7.4596 (0.73); 7.2021 (1.76); 7.1880 (1.10); 7.1831 (2.00); 7.1680 (1.52); 7.1600 (0.34); 7.1457 (1.28); 6.5295 (0.71); 6.5259 (1.12); 6.5220 (1.10); 6.5005 (4.44); 6.4956 (2.89); 6.4894 (0.91); 6.4827 (1.25); 6.4772 (0.71); 5.3853 (5.82); 5.0648 (1.00); 5.0483 (1.01); 3.6978 (16.00); 3.3541 (114.20); 3.3508 (148.75); 3.0722 (0.65); 3.0627 (15.32); 2.8911 (4.53); 2.7326 (3.78); 2.7314 (3.60); 2.5265 (0.69); 2.5217 (1.11); 2.5131 (13.04); 2.5086 (25.87); 2.5040 (33.86); 2.4994 (24.65); 2.4950 (11.81); 1.5207 (5.12); 1.5043 (5.05); -0.0002 (0.57)
Example 70, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2616 (6.41); 7.8384 (1.50); 7.8176 (3.85); 7.8000 (4.59); 7.7878 (5.39); 7.7694 (2.18); 7.7665 (2.07); 7.7568 (6.17); 7.7388 (7.21); 7.7352 (5.36); 7.5659 (1.06); 7.5538 (0.91); 7.5475 (3.51); 7.5421 (1.20); 7.5294 (3.02); 7.4987 (5.30); 7.4794 (6.77); 7.4617 (2.53); 7.1330 (3.40); 7.1179 (3.22); 5.3776 (13.62); 4.9879 (16.00); 4.1989 (4.31); 4.1823 (9.34); 4.1657 (4.39); 3.3284 (39.57); 2.9114 (2.84); 2.9049 (6.17); 2.8984 (3.00); 2.6755 (0.37); 2.5801 (2.62); 2.5735 (2.75); 2.5635 (5.52); 2.5569 (5.41); 2.5469 (3.10); 2.5403 (3.08); 2.5109 (49.01); 2.5066 (64.28); 2.5023 (46.96); 2.3333 (0.41); 2.3292 (0.32); 2.0798 (9.91)
Example 71, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5020 (1.86); 8.0726 (1.33); 8.0519 (1.58); 7.8358 (1.32); 7.8165 (1.83); 7.7963 (1.21); 7.7264 (2.09); 7.7240 (2.64); 7.7202 (1.33); 7.7113 (0.82); 7.7062 (3.56); 7.7024 (2.42); 7.5648 (0.49); 7.5530 (0.36); 7.5465 (1.65); 7.5408 (0.50); 7.5315 (0.89); 7.5282 (1.42); 7.5249 (0.73); 7.4977 (2.44); 7.4944 (1.07); 7.4823 (1.68); 7.4786 (3.11); 7.4650 (0.48); 7.4609 (1.22); 7.4577 (0.69); 7.1399 (1.83); 7.1215 (1.78); 5.3540 (6.65); 3.3299 (59.74); 3.0539 (16.00); 2.8909 (2.02); 2.7321 (1.63); 2.5253 (0.57); 2.5120 (10.69); 2.5075 (21.11); 2.5029 (27.62); 2.4983 (20.03); 2.4939 (9.54); 2.4190 (1.06); 2.4001 (3.52); 2.3812 (3.61); 2.3624 (1.15); 1.2828 (0.35); 1.0758 (3.97); 1.0570 (8.37); 1.0381 (3.78); 0.8759 (0.59); 0.8625 (0.34); -0.0002 (5.22)
Example 72, Solvent: DMSO, Spectrometer: 399,95 MHz
11.7791 (0.48); 7.9532 (0.41); 7.7367 (0.88); 7.7340 (1.19); 7.7300 (0.60); 7.7216 (0.39); 7.7163 (1.56); 7.7125 (1.10); 7.5449 (0.78); 7.5303 (0.43); 7.5269 (0.70); 7.5234 (0.36); 7.5014 (1.14); 7.4980 (0.51); 7.4864 (0.74); 7.4824 (1.40); 7.4649 (0.56); 7.4613 (0.33); 7.2579 (1.81); 5.2897 (2.57); 3.8663 (3.73); 3.3298 (35.01); 3.0324 (7.32); 2.8910 (3.43); 2.7322 (2.69); 2.7313 (2.64); 2.5204 (0.41); 2.5118 (5.50); 2.5073 (11.12); 2.5027 (14.79); 2.4981 (10.79); 2.4936 (5.19); 0.9301 (16.00); 0.9054 (0.41); 0.7329 (1.03); -0.0002 (5.07)
Example 73, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5533 (1.12); 10.5076 (0.32); 8.0711 (0.88); 8.0504 (1.04); 7.9531 (0.43); 7.9406 (0.34); 7.9208 (0.49); 7.9007 (0.37); 7.8411 (0.76); 7.8217 (1.10); 7.8016 (0.70); 7.7470 (1.25); 7.7287 (2.00); 7.7252 (2.79); 7.7053 (2.50); 7.7016 (1.79); 7.5750 (0.77); 7.5690 (0.40); 7.5653 (0.45); 7.5596 (0.52); 7.5564 (0.72); 7.5533 (0.61); 7.5470 (1.25); 7.5414 (0.39); 7.5318 (0.75); 7.5287 (1.08); 7.5253 (0.64); 7.5168 (1.12); 7.4977 (3.16); 7.4789 (2.78); 7.4650 (0.42); 7.4610 (0.88); 7.4579 (0.51); 7.1491 (1.03); 7.1312 (0.99); 7.1239 (0.37); 6.9620 (0.80); 6.9433 (1.07); 5.3809 (2.55); 5.3567 (4.46); 3.5688 (1.27); 3.5524 (2.55); 3.5358 (1.37); 3.5214 (0.33); 3.3933 (30.62); 3.0690 (0.47); 3.0549 (16.00); 2.8914 (2.58); 2.7321 (2.19); 2.5635 (1.27); 2.5496 (2.64); 2.5357 (1.55); 2.5260 (1.26); 2.5123 (18.66); 2.5081 (35.20); 2.5036 (45.00); 2.4991 (32.97); 2.4949 (16.23); 2.4520 (0.45); 2.4425 (0.90); 2.4348 (0.42); 2.4240 (1.82); 2.4062 (1.01); 2.3822 (0.49); 2.2189 (0.32); 2.2010 (0.56); 2.1823 (0.33); 1.8432 (0.54); 1.8265 (0.75); 1.8060 (0.75); 1.7894 (0.38); 1.7292 (0.35); 1.7109 (0.76); 1.6927 (0.80); 1.6741 (0.49); 1.5973 (0.42); 1.4284 (0.46); 1.4082 (0.44); 1.2374 (0.33); -0.0002 (2.87)
Example 74, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7393 (2.83); 7.7213 (3.50); 7.7177 (2.51); 7.5588 (0.53); 7.5468 (0.45); 7.5405 (1.70); 7.5350 (0.56); 7.5253 (0.98); 7.5222 (1.45); 7.4896 (2.51); 7.4703 (3.27); 7.4526 (1.26); 7.4107 (1.21); 7.3925 (1.60); 7.3901 (1.55); 7.3719 (1.34); 7.2932 (0.91); 7.2749 (2.76); 7.2574 (3.45); 7.2413 (4.27); 7.2248 (1.60); 7.2087 (0.81); 7.2049 (0.96); 7.2001 (0.55); 7.1874 (1.45); 7.1810 (0.34); 7.1702 (0.48); 6.6962 (0.65); 6.6824 (1.29); 6.6685 (0.64); 6.5234 (2.00); 6.5057 (1.92); 6.4393 (1.98); 6.4185 (1.92); 5.7637 (2.15); 5.2300 (6.75); 3.4554 (0.83); 3.4394 (1.58); 3.4232 (1.48); 3.4193 (1.57); 3.4044 (0.93); 3.3765 (0.60); 3.3438 (155.57); 3.3200 (0.57); 3.0562 (16.00); 2.8373 (1.71); 2.8181 (2.42); 2.8003 (1.51); 2.5153 (15.94); 2.5113 (31.31); 2.5069 (41.19); 2.5025 (29.46)
Example 75, Solvent: DMSO, Spectrometer: 399,95 MHz
12.3671 (0.65); 9.3200 (0.57); 7.9528 (1.31); 7.7467 (2.02); 7.7441 (2.74); 7.7400 (1.43); 7.7346 (0.98); 7.7316 (1.14); 7.7265 (3.57); 7.7227 (2.60); 7.7173 (1.04); 7.7134 (0.72); 7.5699 (0.48); 7.5665 (0.33); 7.5586 (0.40); 7.5515 (1.69); 7.5455 (0.65); 7.5419 (0.57); 7.5369 (1.03); 7.5334 (1.56); 7.5299 (0.88); 7.5238 (0.51); 7.5087 (2.57); 7.5050 (1.31); 7.4938 (1.68); 7.4897 (3.18); 7.4855 (1.48); 7.4819 (1.48); 7.4765 (0.77); 7.4722 (1.44); 7.4683 (1.26); 7.4651 (2.00); 7.4603 (0.88); 7.4465 (2.69); 7.4303 (0.88); 7.4258 (2.30); 7.4199 (0.33); 7.3952 (0.42);

7.3921 (0.59); 7.3732 (0.35); 7.3355 (4.18); 7.3157 (1.19); 7.3131 (0.78); 7.2972 (1.69); 7.2813 (0.46); 7.2787 (0.76); 7.2759 (0.53); 7.2665 (2.44); 7.2636 (3.00); 7.2584 (0.82); 7.2448 (2.40); 7.2427 (1.94); 7.1751 (0.44); 7.1561 (0.46); 7.1534 (0.60); 7.1354 (0.48); 6.9953 (0.75); 6.7583 (0.99); 6.7556 (0.91); 6.7367 (0.95); 6.6282 (0.77); 5.3233 (5.58); 5.1160 (1.48); 3.3335 (41.99); 3.3310 (55.90); 3.0577 (16.00); 3.0481 (4.23); 3.0354 (0.50); 3.0175 (0.44); 2.8901 (10.70); 2.7317 (8.74); 2.7306 (8.34); 2.5247 (0.78); 2.5199 (1.27); 2.5113 (15.49); 2.5068 (30.92); 2.5022 (40.65); 2.4976 (29.35); 2.4931 (13.84); 0.0080 (0.36); -0.0002 (10.76)
Example 76, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5782 (2.22); 8.0435 (0.84); 8.0229 (1.07); 7.8826 (1.33); 7.8633 (1.84); 7.8431 (1.13); 7.7276 (2.63); 7.7239 (1.28); 7.7149 (0.81); 7.7099 (3.44); 7.7061 (2.40); 7.5676 (0.49); 7.5557 (0.36); 7.5493 (1.65); 7.5436 (0.48); 7.5344 (0.88); 7.5310 (1.42); 7.5277 (0.72); 7.4998 (2.42); 7.4964 (1.03); 7.4843 (1.69); 7.4806 (3.11); 7.4670 (0.49); 7.4629 (1.23); 7.4597 (0.70); 7.2035 (1.81); 7.1853 (1.77); 7.1717 (1.12); 7.1525 (1.64); 7.1320 (1.18); 7.1120 (0.71); 7.1090 (0.60); 6.8792 (0.97); 6.8608 (1.70); 6.8450 (2.09); 6.8260 (1.47); 5.3814 (6.24); 4.8169 (6.31); 3.3473 (125.30); 3.0626 (16.00); 2.8906 (0.86); 2.7322 (0.69); 2.7312 (0.68); 2.5260 (0.56); 2.5126 (11.38); 2.5081 (22.51); 2.5035 (29.43); 2.4989 (21.30); 2.4944 (10.12); 2.2248 (10.54); -0.0002 (0.43)
Example 77, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5111 (2.02); 8.0678 (1.23); 8.0471 (1.47); 7.8297 (1.26); 7.8105 (1.73); 7.7902 (1.19); 7.7235 (2.59); 7.7197 (1.29); 7.7108 (0.83); 7.7058 (3.52); 7.7020 (2.35); 7.5641 (0.49); 7.5522 (0.37); 7.5458 (1.63); 7.5401 (0.49); 7.5308 (0.87); 7.5275 (1.41); 7.5241 (0.71); 7.4963 (2.41); 7.4928 (1.02); 7.4809 (1.69); 7.4771 (3.07); 7.4635 (0.49); 7.4594 (1.23); 7.4562 (0.68); 7.1387 (1.76); 7.1211 (1.70); 5.3535 (6.08); 3.3290 (52.17); 3.0676 (0.35); 3.0535 (16.00); 2.8908 (2.53); 2.7322 (1.96); 2.7312 (1.99); 2.5252 (0.56); 2.5204 (0.95); 2.5119 (11.27); 2.5074 (22.37); 2.5028 (29.46); 2.4982 (21.31); 2.4937 (10.07); 2.4097 (1.50); 2.3910 (2.25); 2.3714 (1.63); 1.7077 (0.95); 1.6732 (1.93); 1.6378 (1.20); 1.6145 (0.63); 1.6107 (0.63); 1.5899 (0.46); 1.4985 (0.80); 1.4809 (1.64); 1.4611 (1.74); 1.4434 (0.86); 1.2341 (0.51); 1.2233 (0.48); 1.2146 (0.45); 1.1968 (0.93); 1.1923 (0.95); 1.1863 (1.02); 1.1685 (1.50); 1.1621 (1.26); 1.1507 (0.86); 1.1400 (1.27); 1.1205 (0.60); 1.1137 (0.38); 0.9076 (0.44); 0.8938 (0.47); 0.8760 (1.38); 0.8621 (0.67); 0.8563 (0.94); 0.8498 (0.93); -0.0002 (5.59)
Example 78, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4942 (2.05); 8.0673 (1.38); 8.0466 (1.63); 7.9534 (0.69); 7.8251 (1.26); 7.8060 (1.85); 7.7856 (1.16); 7.7236 (2.98); 7.7108 (0.93); 7.7058 (3.91); 7.7021 (2.73); 7.5641 (0.55); 7.5610 (0.37); 7.5522 (0.41); 7.5458 (1.87); 7.5401 (0.57); 7.5308 (1.00); 7.5276 (1.62); 7.5243 (0.85); 7.4963 (2.80); 7.4808 (1.93); 7.4772 (3.56); 7.4635 (0.56); 7.4595 (1.39); 7.4563 (0.81); 7.1383 (1.91); 7.1198 (1.86); 5.3545 (7.06); 4.0446 (0.41); 4.0268 (0.42); 3.3291 (63.21); 3.0565 (16.00); 2.8909 (5.44); 2.7321 (4.37); 2.5252 (0.65); 2.5118 (13.63); 2.5074 (27.22); 2.5028 (36.02); 2.4982 (26.50); 2.4938 (12.92); 2.4656 (0.42); 2.4441 (0.48); 2.4299 (1.12); 2.4083 (1.54); 2.4021 (1.39); 2.3846 (1.43); 2.3664 (0.40); 2.3489 (0.50); 2.2552 (0.38); 2.2358 (0.52); 2.2202 (0.49); 2.2126 (0.37); 2.2012 (0.37); 2.1318 (1.14); 2.1213 (0.74); 2.0934 (1.22); 1.7405 (0.35); 1.7367 (0.33); 1.7184 (0.45); 1.7107 (0.59); 1.7000 (0.47); 1.5393 (0.53); 1.5318 (0.37); 1.5098 (0.52); 1.4804 (0.38); 1.4703 (0.61); 1.4617 (0.61); 1.4507 (0.55); 1.4409 (0.62); 1.4326 (0.49); 1.4228 (0.38); 1.3350 (0.96); 1.3115 (1.45); 1.2982 (0.81); 1.2832 (0.78); 1.2688 (0.42); 1.2440 (1.23); 1.2395 (1.35); 1.2213 (0.71); 1.2164 (0.71); 1.1836 (0.54); 1.1658 (1.05); 1.1552 (0.39); 1.1481 (0.89); 1.1393 (0.39); 1.1327 (0.48); 1.1279 (0.63); 1.1221 (0.62); 1.1165 (0.62); 1.1108 (0.44); 1.1052 (0.40); 1.0928 (0.35); 0.8757 (0.62); 0.8625 (0.38); 0.8570 (0.33); 0.7119 (0.48); 0.7064 (0.52); 0.6989 (0.51); 0.6930 (0.49); 0.6817 (0.47); 0.6762 (0.49); 0.6686 (0.50); 0.6632 (0.46); -0.0002 (7.35)
Example 79, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2078 (2.01); 7.9530 (0.61); 7.8012 (0.70); 7.7805 (1.26); 7.7618 (1.18); 7.7227 (1.62); 7.7201 (2.12); 7.7163 (1.14); 7.7078 (1.92); 7.7024 (2.89); 7.6987 (2.01); 7.6880 (0.87); 7.5628 (0.39); 7.5445 (1.30); 7.5388 (0.40); 7.5295 (0.70); 7.5262 (1.13); 7.5228 (0.59); 7.4948 (1.93); 7.4914 (0.85); 7.4794 (1.37); 7.4756 (2.55); 7.4687 (1.72); 7.4653 (2.07); 7.4581 (1.24); 7.4546 (0.83); 7.4472 (2.45); 7.4445 (2.34); 7.4222 (0.36); 7.4195 (0.34); 7.3465 (0.38); 7.3371 (1.38); 7.3322 (0.53); 7.3186 (2.37); 7.3025 (0.63); 7.2985 (1.45); 7.2396 (0.46); 7.2227 (0.96); 7.2199 (1.41); 7.2101 (0.50); 7.2062 (0.54); 7.2018 (1.33); 7.1865 (0.34); 7.1836 (0.50); 7.0898 (1.35); 7.0730 (1.30); 5.3272 (4.75); 4.2948 (1.05); 4.1307 (5.89); 3.3440 (106.63); 3.0502 (12.46); 2.8907 (4.85); 2.7324 (3.83); 2.7313 (3.90); 2.5259 (0.53); 2.5211 (0.86); 2.5125 (9.60); 2.5080 (19.06); 2.5034 (25.11); 2.4988 (18.33); 2.4943 (8.79); 1.3430 (16.00); -0.0002 (1.31)
Example 80, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5113 (0.77); 7.9531 (0.80); 7.7377 (2.09); 7.7352 (2.72); 7.7312 (1.30); 7.7226 (0.85); 7.7175 (3.57); 7.7137 (2.43); 7.5656 (0.50); 7.5624 (0.32); 7.5541 (0.35); 7.5473 (1.72); 7.5414 (0.51); 7.5325 (0.95); 7.5291 (1.52); 7.5257 (0.76); 7.5024 (2.53); 7.4990 (1.07); 7.4873 (1.70); 7.4834 (3.18); 7.4699 (0.50); 7.4658 (1.27); 7.4624 (0.71); 7.3294 (4.53); 7.1646 (1.08); 7.1446 (2.02); 7.1241 (1.01); 6.7642 (1.30); 6.7463 (3.02); 6.6956 (1.00); 6.6895 (0.82); 6.6756 (0.78); 6.6719 (0.87); 5.3366 (5.85); 5.0461 (0.39); 5.0297 (1.47); 5.0131 (1.48); 4.9966 (0.40); 3.3407 (71.31); 3.0279 (0.40); 3.0092 (16.00); 2.8906 (6.59); 2.7323 (5.26); 2.7314 (5.08); 2.5259 (0.50); 2.5211 (0.81); 2.5125 (9.65); 2.5080 (19.21); 2.5034 (25.24); 2.4988 (18.23); 2.4943 (8.61); 2.2409 (9.78); 1.5310 (5.59); 1.5145 (5.54); -0.0002 (2.73)
Example 81, Solvent: DMSO, Spectrometer: 399,95 MHz
12.7334 (2.08); 7.9525 (1.68); 7.7397 (4.10); 7.7214 (5.10); 7.7179 (2.82); 7.6092 (1.18); 7.6045 (1.36); 7.5907 (1.65); 7.5860 (1.81); 7.5651 (0.49); 7.5620 (0.33); 7.5537 (0.36); 7.5467 (1.75); 7.5410 (0.52); 7.5320 (1.00); 7.5287 (1.59); 7.5251 (0.93); 7.5225 (0.87); 7.5192 (0.87); 7.5036 (4.33); 7.5007 (2.84); 7.4847 (4.20); 7.4756 (1.50); 7.4706 (1.79); 7.4669 (1.44); 7.4634 (0.85); 7.4563 (1.45); 7.4515 (1.42); 7.4373 (0.58); 7.4327 (0.51); 7.3982 (4.18); 5.3621 (6.32); 3.3383 (108.95); 3.0483 (16.00); 2.8905 (13.02); 2.7314 (10.70); 2.5250 (0.66); 2.5116 (14.14); 2.5072 (28.01); 2.5026 (36.80); 2.4981 (26.89); 2.4937 (13.03); -0.0002 (4.70)
Example 82, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5092 (1.00); 7.9529 (0.89); 7.7422 (0.32); 7.7365 (2.08); 7.7339 (2.67); 7.7299 (1.25); 7.7213 (0.83); 7.7162 (3.53); 7.7124 (2.38); 7.5655 (0.50); 7.5539 (0.35); 7.5472 (1.71); 7.5413 (0.49); 7.5324 (0.93); 7.5290 (1.52); 7.5255 (0.75); 7.5022 (2.50); 7.4988 (1.04); 7.4870 (1.67); 7.4831 (3.13); 7.4697 (0.49); 7.4656 (1.25); 7.4622 (0.77); 7.3383 (0.36); 7.3292 (4.54); 7.1636 (1.03); 7.1470 (1.10); 7.1452 (1.14); 7.1101 (0.49); 7.1069 (0.46); 7.0909 (1.05); 7.0711 (0.65); 7.0679 (0.57); 6.8576 (0.91); 6.8392 (1.54); 6.8224 (0.69); 6.8206 (0.68); 6.7567 (1.53);

6.7365 (1.38); 5.3340 (5.73); 5.0373 (0.38); 5.0208 (1.39); 5.0042 (1.40); 4.9877 (0.38); 3.3396 (95.93); 3.0194 (1.06); 3.0102 (16.00); 2.8904 (7.42); 2.7321 (5.68); 2.7311 (5.88); 2.5256 (0.51); 2.5208 (0.80); 2.5123 (10.61); 2.5077 (21.37); 2.5031 (28.27); 2.4985 (20.41); 2.4940 (9.65); 2.2170 (9.94); 1.5659 (5.54); 1.5494 (5.60); 1.5299 (0.37); -0.0002 (3.61)
Example 83, Solvent: DMSO, Spectrometer: 400,13 MHz
8.0123 (2.60); 7.6632 (3.98); 7.6419 (5.53); 7.6155 (0.94); 7.5975 (1.97); 7.5808 (1.80); 7.5641 (0.72); 7.4461 (3.86); 7.4264 (2.24); 6.5748 (2.81); 6.5571 (2.64); 6.4532 (2.79); 6.4325 (2.61); 6.0832 (6.83); 5.2576 (9.84); 3.4172 (4.30); 3.1433 (16.00); 2.9496 (10.68); 2.7900 (10.04); 2.7305 (0.36); 2.5619 (55.79); 2.3883 (0.36); 1.4182 (0.70); -0.0002 (1.16)
Example 84, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5205 (1.96); 8.0698 (1.18); 8.0491 (1.40); 7.8298 (1.23); 7.8106 (1.67); 7.7903 (1.16); 7.7320 (0.32); 7.7265 (1.94); 7.7237 (2.55); 7.7198 (1.30); 7.7111 (0.83); 7.7060 (3.53); 7.7022 (2.37); 7.5641 (0.48); 7.5522 (0.36); 7.5458 (1.59); 7.5401 (0.50); 7.5309 (0.86); 7.5275 (1.41); 7.5241 (0.73); 7.4964 (2.39); 7.4930 (1.04); 7.4811 (1.64); 7.4773 (3.02); 7.4637 (0.50); 7.4596 (1.23); 7.4564 (0.69); 7.1387 (1.71); 7.1215 (1.64); 7.1201 (1.60); 5.3539 (5.96); 3.3295 (63.55); 3.0540 (16.00); 2.8911 (1.73); 2.7326 (1.37); 2.7313 (1.38); 2.5254 (0.58); 2.5206 (1.00); 2.5121 (11.09); 2.5076 (21.82); 2.5030 (28.61); 2.4984 (20.72); 2.4938 (9.82); 2.4106 (1.56); 2.3920 (2.27); 2.3727 (1.71); 1.7602 (0.38); 1.7429 (1.06); 1.7268 (1.48); 1.7123 (0.94); 1.6995 (0.67); 1.6087 (0.84); 1.5897 (1.60); 1.5716 (1.96); 1.5552 (1.24); 1.5403 (0.52); 1.5373 (0.49); 1.5268 (0.32); 1.5126 (0.39); 1.5082 (0.35); 1.4948 (0.49); 1.4855 (0.79); 1.4752 (0.81); 1.4693 (0.89); 1.4563 (0.79); 1.1065 (0.55); 1.0957 (0.72); 1.0904 (0.83); 1.0802 (0.69); 1.0756 (0.62); 1.0715 (0.62); 1.0645 (0.46); 1.0601 (0.44); 0.8759 (0.52); -0.0002 (5.65)
Example 85, Solvent: DMSO, Spectrometer: 399,95 MHz
10.0121 (2.29); 8.0825 (1.39); 8.0623 (1.78); 7.9530 (0.86); 7.9149 (1.28); 7.8955 (1.81); 7.8754 (1.10); 7.7325 (1.98); 7.7299 (2.61); 7.7260 (1.30); 7.7173 (0.84); 7.7121 (3.46); 7.7084 (2.42); 7.5666 (0.49); 7.5548 (0.37); 7.5483 (1.62); 7.5426 (0.50); 7.5334 (0.90); 7.5301 (1.44); 7.5267 (0.74); 7.4995 (2.40); 7.4961 (1.07); 7.4841 (1.68); 7.4804 (3.07); 7.4668 (0.51); 7.4627 (1.24); 7.4595 (0.71); 7.2181 (2.13); 7.2133 (1.27); 7.2066 (5.37); 7.1988 (5.01); 7.1838 (0.85); 7.1134 (0.82); 7.1057 (1.05); 7.0976 (0.61); 5.3889 (6.09); 4.9691 (0.85); 4.9313 (2.12); 4.8885 (1.60); 4.8510 (0.61); 4.4782 (0.93); 4.4658 (0.97); 4.4538 (1.23); 4.4414 (0.98); 3.3302 (71.52); 3.0854 (16.00); 3.0122 (1.27); 3.0018 (1.83); 2.9796 (0.89); 2.8902 (6.85); 2.7318 (5.35); 2.7306 (5.48); 2.5247 (0.62); 2.5114 (12.73); 2.5069 (24.95); 2.5023 (32.61); 2.4977 (23.73); 2.4931 (11.41); -0.0002 (7.97)
Example 86, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2690 (7.09); 7.8414 (1.60); 7.8205 (4.46); 7.8032 (6.02); 7.7948 (6.83); 7.7768 (2.26); 7.6902 (7.09); 7.6722 (8.47); 7.6689 (6.85); 7.5582 (1.32); 7.5397 (4.13); 7.5218 (3.81); 7.4939 (6.61); 7.4746 (8.02); 7.4570 (3.23); 7.1412 (3.95); 7.1262 (3.78); 5.7626 (3.63); 5.3377 (16.00); 4.5315 (10.49); 4.5254 (10.88); 4.1988 (4.94); 4.1822 (10.57); 4.1655 (5.47); 4.1490 (0.77); 4.1330 (0.45); 4.0599 (0.34); 4.0422 (0.91); 4.0245 (0.91); 4.0068 (0.35); 3.3316 (33.70); 3.3251 (9.43); 3.3189 (4.52); 3.3080 (2.35); 2.9128 (3.20); 2.9063 (6.74); 2.8998 (3.70); 2.5808 (3.27); 2.5743 (3.63); 2.5643 (6.78); 2.5577 (6.87); 2.5476 (4.16); 2.5412 (3.91); 2.5106 (37.18); 2.5066 (48.53); 2.5026 (37.67); 2.3334 (0.40); 2.0789 (0.68); 1.9937 (3.66); 1.2820 (0.55); 1.2484 (2.52); 1.1966 (1.09); 1.1788 (1.97); 1.1610 (1.03); 0.8782 (1.00); 0.8620 (2.64); 0.8443 (1.22)
Example 87, Solvent: DMSO, Spectrometer: 300,16 MHz
7.9539 (0.50); 7.5448 (0.60); 7.4309 (0.48); 7.4056 (0.47); 7.3921 (0.55); 7.3742 (0.93); 7.3647 (0.87); 5.4238 (1.47); 3.3516 (3.48); 3.0694 (2.92); 2.5216 (16.27); 2.3428 (2.48); 1.3706 (16.00)
Example 88, Solvent: DMSO, Spectrometer: 400,13 MHz
10.7366 (1.91); 8.0323 (1.09); 8.0117 (1.32); 7.8379 (1.13); 7.8187 (1.56); 7.7984 (0.97); 7.7256 (2.28); 7.7127 (0.82); 7.7078 (2.91); 7.7040 (2.01); 7.5763 (0.43); 7.5645 (0.38); 7.5580 (1.42); 7.5524 (0.46); 7.5431 (0.83); 7.5399 (1.24); 7.5365 (0.65); 7.5103 (2.11); 7.4948 (1.51); 7.4911 (2.61); 7.4775 (0.45); 7.4735 (1.03); 7.4703 (0.58); 7.2722 (2.79); 7.2506 (3.04); 7.2434 (0.33); 7.1816 (0.54); 7.1599 (0.69); 7.1503 (1.63); 7.1319 (1.52); 6.8979 (0.52); 6.8908 (3.59); 6.8850 (1.46); 6.8740 (1.17); 6.8690 (3.18); 6.8620 (0.83); 5.3765 (5.28); 3.7503 (0.42); 3.7340 (3.41); 3.7251 (16.00); 3.6786 (0.33); 3.6353 (4.80); 3.4953 (0.76); 3.4848 (1.42); 3.4773 (2.39); 3.4591 (2.36); 3.4409 (0.74); 3.3414 (19.01); 2.6785 (0.33); 2.5640 (0.56); 2.5595 (0.75); 2.5551 (0.58); 2.5318 (1.59); 2.5183 (20.91); 2.5140 (41.52); 2.5095 (55.24); 2.5051 (39.23); 2.5007 (18.19); 2.4641 (0.47); 2.4597 (0.60); 2.4554 (0.44); 2.3364 (0.33); 1.9968 (0.89); 1.2524 (0.59); 1.1813 (0.48); 1.0367 (2.67); 1.0186 (5.93); 1.0004 (2.55); 0.8649 (0.80); 0.8473 (0.32)
Example 89, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2546 (2.49); 8.1091 (0.37); 7.9531 (1.07); 7.8233 (0.70); 7.8024 (1.78); 7.7852 (2.22); 7.7778 (2.06); 7.7747 (2.28); 7.7570 (0.76); 7.7538 (0.54); 7.7225 (2.91); 7.7046 (3.72); 7.7009 (2.61); 7.6824 (0.43); 7.6644 (0.50); 7.6610 (0.39); 7.5692 (0.33); 7.5667 (0.35); 7.5633 (0.53); 7.5603 (0.37); 7.5514 (0.45); 7.5451 (1.74); 7.5395 (0.75); 7.5302 (1.15); 7.5268 (1.59); 7.5234 (0.89); 7.4961 (2.82); 7.4807 (1.96); 7.4770 (3.62); 7.4632 (0.87); 7.4593 (1.49); 7.4562 (0.94); 7.4517 (0.47); 7.4450 (0.50); 7.4401 (0.61); 7.4284 (0.62); 7.4243 (0.52); 7.3657 (1.64); 7.3607 (0.72); 7.3516 (1.85); 7.3441 (2.09); 7.3380 (0.87); 7.3357 (0.89); 7.3301 (1.87); 7.3219 (0.33); 7.3171 (0.61); 7.2944 (0.33); 7.2244 (1.73); 7.2224 (1.71); 7.2072 (3.30); 7.1431 (2.14); 7.1378 (0.69); 7.1266 (0.83); 7.1207 (3.52); 7.1149 (0.82); 7.1044 (1.90); 7.1019 (2.00); 7.0987 (2.07); 7.0881 (1.49); 7.0848 (1.40); 6.9748 (0.38); 6.0034 (0.44); 5.5348 (0.89); 5.3320 (6.39); 5.1790 (1.02); 4.2843 (1.67); 4.2674 (3.78); 4.2505 (1.72); 3.6701 (0.33); 3.3415 (169.96); 3.0881 (2.44); 3.0723 (0.52); 3.0617 (16.00); 3.0364 (2.41); 2.9409 (1.41); 2.9240 (2.85); 2.9071 (1.38); 2.8909 (8.40); 2.7322 (6.73); 2.7317 (6.68); 2.5258 (1.02); 2.5124 (18.10); 2.5080 (35.40); 2.5034 (46.36); 2.4988 (33.81); 2.4944 (16.26); -0.0002 (2.58)
Example 90, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6966 (2.41); 7.6942 (4.34); 7.6916 (2.60); 7.6774 (3.33); 7.6761 (3.88); 7.6741 (3.72); 7.6224 (0.97); 7.6127 (8.36); 7.6101 (8.68); 7.6038 (6.46); 7.6025 (6.04); 7.5997 (5.69); 7.5960 (4.19); 7.5795 (0.81); 7.5759 (0.77); 7.5413 (0.58); 7.5300 (2.94); 7.5213 (2.60); 7.5168 (2.10); 7.5108 (2.69); 7.5082 (2.22); 7.5032 (2.14); 7.4968 (1.80); 7.4891 (1.58); 7.0336 (8.70); 6.6786 (8.90); 5.1662 (16.00); 4.0604 (0.42); 4.0426 (1.32); 4.0248 (1.35); 4.0070 (0.45); 3.4210 (0.35); 3.4000 (3.06); 3.3501 (236.52); 3.3278 (0.65); 3.3185 (0.35); 3.3154 (0.41); 3.3003 (2.76);

3.2516 (40.94); 3.2018 (0.44); 2.5626 (0.41); 2.5580 (0.56); 2.5535 (0.41); 2.5307 (0.71); 2.5172 (16.79); 2.5128 (34.61); 2.5082 (46.67); 2.5037 (32.85); 2.4993 (15.06); 2.4629 (0.40); 2.4584 (0.51); 2.4538 (0.37); 1.9946 (5.99); 1.2471 (0.47); 1.1970 (1.65); 1.1792 (3.31); 1.1614 (1.60); 0.8625 (0.70)
Example 91, Solvent: DMSO, Spectrometer: 399,95 MHz
11.9263 (2.25); 7.9528 (0.84); 7.7470 (1.98); 7.7442 (2.67); 7.7402 (1.31); 7.7318 (0.82); 7.7266 (3.45); 7.7228 (2.38); 7.6999 (1.37); 7.6955 (1.49); 7.6808 (1.52); 7.6764 (1.52); 7.5858 (0.78); 7.5813 (0.74); 7.5669 (1.36); 7.5647 (1.39); 7.5631 (1.41); 7.5604 (1.04); 7.5551 (0.42); 7.5472 (2.01); 7.5419 (1.33); 7.5334 (0.95); 7.5300 (1.53); 7.5264 (0.77); 7.5053 (2.50); 7.5019 (1.09); 7.4904 (1.59); 7.4864 (3.01); 7.4730 (0.50); 7.4689 (1.21); 7.4653 (0.70); 7.3504 (3.93); 7.2191 (1.82); 7.1988 (1.59); 7.1073 (1.02); 7.1053 (1.01); 7.0885 (1.78); 7.0866 (1.75); 7.0699 (0.91); 7.0678 (0.86); 5.3579 (5.97); 3.9100 (14.72); 3.3360 (72.19); 3.0555 (16.00); 2.8905 (6.69); 2.7320 (5.33); 2.7309 (5.35); 2.5251 (0.65); 2.5118 (11.62); 2.5073 (22.88); 2.5027 (29.89); 2.4981 (21.65); 2.4936 (10.27); -0.0002 (9.23)
Example 92, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3314 (3.16); 7.8494 (0.63); 7.8284 (1.98); 7.8112 (3.98); 7.8062 (2.83); 7.7892 (0.73); 7.7853 (0.41); 7.6247 (0.70); 7.6206 (1.05); 7.6150 (0.98); 7.6063 (1.23); 7.6030 (0.98); 7.5999 (1.03); 7.5953 (1.27); 7.5893 (2.51); 7.5869 (2.39); 7.5637 (0.78); 7.5496 (0.87); 7.5435 (1.19); 7.5292 (1.23); 7.5240 (0.64); 7.5086 (0.55); 7.4328 (0.54); 7.4301 (0.60); 7.4266 (0.54); 7.4238 (0.52); 7.4090 (0.99); 7.4052 (0.87); 7.3905 (0.44); 7.3880 (0.46); 7.3847 (0.42); 7.3820 (0.37); 7.1326 (1.47); 7.1288 (1.52); 7.1160 (1.40); 7.1122 (1.42); 5.7683 (0.62); 5.3615 (6.85); 4.1962 (2.13); 4.1796 (4.68); 4.1629 (2.17); 4.0438 (0.65); 4.0260 (0.66); 3.3444 (20.58); 3.0699 (16.00); 2.9229 (1.35); 2.9163 (3.03); 2.9097 (1.45); 2.5802 (1.26); 2.5736 (1.32); 2.5636 (2.87); 2.5569 (2.77); 2.5469 (1.34); 2.5403 (1.23); 2.5324 (0.51); 2.5186 (9.20); 2.5144 (18.80); 2.5100 (25.43); 2.5056 (18.47); 2.5015 (8.79); 1.9966 (2.83); 1.2490 (0.63); 1.1986 (0.76); 1.1808 (1.48); 1.1630 (0.73); 0.8634 (0.82); 0.8457 (0.34)
Example 93, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5108 (2.23); 10.0297 (1.39); 8.0760 (1.54); 8.0726 (1.57); 8.0555 (1.80); 8.0520 (1.84); 7.8852 (0.85); 7.8659 (1.30); 7.8457 (0.79); 7.8327 (1.32); 7.8133 (1.96); 7.7931 (1.20); 7.7256 (4.21); 7.7061 (4.91); 7.5645 (0.80); 7.5525 (0.63); 7.5462 (2.74); 7.5407 (0.82); 7.5309 (1.63); 7.5279 (2.33); 7.4966 (4.18); 7.4774 (5.31); 7.4597 (2.05); 7.4569 (1.23); 7.1990 (1.27); 7.1804 (1.23); 7.1416 (1.99); 7.1231 (1.92); 5.8216 (0.60); 5.8128 (0.33); 5.8049 (0.32); 5.7959 (0.91); 5.7789 (0.95); 5.7699 (0.37); 5.7621 (0.36); 5.7532 (0.70); 5.7366 (0.34); 5.3750 (4.48); 5.3540 (6.90); 5.0233 (0.51); 5.0195 (1.08); 5.0144 (1.14); 5.0105 (0.53); 4.9804 (0.45); 4.9766 (0.98); 4.9715 (1.03); 4.9677 (0.47); 4.9429 (1.15); 4.9402 (1.08); 4.9375 (1.00); 4.9175 (1.09); 4.9148 (1.01); 4.9121 (0.92); 4.1059 (1.06); 4.0893 (1.08); 3.4632 (0.38); 3.4566 (0.62); 3.4405 (1.75); 3.4246 (1.73); 3.4086 (0.64); 3.4019 (0.38); 3.3284 (64.05); 3.0753 (10.22); 3.0534 (16.00); 2.5253 (0.98); 2.5074 (35.87); 2.5029 (46.20); 2.4984 (34.05); 2.4942 (16.81); 2.3945 (1.65); 2.3761 (3.21); 2.3576 (1.79); 2.3297 (0.32); 2.0393 (0.63); 2.0222 (1.78); 2.0045 (1.81); 1.9867 (0.75); 1.6131 (0.41); 1.5945 (1.23); 1.5762 (1.75); 1.5577 (1.35); 1.5335 (0.84); 1.5166 (1.10); 1.5129 (1.05); 1.4956 (1.16); 1.4793 (0.48); 1.3849 (0.99); 1.3664 (2.14); 1.3477 (2.36); 1.3283 (1.70); 1.3168 (0.85); 1.3087 (1.55); 1.3014 (5.27); 1.2847 (5.18); 1.2697 (0.68); 1.2604 (0.72); 1.2347 (0.38); 0.8946 (2.74); 0.8763 (5.43); 0.8578 (2.34); 0.0078 (0.42); -0.0002 (11.40); -0.0085 (0.43)
Example 94, Solvent: DMSO, Spectrometer: 399,95 MHz
9.7653 (1.93); 8.0534 (1.29); 8.0329 (1.62); 7.8853 (1.31); 7.8659 (1.82); 7.8458 (1.13); 7.7271 (1.94); 7.7246 (2.52); 7.7207 (1.20); 7.7119 (0.79); 7.7068 (3.39); 7.7031 (2.32); 7.5641 (0.48); 7.5522 (0.35); 7.5458 (1.61); 7.5401 (0.46); 7.5308 (0.87); 7.5275 (1.39); 7.5241 (0.69); 7.4959 (2.35); 7.4925 (0.98); 7.4805 (1.64); 7.4767 (3.03); 7.4631 (0.48); 7.4591 (1.22); 7.4559 (0.66); 7.1944 (1.76); 7.1768 (1.65); 5.3740 (6.25); 4.0556 (8.70); 4.0391 (0.58); 4.0319 (0.73); 4.0266 (0.75); 4.0184 (0.75); 4.0140 (0.39); 3.3331 (71.93); 3.0795 (16.00); 3.0692 (0.50); 2.8909 (1.03); 2.7322 (0.81); 2.7313 (0.79); 2.5254 (0.57); 2.5206 (0.88); 2.5120 (11.07); 2.5075 (22.26); 2.5029 (29.43); 2.4983 (21.27); 2.4938 (10.06); 1.7085 (0.41); 1.7041 (0.47); 1.6908 (0.93); 1.6879 (0.97); 1.6729 (2.08); 1.6681 (2.39); 1.6626 (2.83); 1.6573 (2.42); 1.6548 (2.60); 1.6476 (1.03); 1.6424 (1.58); 1.6392 (1.47); 1.6234 (0.49); 1.6189 (0.46); 1.6146 (0.51); 1.5263 (0.33); 1.5183 (0.46); 1.5141 (0.64); 1.5071 (0.69); 1.5025 (0.98); 1.4995 (0.95); 1.4963 (1.01); 1.4922 (0.82); 1.4862 (0.71); 1.4767 (0.39); -0.0002 (2.96)
Example 95, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5088 (2.07); 8.0749 (1.25); 8.0542 (1.48); 7.8323 (1.25); 7.8130 (1.74); 7.7928 (1.14); 7.7239 (2.57); 7.7201 (1.24); 7.7112 (0.85); 7.7061 (3.36); 7.7023 (2.31); 7.5642 (0.48); 7.5522 (0.37); 7.5458 (1.62); 7.5402 (0.47); 7.5309 (0.88); 7.5276 (1.39); 7.5243 (0.71); 7.4965 (2.37); 7.4811 (1.66); 7.4773 (3.03); 7.4637 (0.48); 7.4597 (1.19); 7.4565 (0.67); 7.1409 (1.78); 7.1231 (1.70); 5.3541 (6.16); 3.3284 (55.96); 3.0536 (15.38); 2.8909 (1.12); 2.7321 (0.88); 2.5252 (0.53); 2.5119 (10.97); 2.5074 (21.54); 2.5028 (28.23); 2.4982 (20.56); 2.4937 (9.88); 2.3775 (1.53); 2.3590 (3.07); 2.3404 (1.72); 1.6080 (0.40); 1.5890 (1.07); 1.5805 (0.58); 1.5758 (0.80); 1.5697 (1.41); 1.5627 (1.07); 1.5483 (1.36); 1.5302 (1.36); 1.5133 (0.85); 1.4966 (0.45); 1.1911 (1.03); 1.1740 (1.43); 1.1651 (0.81); 1.1615 (0.76); 1.1516 (1.48); 1.1344 (0.79); 0.8644 (16.00); 0.8478 (15.28); -0.0002 (7.59)
Example 96, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6611 (6.58); 7.6574 (3.58); 7.6487 (2.26); 7.6436 (8.50); 7.6397 (6.42); 7.5529 (0.65); 7.5497 (1.18); 7.5465 (0.85); 7.5386 (0.99); 7.5314 (4.08); 7.5255 (1.43); 7.5169 (2.49); 7.5134 (3.82); 7.5100 (2.13); 7.4900 (8.69); 7.4701 (11.84); 7.4567 (1.82); 7.4520 (5.86); 6.5825 (4.46); 6.5648 (4.35); 6.4667 (4.64); 6.4462 (4.56); 6.4157 (0.33); 6.3951 (0.36); 6.3121 (0.68); 6.2256 (0.38); 5.7692 (0.38); 5.6971 (0.37); 5.6829 (0.39); 5.6382 (0.40); 5.6223 (0.40); 5.6026 (0.40); 5.2839 (0.36); 5.2331 (16.00); 5.1823 (0.33); 2.5661 (0.42); 2.5616 (0.63); 2.5571 (0.53); 2.5329 (0.85); 2.5193 (16.27); 2.5150 (34.12); 2.5105 (47.07); 2.5061 (35.41); 2.5019 (18.34); 2.4691 (0.91); 2.4642 (0.97); 2.4597 (1.00); 2.4553 (0.80)
Example 97, Solvent: DMSO, Spectrometer: 300,16 MHz
9.8567 (1.13); 7.7858 (0.94); 7.7766 (1.05); 7.7674 (2.28); 7.7308 (0.34); 7.7111 (0.55); 7.7051 (0.65); 7.6844 (0.35); 7.6792 (0.36); 7.6382 (0.36); 7.6187 (0.34); 7.6103 (0.41); 7.4006 (0.41); 7.3713 (0.80); 7.3655 (0.59); 7.3479 (0.81); 7.3454 (0.75); 7.3377 (0.45); 7.3230 (0.42); 7.3195 (0.34); 7.0981 (0.54); 7.0887 (0.56); 7.0799 (0.48); 7.0706 (0.54); 5.3503 (2.73); 3.3348 (10.70); 3.3146 (0.49); 3.1887 (6.24); 2.5158

(0.74); 2.5099 (1.54); 2.5039 (2.08); 2.4978 (1.52); 2.4920 (0.74); 1.9905 (1.26); 1.4664 (16.00); 1.1988 (0.34); 1.1751 (0.68); 1.1514 (0.33); -0.0002 (0.54)
Example 98, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5038 (2.10); 8.0709 (1.23); 8.0503 (1.45); 7.8312 (1.27); 7.8120 (1.74); 7.7917 (1.18); 7.7261 (2.01); 7.7234 (2.66); 7.7196 (1.34); 7.7108 (0.89); 7.7057 (3.61); 7.7020 (2.40); 7.5639 (0.50); 7.5607 (0.33); 7.5520 (0.39); 7.5456 (1.63); 7.5399 (0.52); 7.5307 (0.91); 7.5273 (1.45); 7.5239 (0.75); 7.4961 (2.47); 7.4927 (1.08); 7.4807 (1.74); 7.4770 (3.12); 7.4634 (0.53); 7.4593 (1.25); 7.4561 (0.71); 7.1393 (1.77); 7.1219 (1.68); 5.3532 (6.11); 3.3286 (57.15); 3.0536 (16.00); 2.5253 (0.63); 2.5120 (11.46); 2.5075 (22.17); 2.5029 (28.83); 2.4983 (20.85); 2.4938 (9.87); 2.3890 (1.45); 2.3706 (2.77); 2.3521 (1.59); 1.5794 (0.74); 1.5621 (1.09); 1.5449 (0.76); 1.2650 (4.90); 1.2575 (5.11); 1.2428 (4.42); 0.8756 (0.62); 0.8637 (1.94); 0.8472 (5.84); 0.8296 (2.02); -0.0002 (6.05)
Example 99, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5108 (1.12); 10.0299 (2.22); 8.0771 (1.86); 8.0568 (2.26); 7.8852 (1.36); 7.8659 (2.03); 7.8457 (1.21); 7.8326 (0.68); 7.8133 (0.98); 7.7931 (0.61); 7.7259 (3.97); 7.7077 (4.53); 7.5647 (0.75); 7.5617 (0.49); 7.5526 (0.59); 7.5464 (2.53); 7.5409 (0.76); 7.5311 (1.47); 7.5281 (2.12); 7.5250 (1.11); 7.4966 (3.81); 7.4773 (4.87); 7.4634 (0.84); 7.4596 (1.86); 7.4566 (1.09); 7.1990 (1.99); 7.1805 (1.92); 7.1416 (1.01); 7.1230 (0.96); 5.7960 (0.46); 5.7790 (0.48); 5.7532 (0.35); 5.3750 (6.93); 5.3540 (3.50); 5.0195 (0.55); 5.0144 (0.57); 4.9767 (0.49); 4.9714 (0.51); 4.9429 (0.57); 4.9402 (0.53); 4.9376 (0.48); 4.9175 (0.55); 4.9148 (0.50); 4.9120 (0.45); 4.1225 (0.47); 4.1059 (1.68); 4.0893 (1.70); 4.0727 (0.47); 3.4633 (0.61); 3.4566 (0.98); 3.4405 (2.76); 3.4247 (2.72); 3.4087 (1.00); 3.4019 (0.63); 3.3280 (60.97); 3.0752 (16.00); 3.0533 (8.12); 2.5117 (17.95); 2.5074 (33.96); 2.5029 (43.62); 2.4984 (31.88); 2.4941 (15.63); 2.3945 (0.83); 2.3761 (1.61); 2.3576 (0.90); 2.0223 (0.88); 2.0045 (0.88); 1.9868 (0.37); 1.5946 (0.62); 1.5761 (0.87); 1.5578 (0.68); 1.5512 (0.53); 1.5476 (0.45); 1.5331 (1.19); 1.5167 (1.69); 1.5130 (1.60); 1.4957 (1.79); 1.4793 (0.75); 1.3845 (0.73); 1.3661 (1.90); 1.3472 (2.48); 1.3281 (2.14); 1.3094 (1.74); 1.3014 (7.15); 1.2848 (7.02); 1.2602 (0.41); 1.2347 (0.37); 0.8947 (4.30); 0.8854 (0.52); 0.8764 (8.53); 0.8579 (3.66); 0.0079 (0.44); -0.0002 (11.06); -0.0085 (0.42)
Example 100, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4363 (1.13); 7.9530 (1.03); 7.7422 (2.09); 7.7397 (2.67); 7.7358 (1.27); 7.7272 (0.79); 7.7220 (3.47); 7.7182 (2.41); 7.5667 (0.47); 7.5553 (0.34); 7.5484 (1.69); 7.5425 (0.50); 7.5337 (0.94); 7.5303 (1.52); 7.5268 (0.74); 7.5048 (2.52); 7.5014 (1.07); 7.4897 (1.64); 7.4858 (3.14); 7.4723 (0.49); 7.4682 (1.23); 7.4647 (0.67); 7.3591 (0.68); 7.3419 (5.34); 7.3206 (1.46); 7.3179 (0.94); 7.3000 (0.72); 6.8902 (0.60); 6.8842 (1.30); 6.8782 (0.83); 6.8620 (0.56); 6.8561 (1.28); 6.8503 (0.87); 6.8344 (1.42); 6.8287 (1.55); 6.8230 (0.64); 6.8136 (1.21); 6.8077 (1.97); 6.8019 (0.97); 6.7866 (0.57); 6.7806 (0.47); 5.3455 (6.00); 4.8795 (7.70); 3.3316 (60.64); 3.0226 (16.00); 2.8905 (8.25); 2.7318 (6.79); 2.5249 (0.61); 2.5199 (1.00); 2.5115 (12.85); 2.5071 (25.50); 2.5025 (33.42); 2.4979 (24.14); 2.4934 (11.42); -0.0002 (3.58)
Example 101, Solvent: DMSO, Spectrometer: 300,16 MHz
10.7469 (2.01); 8.0501 (1.22); 8.0225 (1.59); 7.8555 (1.13); 7.8297 (1.58); 7.8028 (0.98); 7.4420 (0.86); 7.4156 (2.00); 7.3889 (1.62); 7.2982 (1.74); 7.2878 (2.96); 7.2721 (1.43); 7.2673 (1.58); 7.2585 (4.15); 7.2491 (2.27); 7.2438 (1.36); 7.1721 (1.72); 7.1601 (1.18); 7.1493 (1.96); 7.1348 (0.90); 7.1268 (0.84); 6.9187 (0.43); 6.9090 (3.60); 6.9024 (1.25); 6.8868 (1.07); 6.8802 (3.15); 5.7792 (10.93); 5.3829 (5.06); 3.8221 (0.32); 3.8006 (14.08); 3.7764 (0.65); 3.7715 (0.47); 3.7393 (16.00); 3.6481 (5.03); 3.3457 (19.77); 3.0509 (12.47); 2.5332 (4.56); 2.5275 (9.68); 2.5215 (13.43); 2.5155 (9.90); 2.5097 (4.84); 2.0090 (0.55); 1.3760 (1.22); 1.2529 (0.35); 1.1941 (0.33)
Example 102, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5242 (2.13); 8.0679 (1.37); 8.0472 (1.63); 7.8307 (1.34); 7.8114 (1.94); 7.7912 (1.22); 7.7241 (2.75); 7.7111 (0.90); 7.7062 (3.50); 7.7025 (2.47); 7.5645 (0.49); 7.5614 (0.32); 7.5526 (0.38); 7.5462 (1.71); 7.5406 (0.51); 7.5312 (0.95); 7.5280 (1.45); 7.5247 (0.76); 7.4971 (2.53); 7.4815 (1.78); 7.4779 (3.24); 7.4642 (0.51); 7.4602 (1.26); 7.4571 (0.76); 7.1399 (1.95); 7.1217 (1.87); 5.3548 (6.82); 3.3292 (42.97); 3.0730 (0.32); 3.0546 (16.00); 2.8909 (1.93); 2.7319 (1.57); 2.5252 (0.57); 2.5118 (11.07); 2.5074 (21.63); 2.5029 (28.29); 2.4983 (20.72); 2.4939 (10.11); 2.4089 (1.88); 2.3900 (2.51); 2.3714 (1.87); 1.5491 (0.55); 1.5323 (0.76); 1.5164 (0.78); 1.4985 (1.41); 1.4795 (2.01); 1.4614 (1.88); 1.4455 (0.59); 0.8855 (15.29); 0.8696 (14.75); -0.0002 (6.94)
Example 103, Solvent: DMSO, Spectrometer: 399,95 MHz
11.6620 (1.02); 7.9532 (1.10); 7.7277 (2.89); 7.7100 (3.52); 7.7063 (2.55); 7.5612 (0.50); 7.5582 (0.33); 7.5497 (0.38); 7.5430 (1.74); 7.5371 (0.53); 7.5280 (1.04); 7.5248 (1.55); 7.5216 (0.82); 7.4989 (2.68); 7.4798 (3.33); 7.4622 (1.26); 7.4588 (0.79); 7.2416 (4.49); 5.2743 (6.55); 5.1458 (0.56); 5.1370 (0.72); 5.1313 (1.01); 5.1252 (0.71); 5.1167 (0.57); 3.3296 (47.71); 3.0365 (16.00); 2.8909 (7.86); 2.7321 (6.63); 2.5113 (13.57); 2.5071 (25.86); 2.5026 (33.34); 2.4981 (24.40); 2.4939 (11.91); 1.8996 (0.48); 1.8832 (1.00); 1.8717 (1.05); 1.8505 (0.60); 1.8449 (0.54); 1.7182 (0.46); 1.7032 (1.18); 1.6959 (1.56); 1.6925 (1.61); 1.6833 (2.22); 1.6735 (2.37); 1.6562 (1.08); 1.6320 (0.42); 1.6069 (0.36); 1.5959 (0.69); 1.5853 (0.68); 1.5704 (1.26); 1.5457 (0.35); 0.0080 (0.35); -0.0002 (9.28)
Example 104, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2939 (6.31); 7.8558 (0.51); 7.8440 (1.72); 7.8357 (0.89); 7.8230 (4.05); 7.8168 (0.98); 7.8054 (4.73); 7.7926 (4.97); 7.7902 (5.55); 7.7720 (2.13); 7.7215 (6.33); 7.7090 (2.34); 7.7038 (7.73); 7.7000 (5.45); 7.6175 (0.64); 7.5968 (0.54); 7.5713 (1.20); 7.5596 (1.05); 7.5530 (4.07); 7.5472 (1.42); 7.5380 (2.43); 7.5349 (3.51); 7.5073 (6.06); 7.4915 (4.68); 7.4882 (7.26); 7.4705 (2.77); 7.4674 (1.61); 7.2332 (0.54); 7.2143 (0.52); 7.1100 (3.45); 7.1076 (3.49); 7.0925 (3.45); 7.0899 (3.28); 5.7602 (11.54); 5.4179 (1.98); 5.3443 (14.61); 5.2751 (0.43); 4.2022 (0.88); 4.1917 (4.86); 4.1865 (2.38); 4.1750 (10.43); 4.1584 (4.82); 3.9159 (0.66); 3.8980 (0.66); 3.5263 (1.92); 3.5082 (6.28); 3.4900 (6.44); 3.4775 (1.40); 3.4719 (2.08); 3.4596 (0.99); 3.4413 (0.36); 3.3443 (713.81); 3.3210 (3.83); 3.3024 (0.58); 2.9067 (3.20); 2.9001 (6.96); 2.8935 (3.66); 2.8869 (1.01); 2.8805 (0.47); 2.6802 (0.44); 2.6757 (0.64); 2.6713 (0.41); 2.5730 (2.91); 2.5665 (3.13); 2.5564 (6.33); 2.5498 (6.37); 2.5397 (3.91); 2.5331 (4.11); 2.5154 (39.34); 2.5111 (78.78); 2.5067 (105.05); 2.5023 (74.78); 2.4980 (35.14); 2.3377 (0.50); 2.3334 (0.65); 2.3289 (0.47); 2.0901 (2.66); 2.0782 (0.62); 1.9929 (1.19); 1.4235 (0.61); 1.2382 (0.57); 1.1961 (0.35); 1.1784 (0.67); 1.1606 (0.37); 1.1448 (0.84); 1.1275 (1.87); 1.1100 (0.80); 1.0675 (1.39); 1.0599 (7.31); 1.0495 (3.20); 1.0418 (16.00); 1.0314 (1.91); 1.0237 (6.94)
Example 105, Solvent: DMSO, Spectrometer: 399,95 MHz

10.6888 (2.29); 8.0230 (0.81); 8.0023 (1.05); 7.8853 (1.37); 7.8660 (1.90); 7.8458 (1.14); 7.7286 (2.72); 7.7157 (0.85); 7.7107 (3.53); 7.7070 (2.50); 7.5677 (0.49); 7.5558 (0.38); 7.5494 (1.72); 7.5437 (0.50); 7.5344 (0.92); 7.5311 (1.45); 7.5278 (0.74); 7.5000 (2.48); 7.4845 (1.77); 7.4808 (3.23); 7.4671 (0.52); 7.4631 (1.26); 7.4599 (0.72); 7.3445 (1.36); 7.3241 (2.63); 7.3037 (1.70); 7.2095 (1.86); 7.1910 (1.80); 7.0664 (1.30); 7.0612 (2.44); 7.0556 (1.80); 7.0393 (1.31); 7.0376 (1.44); 7.0347 (1.04); 7.0329 (0.93); 7.0196 (1.14); 7.0178 (1.14); 7.0149 (1.00); 7.0131 (0.84); 6.9594 (1.17); 6.9577 (1.14); 6.9533 (1.08); 6.9384 (1.06); 6.9323 (0.99); 5.3865 (6.45); 4.8441 (6.17); 3.3480 (144.23); 3.2984 (0.34); 3.0694 (16.00); 2.8911 (0.45); 2.7324 (0.35); 2.5262 (0.72); 2.5128 (13.63); 2.5084 (26.69); 2.5038 (34.77); 2.4993 (25.25); 2.4948 (12.15); -0.0002 (0.43)
Example 106, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2417 (2.97); 7.9536 (0.95); 7.8241 (0.68); 7.8032 (1.80); 7.7858 (2.31); 7.7775 (2.45); 7.7751 (2.42); 7.7569 (0.88); 7.7227 (2.89); 7.7047 (3.55); 7.7012 (2.48); 7.5630 (0.52); 7.5447 (1.70); 7.5394 (0.58); 7.5294 (1.13); 7.5267 (1.45); 7.4963 (2.60); 7.4769 (3.29); 7.4588 (1.64); 7.4539 (2.05); 7.4494 (2.24); 7.4435 (1.60); 7.4357 (2.21); 7.4307 (2.78); 7.4263 (1.72); 7.3234 (0.47); 7.3192 (0.61); 7.3050 (1.71); 7.3008 (1.58); 7.2944 (1.78); 7.2881 (2.65); 7.2825 (1.34); 7.2758 (1.44); 7.2708 (1.16); 7.2576 (0.62); 7.2524 (0.35); 7.2423 (0.38); 7.1068 (1.69); 7.1043 (1.56); 7.0896 (1.64); 7.0872 (1.47); 5.3307 (6.73); 4.3338 (1.79); 4.3167 (3.86); 4.2997 (1.85); 3.3359 (83.87); 3.0961 (1.82); 3.0791 (3.82); 3.0628 (16.00); 2.8910 (6.51); 2.7320 (5.63); 2.5076 (32.88); 2.5032 (39.64); 2.4988 (28.69); 2.4947 (14.33); 1.2352 (0.39); 0.0003 (5.61); -0.0002 (5.65)
Example 107, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1721 (2.46); 7.8286 (0.36); 7.8075 (2.24); 7.8003 (2.37); 7.7935 (5.60); 7.7793 (0.43); 7.7306 (0.33); 7.7250 (2.01); 7.7223 (2.61); 7.7185 (1.27); 7.7098 (0.80); 7.7046 (3.45); 7.7009 (2.39); 7.5616 (0.49); 7.5497 (0.38); 7.5433 (1.63); 7.5376 (0.49); 7.5284 (0.91); 7.5250 (1.44); 7.5216 (0.73); 7.4945 (2.40); 7.4911 (1.03); 7.4792 (1.69); 7.4754 (3.08); 7.4619 (0.50); 7.4578 (1.26); 7.4546 (0.69); 7.1006 (1.28); 7.0937 (1.26); 7.0866 (1.07); 7.0798 (1.21); 5.3301 (6.35); 4.0971 (1.77); 4.0804 (3.85); 4.0637 (1.82); 3.3283 (53.91); 3.0652 (16.00); 3.0545 (0.62); 2.5253 (0.57); 2.5205 (0.90); 2.5119 (11.11); 2.5074 (22.32); 2.5028 (29.56); 2.4982 (21.54); 2.4937 (10.36); 1.6184 (1.00); 1.6011 (1.41); 1.5818 (1.25); 1.5650 (0.47); 1.3629 (0.66); 1.3457 (0.90); 1.3334 (0.74); 1.3245 (0.96); 1.3098 (0.94); 1.2964 (2.73); 1.2872 (2.45); 1.2798 (2.81); 1.2710 (1.46); 1.2618 (0.93); 1.2345 (0.37); 0.8922 (0.61); 0.8869 (1.63); 0.8698 (5.16); 0.8595 (0.97); 0.8526 (1.69); -0.0002 (9.40)
Example 108, Solvent: DMSO, Spectrometer: 400,13 MHz
7.9621 (1.63); 7.4051 (3.60); 7.3952 (3.49); 7.3888 (3.48); 7.2892 (2.92); 7.2696 (2.25); 7.2481 (4.22); 7.1363 (2.57); 7.1160 (2.18); 6.5182 (2.73); 6.5005 (2.58); 6.4004 (2.72); 6.3798 (2.56); 6.0273 (6.83); 5.9367 (0.32); 5.2248 (0.33); 5.1887 (9.33); 5.0260 (0.42); 3.7964 (16.00); 3.7671 (1.28); 3.3492 (7.06); 3.0848 (15.07); 2.8992 (6.82); 2.7403 (6.47); 2.5119 (33.94); 1.9999 (0.81); 1.3674 (2.15); 1.2435 (0.54); 1.2014 (0.33); 1.1841 (0.55)
Example 109, Solvent: DMSO, Spectrometer: 399,95 MHz
10.3271 (3.10); 7.8427 (0.59); 7.8217 (2.51); 7.8111 (3.15); 7.8063 (5.43); 7.7907 (0.61); 7.7233 (3.28); 7.7050 (3.80); 7.7016 (2.83); 7.5629 (0.61); 7.5446 (1.89); 7.5391 (0.74); 7.5264 (1.63); 7.4964 (3.03); 7.4770 (3.60); 7.4594 (1.33); 7.1163 (1.58); 7.1106 (1.55); 7.1013 (1.43); 7.0957 (1.45); 6.0095 (0.33); 5.9963 (0.68); 5.9833 (0.68); 5.9700 (0.83); 5.9533 (0.85); 5.9402 (0.77); 5.9270 (0.81); 5.9139 (0.39); 5.3939 (1.55); 5.3897 (1.55); 5.3507 (2.00); 5.3495 (1.97); 5.3397 (8.04); 5.2409 (1.51); 5.2371 (1.45); 5.2146 (1.37); 5.2109 (1.32); 4.6268 (3.53); 4.6137 (3.35); 3.3417 (129.08); 3.0661 (16.00); 2.8909 (1.92); 2.7314 (1.69); 2.5077 (26.43); 2.5035 (32.92); 2.4992 (25.05)
Example 110, Solvent: DMSO, Spectrometer: 399,95 MHz
10.0548 (2.57); 7.9532 (0.61); 7.8197 (0.51); 7.8038 (0.33); 7.7987 (1.99); 7.7830 (3.68); 7.7808 (3.18); 7.7646 (0.58); 7.7302 (0.33); 7.7247 (1.94); 7.7220 (2.61); 7.7182 (1.27); 7.7094 (0.79); 7.7043 (3.41); 7.7005 (2.35); 7.5617 (0.48); 7.5499 (0.36); 7.5434 (1.61); 7.5377 (0.48); 7.5285 (0.87); 7.5252 (1.43); 7.5217 (0.72); 7.4949 (2.40); 7.4915 (1.04); 7.4796 (1.62); 7.4758 (3.05); 7.4622 (0.47); 7.4581 (1.20); 7.4549 (0.67); 7.0923 (1.33); 7.0873 (1.33); 7.0766 (1.19); 7.0715 (1.26); 5.3225 (6.45); 5.0982 (0.54); 5.0902 (0.65); 5.0831 (0.91); 5.0762 (0.62); 5.0681 (0.50); 3.3296 (49.98); 3.0659 (16.00); 2.8907 (4.97); 2.7320 (3.82); 2.7311 (3.98); 2.5252 (0.63); 2.5203 (0.96); 2.5118 (10.77); 2.5073 (21.36); 2.5027 (28.12); 2.4981 (20.42); 2.4936 (9.73); 1.8855 (0.35); 1.8780 (0.43); 1.8663 (0.87); 1.8495 (0.80); 1.8362 (0.63); 1.8309 (0.55); 1.8225 (0.52); 1.7047 (0.59); 1.6833 (2.80); 1.6742 (1.66); 1.6689 (1.26); 1.6630 (1.06); 1.6539 (0.96); 1.6440 (0.57); 1.6363 (0.54); 1.5916 (0.45); 1.5826 (0.56); 1.5764 (0.64); 1.5611 (1.08); 1.5571 (0.89); 1.5509 (1.03); -0.0002 (7.45)
Example 111, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5173 (3.55); 8.0818 (2.07); 8.0610 (2.40); 7.8400 (1.49); 7.8204 (2.59); 7.8006 (1.35); 7.7321 (4.08); 7.7130 (4.68); 7.5713 (0.69); 7.5537 (2.02); 7.5358 (1.92); 7.5048 (3.39); 7.4858 (4.32); 7.4672 (1.60); 7.1487 (2.67); 7.1301 (2.55); 5.3622 (9.11); 4.0634 (0.77); 4.0458 (2.29); 4.0280 (2.34); 4.0104 (0.78); 3.5757 (1.57); 3.3373 (54.92); 3.0616 (16.00); 2.5108 (37.34); 2.3989 (2.30); 2.3805 (4.60); 2.3622 (2.55); 1.9970 (9.33); 1.6150 (0.58); 1.5967 (1.91); 1.5789 (2.76); 1.5616 (1.95); 1.5447 (0.63); 1.3107 (1.68); 1.2872 (4.54); 1.2794 (4.48); 1.2001 (2.47); 1.1823 (4.81); 1.1646 (2.43); 0.8870 (3.49); 0.8708 (7.31); 0.8535 (3.47)
Example 112, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1208 (2.89); 7.8322 (0.46); 7.8112 (1.96); 7.7990 (2.44); 7.7954 (3.87); 7.7783 (0.52); 7.4212 (1.03); 7.4012 (2.17); 7.3812 (1.57); 7.2836 (1.41); 7.2802 (1.23); 7.2667 (0.77); 7.2630 (1.17); 7.2609 (0.94); 7.2455 (1.55); 7.2396 (1.91); 7.2354 (1.30); 7.1432 (1.08); 7.1414 (1.11); 7.1368 (0.98); 7.1351 (0.95); 7.1226 (0.95); 7.1207 (0.92); 7.1163 (0.93); 7.0998 (1.28); 7.0945 (1.26); 7.0843 (1.15); 7.0791 (1.19); 5.7679 (0.34); 5.3315 (5.87); 4.6766 (0.39); 4.6635 (0.43); 4.6541 (0.70); 4.6446 (0.51); 4.6316 (0.34); 3.7886 (16.00); 3.4026 (2.53); 3.3527 (178.70); 3.3291 (0.82); 3.3028 (1.97); 3.0577 (14.67); 2.5595 (0.42); 2.5185 (11.43); 2.5141 (23.24); 2.5096 (31.23); 2.5051 (22.06); 2.5007 (10.07); 2.4597 (0.33); 1.8754 (0.69); 1.8619 (0.81); 1.8498 (0.83); 1.7325 (0.70); 1.7239 (0.75); 1.7097 (0.81); 1.7018 (0.74); 1.5284 (0.36); 1.5177 (0.38); 1.4971 (0.42); 1.4340 (0.80); 1.4088 (1.05); 1.3845 (1.17); 1.3585 (0.94); 1.3330 (0.71); 1.3263 (0.79); 1.3005 (0.41); 1.2779 (0.34); 1.2490 (0.53); 1.2223 (0.32)
Example 113, Solvent: DMSO, Spectrometer: 399,95 MHz

12.5540 (0.80); 7.9538 (0.81); 7.7433 (1.98); 7.7404 (2.71); 7.7364 (1.31); 7.7280 (0.79); 7.7228 (3.57); 7.7190 (2.45); 7.6150 (1.60); 7.6111 (1.69); 7.5955 (1.74); 7.5915 (1.73); 7.5675 (0.49); 7.5561 (0.35); 7.5492 (1.69); 7.5433 (0.50); 7.5345 (0.94); 7.5311 (1.55); 7.5276 (0.77); 7.5052 (2.53); 7.5018 (1.07); 7.4902 (1.59); 7.4862 (3.09); 7.4729 (0.48); 7.4687 (1.26); 7.4652 (0.69); 7.3483 (4.70); 7.3229 (0.76); 7.3189 (0.76); 7.3043 (1.04); 7.3020 (1.20); 7.3006 (1.18); 7.2983 (1.03); 7.2837 (0.98); 7.2796 (0.92); 6.9421 (1.20); 6.9394 (1.71); 6.9307 (1.25); 6.9274 (0.83); 6.9212 (1.20); 6.9184 (1.52); 6.9117 (1.75); 6.9084 (1.26); 6.8926 (0.93); 6.8893 (0.75); 5.3443 (5.56); 5.1249 (0.37); 5.1085 (1.38); 5.0919 (1.38); 5.0754 (0.37); 3.3375 (33.52); 3.0312 (16.00); 2.8906 (6.70); 2.7329 (5.32); 2.7316 (5.38); 2.5217 (0.49); 2.5131 (6.08); 2.5086 (12.24); 2.5040 (16.21); 2.4994 (11.72); 2.4948 (5.51); 1.5957 (5.55); 1.5792 (5.51); -0.0002 (3.65)

Example 114, Solvent: DMSO, Spectrometer: 399,95 MHz

10.8702 (1.70); 8.1751 (1.42); 8.1545 (1.70); 7.9528 (0.63); 7.9350 (1.32); 7.9154 (1.92); 7.8954 (1.21); 7.7304 (2.73); 7.7267 (1.39); 7.7174 (0.88); 7.7126 (3.87); 7.7090 (3.07); 7.6955 (1.19); 7.6910 (1.34); 7.6763 (0.74); 7.6721 (0.75); 7.6099 (0.35); 7.6053 (0.36); 7.5965 (0.39); 7.5916 (0.77); 7.5889 (0.59); 7.5872 (0.60); 7.5847 (0.51); 7.5767 (0.64); 7.5736 (0.64); 7.5707 (0.85); 7.5652 (0.83); 7.5616 (0.43); 7.5571 (0.53); 7.5528 (0.75); 7.5464 (1.70); 7.5408 (0.51); 7.5315 (0.93); 7.5282 (1.48); 7.5249 (0.76); 7.4981 (2.54); 7.4827 (1.70); 7.4790 (3.20); 7.4654 (0.50); 7.4614 (1.27); 7.4582 (0.74); 7.3500 (0.97); 7.3305 (1.97); 7.3254 (1.16); 7.3230 (1.02); 7.3137 (1.91); 7.3117 (1.78); 7.3044 (0.84); 7.3022 (0.81); 7.2951 (1.00); 7.2927 (0.81); 7.2431 (1.90); 7.2246 (1.80); 5.3929 (6.33); 3.3399 (89.26); 3.0941 (16.00); 3.0812 (0.41); 2.8906 (4.90); 2.7311 (3.99); 2.5255 (0.57); 2.5206 (0.91); 2.5121 (11.45); 2.5077 (22.91); 2.5031 (30.33); 2.4985 (22.07); 2.4940 (10.54); -0.0002 (1.99)

Example 115, Solvent: DMSO, Spectrometer: 399,95 MHz

10.5535 (2.14); 8.0453 (1.37); 8.0248 (1.75); 7.9533 (0.58); 7.8791 (1.33); 7.8597 (1.83); 7.8396 (1.15); 7.7277 (2.65); 7.7239 (1.28); 7.7149 (0.79); 7.7098 (3.48); 7.7061 (2.42); 7.5674 (0.50); 7.5554 (0.37); 7.5490 (1.69); 7.5434 (0.49); 7.5341 (0.87); 7.5308 (1.43); 7.5274 (0.72); 7.4986 (2.43); 7.4952 (1.03); 7.4831 (1.67); 7.4794 (3.16); 7.4657 (0.48); 7.4617 (1.25); 7.4585 (0.70); 7.2046 (1.82); 7.1866 (1.74); 7.0277 (0.86); 7.0235 (0.93); 7.0075 (1.89); 7.0037 (1.74); 6.9928 (1.10); 6.9892 (1.35); 6.9793 (1.11); 6.9733 (1.45); 6.9696 (1.93); 6.9605 (1.74); 6.9565 (1.00); 6.9409 (0.80); 6.9370 (0.55); 6.8791 (1.07); 6.8750 (1.06); 6.8600 (1.42); 6.8559 (1.24); 6.8409 (0.58); 6.8369 (0.54); 5.3912 (6.09); 4.9657 (0.34); 4.9492 (1.22); 4.9325 (1.22); 4.9160 (0.35); 3.8202 (15.07); 3.3287 (41.87); 3.0620 (16.00); 2.8905 (4.85); 2.7313 (3.79); 2.5251 (0.62); 2.5202 (1.01); 2.5117 (12.12); 2.5072 (24.14); 2.5026 (31.85); 2.4980 (23.10); 2.4935 (10.99); 1.5534 (5.69); 1.5368 (5.65); 0.0080 (0.39); -0.0002 (11.88); -0.0086 (0.37)

Example 116, Solvent: DMSO, Spectrometer: 400,13 MHz

7.7403 (2.64); 7.7225 (3.27); 7.7188 (2.39); 7.5620 (0.53); 7.5503 (0.45); 7.5436 (1.64); 7.5379 (0.62); 7.5288 (1.03); 7.5256 (1.49); 7.4993 (2.51); 7.4803 (3.04); 7.4627 (1.21); 7.4594 (0.75); 7.3734 (1.12); 7.3554 (1.47); 7.3527 (1.43); 7.3347 (1.25); 6.5737 (0.68); 6.5594 (1.25); 6.5454 (0.68); 6.4757 (1.88); 6.4583 (1.83); 6.4262 (1.83); 6.4052 (1.78); 5.7631 (6.38); 5.1946 (6.31); 3.3269 (28.63); 3.3037 (0.54); 3.2732 (0.40); 3.0709 (16.00); 3.0541 (2.95); 3.0380 (1.79); 2.6757 (0.35); 2.5154 (22.73); 2.5112 (44.61); 2.5068 (59.64); 2.5024 (44.34); 2.3336 (0.48); 2.3289 (0.37); 1.7372 (1.18); 1.7049 (1.27); 1.6654 (1.03); 1.6368 (1.42); 1.6109 (0.90); 1.5936 (0.69); 1.5153 (0.46); 1.5035 (0.48); 1.4961 (0.57); 1.4872 (0.68); 1.4780 (0.58); 1.4693 (0.50); 1.4594 (0.43); 1.1809 (0.82); 1.1503 (1.56); 1.1275 (1.24); 1.0996 (0.36); 1.0938 (0.43); 0.9326 (0.53); 0.9028 (1.13); 0.8731 (1.01); 0.8453 (0.49)

Example 117, Solvent: DMSO, Spectrometer: 400,13 MHz

10.3747 (3.00); 7.8516 (0.37); 7.8305 (2.52); 7.8245 (2.72); 7.8171 (5.74); 7.8036 (0.56); 7.5368 (2.33); 7.5220 (0.84); 7.5175 (0.74); 7.5125 (1.13); 7.5092 (1.16); 7.4998 (1.07); 7.4953 (0.82); 7.4443 (1.06); 7.4399 (1.48); 7.4232 (3.85); 7.4197 (3.53); 7.4154 (3.05); 7.4132 (2.99); 7.4078 (1.06); 7.3959 (3.95); 7.3913 (1.75); 7.3807 (1.43); 7.3767 (1.95); 7.3698 (2.93); 7.3685 (2.95); 7.3564 (4.77); 7.3457 (1.15); 7.3386 (1.55); 7.3308 (0.60); 7.3252 (0.51); 7.3212 (0.61); 7.3172 (0.41); 7.1149 (1.34); 7.1074 (1.36); 7.1015 (1.21); 7.0941 (1.31); 5.7646 (0.50); 5.3358 (6.92); 5.2055 (0.43); 5.1880 (7.58); 3.3664 (0.62); 3.3287 (11.77); 3.0586 (16.00); 2.5611 (0.48); 2.5569 (0.47); 2.5187 (10.61); 2.5143 (20.78); 2.5099 (27.63); 2.5054 (20.12); 2.5011 (10.23); 2.4685 (0.75); 2.4639 (0.79); 2.4593 (0.79); 2.3378 (11.35)

Example 118, Solvent: DMSO, Spectrometer: 399,95 MHz

10.3719 (1.81); 8.0936 (0.97); 8.0729 (1.16); 7.9533 (0.46); 7.8377 (1.27); 7.8184 (1.73); 7.7982 (1.18); 7.7229 (2.03); 7.7203 (2.60); 7.7164 (1.24); 7.7074 (0.96); 7.7025 (3.46); 7.6987 (2.34); 7.5633 (0.50); 7.5514 (0.37); 7.5450 (1.66); 7.5393 (0.50); 7.5300 (0.89); 7.5267 (1.42); 7.5233 (0.71); 7.4956 (2.45); 7.4922 (1.03); 7.4803 (1.68); 7.4765 (3.14); 7.4629 (0.48); 7.4588 (1.25); 7.4556 (0.68); 7.1366 (1.73); 7.1356 (1.73); 7.1181 (1.67); 5.3482 (6.18); 3.3881 (0.63); 3.3675 (0.98); 3.3450 (1.22); 3.3310 (66.49); 3.0506 (16.00); 2.8910 (3.83); 2.7323 (3.00); 2.7314 (2.94); 2.5255 (0.56); 2.5207 (0.90); 2.5122 (10.83); 2.5076 (21.65); 2.5030 (28.64); 2.4984 (20.76); 2.4939 (9.81); 2.2280 (0.76); 2.2225 (0.64); 2.2043 (1.00); 2.1990 (1.29); 2.1826 (0.80); 2.1775 (1.17); 2.1550 (0.38); 2.1276 (0.33); 2.1207 (0.40); 2.1183 (0.41); 2.1060 (0.79); 2.0975 (1.04); 2.0908 (0.64); 2.0847 (0.68); 2.0758 (0.97); 2.0684 (0.57); 1.9514 (0.37); 1.9467 (0.32); 1.9286 (0.60); 1.9248 (0.61); 1.9076 (0.35); 1.9021 (0.83); 1.8808 (0.44); 1.7988 (0.53); 1.7880 (0.34); 1.7850 (0.33); 1.7746 (0.41); 0.8759 (0.50); 0.8627 (0.36); -0.0002 (5.96)

Example 119, Solvent: DMSO, Spectrometer: 400,13 MHz

10.5103 (2.58); 7.8458 (0.89); 7.8253 (1.65); 7.8065 (1.51); 7.7503 (2.13); 7.7316 (3.58); 7.7193 (0.88); 7.7142 (3.30); 7.7105 (2.35); 7.5702 (0.47); 7.5583 (0.38); 7.5519 (1.61); 7.5462 (0.50); 7.5369 (0.91); 7.5337 (1.41); 7.5303 (0.74); 7.5036 (2.38); 7.4882 (1.66); 7.4845 (3.00); 7.4709 (0.49); 7.4669 (1.16); 7.4637 (0.68); 7.1399 (1.70); 7.1225 (1.65); 5.7646 (5.66); 5.3509 (6.05); 5.0796 (0.47); 5.0621 (1.86); 5.0444 (1.88); 5.0268 (0.48); 3.6946 (16.00); 3.3260 (15.16); 3.0829 (15.38); 2.5596 (0.41); 2.5319 (0.63); 2.5186 (12.09); 2.5142 (24.34); 2.5097 (32.66); 2.5052 (23.20); 2.5008 (10.83); 2.4598 (0.39); 1.9969 (0.93); 1.4619 (6.33); 1.4443 (6.26); 1.2544 (0.44); 1.1828 (0.51); 0.8664 (0.63)

Example 120, Solvent: DMSO, Spectrometer: 400,13 MHz

9.8770 (1.66); 7.8031 (0.40); 7.7821 (1.16); 7.7651 (1.72); 7.7622 (1.52); 7.7582 (1.65); 7.7411 (0.55); 7.7369 (0.47); 7.7305 (1.28); 7.7277 (1.67); 7.7238 (0.88); 7.7152 (0.59); 7.7100 (2.21); 7.7063 (1.58); 7.5501 (1.04); 7.5444 (0.34); 7.5352 (0.60); 7.5318 (0.95); 7.5284 (0.52);

7.5012 (1.52); 7.4978 (0.72); 7.4859 (1.07); 7.4821 (1.97); 7.4686 (0.35); 7.4645 (0.83); 7.4613 (0.47); 7.0799 (0.87); 7.0761 (0.90); 7.0631 (0.85); 7.0593 (0.85); 5.3253 (3.92); 3.4053 (5.47); 3.3907 (0.44); 3.3555 (386.71); 3.3239 (2.18); 3.3057 (4.68); 3.0672 (10.54); 2.5628 (0.42); 2.5584 (0.60); 2.5538 (0.45); 2.5309 (1.03); 2.5262 (1.65); 2.5175 (16.50); 2.5131 (34.24); 2.5085 (47.05); 2.5040 (34.35); 2.4995 (17.21); 2.4634 (0.82); 2.4588 (0.82); 2.4543 (0.62); 1.7964 (0.40); 1.7779 (1.36); 1.7591 (1.45); 1.7407 (0.49); 1.4327 (16.00); 1.2515 (0.87); 0.9126 (1.76); 0.8941 (4.06); 0.8753 (1.92); 0.8632 (1.53); 0.8455 (0.60)
Example 121, Solvent: DMSO, Spectrometer: 400,13 MHz
7.4804 (1.87); 7.4654 (5.40); 7.4431 (3.13); 7.4300 (2.24); 7.3773 (0.81); 7.3582 (3.18); 7.3431 (5.61); 6.5698 (2.81); 6.5518 (2.73); 6.4592 (2.87); 6.4384 (2.79); 6.2730 (0.68); 5.2206 (9.93); 4.6025 (1.13); 2.8986 (0.33); 2.5108 (35.19); 2.3426 (16.00); 1.3680 (0.35)
Example 122, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2685 (2.98); 7.8412 (0.42); 7.8202 (2.15); 7.8110 (2.41); 7.8053 (5.21); 7.7901 (0.50); 7.7290 (2.66); 7.7163 (0.88); 7.7113 (3.45); 7.7076 (2.43); 7.5675 (0.49); 7.5643 (0.33); 7.5556 (0.42); 7.5492 (1.67); 7.5435 (0.51); 7.5342 (0.92); 7.5309 (1.45); 7.5276 (0.75); 7.5000 (2.45); 7.4845 (1.76); 7.4808 (3.12); 7.4672 (0.53); 7.4632 (1.24); 7.4600 (0.73); 7.1118 (1.30); 7.1057 (1.29); 7.0972 (1.15); 7.0911 (1.24); 5.7661 (6.09); 5.3394 (6.38); 4.1390 (1.65); 4.1236 (3.56); 4.1078 (1.74); 3.3408 (21.83); 3.0678 (16.00); 2.5575 (0.36); 2.5300 (0.64); 2.5252 (1.07); 2.5165 (11.30); 2.5121 (22.87); 2.5076 (30.60); 2.5031 (21.66); 2.4987 (10.00); 2.4578 (0.36); 2.3548 (0.75); 2.3437 (0.49); 2.3348 (0.89); 2.3299 (0.74); 2.3257 (0.93); 2.3152 (0.88); 2.3061 (0.73); 2.2969 (0.41); 2.2862 (0.77); 1.9944 (0.92); 1.7148 (0.82); 1.6975 (1.24); 1.6794 (1.22); 1.6638 (0.52); 1.6264 (0.57); 1.6072 (1.12); 1.5987 (0.69); 1.5893 (1.26); 1.5748 (0.59); 1.5673 (0.74); 1.1788 (0.50); 0.8619 (0.38)
Example 123, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4657 (0.52); 7.7435 (1.98); 7.7407 (2.78); 7.7368 (1.34); 7.7284 (0.81); 7.7231 (3.56); 7.7193 (2.46); 7.6096 (3.22); 7.6031 (3.36); 7.5674 (0.49); 7.5642 (0.32); 7.5560 (0.35); 7.5491 (1.71); 7.5432 (0.52); 7.5344 (0.94); 7.5310 (1.58); 7.5275 (0.80); 7.5055 (2.62); 7.5022 (1.13); 7.4906 (1.60); 7.4865 (3.12); 7.4732 (0.49); 7.4691 (1.27); 7.4655 (0.71); 7.3681 (1.67); 7.3616 (1.59); 7.3458 (2.41); 7.3415 (5.22); 7.1019 (2.86); 7.0795 (2.44); 5.3418 (5.76); 5.0032 (6.64); 3.3373 (39.41); 3.0341 (16.00); 2.8904 (0.58); 2.7325 (0.45); 2.7313 (0.48); 2.5260 (0.37); 2.5213 (0.58); 2.5126 (7.10); 2.5081 (14.27); 2.5035 (18.89); 2.4989 (13.65); 2.4944 (6.45); -0.0002 (4.18)
Example 124, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5358 (1.87); 8.1245 (1.44); 8.1040 (1.68); 7.9540 (0.34); 7.8403 (1.29); 7.8211 (1.78); 7.8008 (1.23); 7.7331 (0.32); 7.7251 (2.68); 7.7212 (1.36); 7.7124 (0.83); 7.7072 (3.64); 7.7035 (2.46); 7.5646 (0.49); 7.5614 (0.32); 7.5526 (0.37); 7.5463 (1.68); 7.5406 (0.53); 7.5313 (0.89); 7.5280 (1.43); 7.5246 (0.75); 7.4964 (2.51); 7.4930 (1.08); 7.4810 (1.73); 7.4773 (3.21); 7.4636 (0.50); 7.4596 (1.28); 7.4564 (0.71); 7.1509 (1.79); 7.1326 (1.76); 5.3651 (6.25); 3.3307 (55.19); 3.0885 (0.43); 3.0570 (16.00); 2.8913 (2.78); 2.7326 (2.23); 2.5257 (0.55); 2.5209 (0.89); 2.5124 (10.97); 2.5079 (21.87); 2.5033 (28.84); 2.4987 (20.95); 2.4942 (10.00); 2.4785 (0.51); 2.4675 (0.56); 2.4557 (0.78); 2.4435 (0.53); 2.4331 (0.42); 1.5830 (0.57); 1.5644 (0.75); 1.5604 (0.65); 1.5494 (1.04); 1.5419 (0.73); 1.5308 (1.10); 1.5270 (1.06); 1.5083 (0.92); 1.4565 (0.86); 1.4435 (1.04); 1.4380 (1.00); 1.4248 (1.29); 1.4101 (0.65); 1.4049 (0.78); 1.3916 (0.57); 1.2831 (0.40); 0.8761 (0.72); 0.8625 (0.55); 0.8497 (6.16); 0.8312 (13.00); 0.8126 (5.44); -0.0002 (6.14)
Example 125, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6838 (2.13); 8.0275 (0.70); 8.0071 (0.89); 7.9529 (0.51); 7.8836 (1.34); 7.8643 (1.83); 7.8441 (1.13); 7.7280 (2.62); 7.7242 (1.26); 7.7153 (0.76); 7.7103 (3.39); 7.7065 (2.35); 7.5672 (0.47); 7.5553 (0.35); 7.5488 (1.63); 7.5432 (0.47); 7.5339 (0.86); 7.5306 (1.41); 7.5273 (0.71); 7.4996 (2.39); 7.4962 (1.02); 7.4842 (1.62); 7.4804 (3.08); 7.4668 (0.47); 7.4628 (1.21); 7.4596 (0.68); 7.2637 (0.65); 7.2605 (0.68); 7.2418 (0.90); 7.2344 (0.71); 7.2306 (0.73); 7.2140 (0.86); 7.2070 (1.85); 7.1882 (1.71); 7.1166 (1.23); 7.1131 (1.25); 7.1062 (1.07); 7.0992 (2.47); 7.0861 (1.08); 7.0815 (1.08); 7.0656 (0.40); 6.9913 (0.47); 6.9839 (0.46); 6.9797 (0.57); 6.9753 (0.74); 6.9710 (0.51); 6.9688 (0.47); 6.9620 (0.72); 6.9595 (0.61); 6.9568 (0.81); 6.9417 (0.34); 5.3838 (6.25); 4.8919 (5.88); 3.3422 (120.00); 3.0701 (16.00); 2.8908 (4.16); 2.7314 (3.25); 2.5258 (0.59); 2.5209 (0.96); 2.5125 (12.14); 2.5080 (24.22); 2.5034 (32.04); 2.4988 (23.30); 2.4943 (11.11); -0.0002 (0.47)
Example 126, Solvent: DMSO, Spectrometer: 399,95 MHz
12.2345 (1.79); 7.9531 (0.65); 7.7473 (0.32); 7.7416 (2.17); 7.7390 (2.79); 7.7350 (1.36); 7.7265 (0.85); 7.7213 (3.63); 7.7175 (2.55); 7.5658 (0.50); 7.5626 (0.34); 7.5544 (0.37); 7.5475 (1.77); 7.5416 (0.54); 7.5328 (0.99); 7.5294 (1.57); 7.5259 (0.79); 7.5039 (2.61); 7.5005 (1.12); 7.4889 (1.73); 7.4849 (3.27); 7.4715 (0.51); 7.4674 (1.27); 7.4638 (0.72); 7.3688 (0.58); 7.3548 (8.10); 7.3484 (3.98); 7.3392 (5.49); 7.3374 (5.17); 7.3256 (0.54); 7.3220 (0.68); 7.3198 (0.76); 7.3011 (0.72); 7.2948 (0.86); 7.2880 (0.73); 7.2835 (0.57); 7.2793 (0.84); 7.2704 (0.45); 7.2651 (0.33); 5.3402 (6.12); 4.8146 (0.33); 4.5665 (1.64); 4.5370 (2.66); 4.4470 (2.69); 4.4175 (1.75); 4.2618 (0.44); 4.2452 (1.72); 4.2284 (1.75); 4.2118 (0.45); 3.3318 (62.61); 3.0271 (16.00); 2.8906 (5.33); 2.7319 (4.34); 2.5251 (0.72); 2.5201 (1.16); 2.5117 (13.47); 2.5072 (26.54); 2.5026 (34.66); 2.4980 (25.07); 2.4935 (11.92); 2.2691 (0.44); 1.3627 (6.04); 1.3460 (5.97); -0.0002 (4.02)
Example 127, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2000 (6.98); 7.8389 (1.87); 7.8181 (4.15); 7.8002 (4.53); 7.7817 (5.60); 7.7629 (2.39); 7.7251 (6.61); 7.7073 (7.91); 7.7036 (5.68); 7.5740 (1.19); 7.5708 (0.90); 7.5621 (1.14); 7.5556 (3.97); 7.5500 (1.39); 7.5406 (2.48); 7.5376 (3.46); 7.5099 (6.02); 7.4907 (7.25); 7.4731 (2.66); 7.4700 (1.61); 7.1049 (3.87); 7.1031 (3.86); 7.0873 (3.71); 5.4189 (0.40); 5.3416 (14.90); 4.9351 (0.33); 4.9193 (1.53); 4.9040 (3.12); 4.8886 (3.12); 4.8733 (1.46); 3.5367 (2.01); 3.5187 (6.44); 3.5005 (6.54); 3.4824 (2.14); 3.4615 (0.52); 3.4113 (5.44); 3.3608 (562.41); 3.3260 (0.72); 3.3101 (8.40); 3.2614 (0.35); 2.9312 (3.09); 2.9247 (6.61); 2.9182 (3.06); 2.6840 (0.50); 2.6792 (0.64); 2.6749 (0.47); 2.5607 (1.30); 2.5565 (1.25); 2.5340 (7.87); 2.5278 (11.07); 2.5189 (47.05); 2.5147 (84.48); 2.5104 (107.33); 2.5060 (77.67); 2.4686 (0.81); 2.4641 (1.25); 2.4596 (1.62); 2.4551 (1.28); 2.3416 (0.54); 2.3373 (0.67); 2.3327 (0.48); 1.9964 (1.24); 1.3706 (1.15); 1.3167 (15.46); 1.3010 (15.61); 1.2836 (1.00); 1.2656 (0.90); 1.2502 (1.98); 1.1986 (0.44); 1.1808 (0.70); 1.1630 (0.37); 1.1258 (0.38); 1.0638 (7.30); 1.0458 (16.00); 1.0276 (7.04); 0.8805 (0.81); 0.8640 (2.18); 0.8463 (0.88)
Example 128, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7155 (2.03); 8.0201 (1.22); 7.9995 (1.58); 7.9531 (0.49); 7.8666 (1.32); 7.8474 (1.76); 7.8271 (1.13); 7.7281 (1.97); 7.7256 (2.53); 7.7217

(1.20); 7.7129 (0.76); 7.7078 (3.40); 7.7040 (2.35); 7.5673 (0.49); 7.5553 (0.35); 7.5490 (1.63); 7.5433 (0.47); 7.5340 (0.85); 7.5306 (1.40); 7.5272 (0.69); 7.4980 (2.33); 7.4946 (0.96); 7.4825 (1.64); 7.4788 (3.05); 7.4652 (0.47); 7.4611 (1.23); 7.4580 (0.68); 7.1982 (1.73); 7.1806 (1.68); 7.1660 (0.97); 7.1456 (2.10); 7.1255 (1.31); 6.7582 (2.69); 6.7413 (1.17); 6.7141 (0.88); 6.6937 (0.85); 6.6877 (0.71); 5.3827 (5.91); 5.0545 (1.06); 5.0380 (1.07); 3.3429 (107.22); 3.0573 (16.00); 2.8908 (4.15); 2.7323 (3.24); 2.7313 (3.21); 2.5260 (0.57); 2.5212 (0.93); 2.5126 (12.24); 2.5081 (24.48); 2.5035 (32.21); 2.4989 (23.19); 2.4944 (10.92); 2.2430 (9.37); 1.5184 (5.42); 1.5019 (5.40); -0.0002 (1.29)
Example 129, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6045 (0.61); 7.5849 (2.48); 7.5672 (8.15); 7.5630 (8.02); 7.5548 (9.54); 7.5335 (4.79); 7.5141 (2.65); 7.4570 (1.82); 7.4342 (2.49); 7.4185 (1.32); 6.6476 (4.56); 6.6296 (4.37); 6.5329 (4.74); 6.5120 (4.57); 6.3970 (0.74); 6.3109 (0.40); 5.3044 (16.00); 5.1127 (0.42); 5.0351 (0.34); 4.7538 (1.76); 4.5189 (0.41); 4.4872 (0.34); 2.9502 (0.66); 2.7909 (0.62); 2.5626 (54.18); 2.3891 (0.36); 1.4191 (0.50); -0.0002 (2.62)
Example 130, Solvent: DMSO, Spectrometer: 400,13 MHz
10.6899 (5.67); 8.0245 (2.42); 8.0039 (3.35); 7.9045 (3.07); 7.8853 (4.11); 7.8650 (2.50); 7.7289 (5.97); 7.7252 (2.97); 7.7162 (1.84); 7.7112 (7.77); 7.7074 (5.51); 7.5829 (0.57); 7.5800 (1.08); 7.5768 (0.71); 7.5682 (0.82); 7.5616 (3.73); 7.5559 (1.15); 7.5467 (2.06); 7.5434 (3.29); 7.5400 (1.72); 7.5145 (5.55); 7.4992 (3.66); 7.4954 (6.95); 7.4819 (1.09); 7.4778 (2.68); 7.4746 (1.56); 7.2215 (4.06); 7.2037 (3.89); 7.0153 (2.78); 7.0110 (2.28); 7.0073 (1.43); 6.9983 (1.32); 6.9944 (5.05); 6.9904 (2.48); 6.9860 (0.80); 6.9096 (1.34); 6.9030 (1.64); 6.8933 (2.64); 6.8871 (4.18); 6.8820 (2.67); 6.8693 (9.15); 6.8657 (6.94); 6.8610 (4.65); 6.8495 (3.54); 6.8455 (0.95); 6.8371 (0.71); 6.8295 (0.67); 6.8255 (0.57); 5.3987 (13.52); 5.0934 (1.73); 5.0857 (2.23); 5.0819 (2.46); 5.0744 (1.78); 4.4509 (0.98); 4.4434 (1.16); 4.4215 (3.90); 4.4141 (3.74); 4.4071 (3.72); 4.3949 (3.44); 4.3776 (1.05); 4.3656 (1.10); 4.0433 (0.55); 4.0255 (0.55); 3.5160 (1.76); 3.4979 (5.98); 3.4797 (6.13); 3.4622 (2.17); 3.4131 (7.23); 3.3948 (0.59); 3.3824 (1.27); 3.3630 (703.91); 3.3279 (1.21); 3.3203 (1.10); 3.3134 (6.00); 2.6835 (0.40); 2.6789 (0.57); 2.6745 (0.41); 2.5645 (0.76); 2.5600 (0.98); 2.5555 (0.64); 2.5323 (1.32); 2.5276 (2.19); 2.5188 (33.47); 2.5144 (71.25); 2.5099 (97.99); 2.5054 (70.26); 2.5010 (32.73); 2.4647 (0.92); 2.4603 (1.04); 2.4559 (0.75); 2.3413 (0.47); 2.3367 (0.65); 2.3323 (0.46); 1.9958 (2.57); 1.3751 (0.35); 1.2514 (0.98); 1.1981 (0.72); 1.1803 (1.39); 1.1624 (0.67); 1.0707 (6.92); 1.0527 (16.00); 1.0344 (6.79); 0.8803 (0.46); 0.8635 (1.48); 0.8459 (0.57)
Example 131, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8705 (1.10); 7.7857 (0.75); 7.7701 (1.59); 7.7666 (1.14); 7.4220 (0.40); 7.4020 (0.87); 7.3820 (0.66); 7.2838 (0.56); 7.2814 (0.50); 7.2642 (0.47); 7.2621 (0.38); 7.2465 (0.61); 7.2407 (0.78); 7.2365 (0.54); 7.1422 (0.46); 7.1374 (0.47); 7.1234 (0.39); 7.1214 (0.41); 7.1170 (0.43); 7.0818 (0.53); 7.0772 (0.54); 7.0659 (0.49); 7.0612 (0.51); 5.3238 (2.45); 3.7901 (6.40); 3.7597 (0.86); 3.3412 (4.16); 3.0542 (5.92); 2.5596 (0.38); 2.5318 (0.39); 2.5182 (9.59); 2.5139 (19.99); 2.5094 (27.16); 2.5050 (19.46); 2.5006 (9.11); 2.4638 (0.36); 2.4592 (0.49); 2.4546 (0.36); 1.4692 (16.00); 1.3642 (2.08)
Example 132, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5084 (1.89); 8.0977 (1.47); 8.0771 (1.73); 7.9534 (0.51); 7.8376 (1.28); 7.8183 (1.78); 7.7981 (1.20); 7.7242 (2.60); 7.7204 (1.26); 7.7115 (0.79); 7.7064 (3.42); 7.7027 (2.37); 7.5651 (0.48); 7.5532 (0.36); 7.5468 (1.63); 7.5411 (0.48); 7.5318 (0.87); 7.5285 (1.41); 7.5251 (0.72); 7.4974 (2.42); 7.4941 (1.04); 7.4820 (1.66); 7.4783 (3.08); 7.4647 (0.48); 7.4606 (1.22); 7.4575 (0.68); 7.1466 (1.79); 7.1289 (1.74); 5.3609 (6.34); 3.3353 (90.78); 3.0575 (16.00); 2.8911 (4.14); 2.7323 (3.28); 2.6169 (0.38); 2.6002 (0.62); 2.5815 (0.65); 2.5645 (0.43); 2.5258 (0.58); 2.5124 (11.50); 2.5079 (22.88); 2.5033 (30.06); 2.4987 (21.84); 2.4942 (10.42); 1.6265 (0.39); 1.6076 (0.56); 1.5929 (0.60); 1.5879 (0.49); 1.5739 (0.72); 1.5543 (0.52); 1.4098 (0.44); 1.3949 (0.61); 1.3914 (0.54); 1.3764 (0.84); 1.3614 (0.42); 1.3579 (0.55); 1.3430 (0.35); 1.0670 (6.48); 1.0500 (6.37); 0.8591 (3.34); 0.8406 (7.10); 0.8221 (2.95); -0.0002 (3.50)
Example 133, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2555 (2.88); 7.9531 (0.76); 7.8280 (0.44); 7.8069 (2.11); 7.7965 (2.37); 7.7915 (4.71); 7.7756 (0.51); 7.7315 (0.33); 7.7259 (2.06); 7.7234 (2.70); 7.7195 (1.31); 7.7107 (0.85); 7.7056 (3.55); 7.7019 (2.45); 7.5632 (0.50); 7.5600 (0.32); 7.5513 (0.38); 7.5448 (1.69); 7.5392 (0.51); 7.5300 (0.91); 7.5266 (1.46); 7.5232 (0.75); 7.4961 (2.48); 7.4928 (1.06); 7.4807 (1.71); 7.4770 (3.17); 7.4634 (0.50); 7.4593 (1.26); 7.4561 (0.71); 7.2626 (0.99); 7.2462 (1.42); 7.2345 (0.83); 7.2249 (1.11); 7.2124 (1.27); 7.1728 (0.56); 7.1672 (0.56); 7.1604 (1.25); 7.1500 (1.89); 7.1427 (0.74); 7.1365 (2.59); 7.1339 (2.60); 7.1288 (1.07); 7.1246 (2.62); 7.1186 (0.97); 7.1123 (1.83); 7.1086 (1.48); 7.1028 (1.38); 7.0936 (1.21); 7.0878 (1.28); 5.3338 (6.42); 4.3817 (0.48); 4.2754 (1.63); 4.2574 (3.43); 4.2394 (1.67); 3.3352 (98.43); 3.0632 (16.00); 3.0034 (0.39); 2.9546 (1.54); 2.9366 (3.11); 2.9187 (1.46); 2.8904 (6.13); 2.7320 (4.83); 2.7312 (4.79); 2.5252 (0.65); 2.5119 (12.06); 2.5074 (23.69); 2.5028 (30.99); 2.4982 (22.39); 2.4937 (10.61); 2.3295 (0.32); 2.3147 (12.20); 2.3068 (1.71); -0.0002 (3.96)
Example 134, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6679 (2.32); 8.1176 (1.76); 8.0970 (2.18); 7.9559 (2.46); 7.9543 (2.55); 7.9518 (2.58); 7.9093 (1.35); 7.8900 (1.98); 7.8698 (1.21); 7.7338 (2.71); 7.7208 (0.88); 7.7158 (3.43); 7.7121 (2.48); 7.6437 (2.27); 7.6348 (2.35); 7.5669 (0.49); 7.5550 (0.38); 7.5486 (1.70); 7.5430 (0.50); 7.5336 (0.94); 7.5304 (1.44); 7.5272 (0.76); 7.5003 (2.49); 7.4846 (1.77); 7.4810 (3.22); 7.4673 (0.52); 7.4633 (1.23); 7.4602 (0.73); 7.2176 (1.98); 7.1991 (1.92); 6.7062 (1.85); 6.7020 (1.84); 6.6974 (1.83); 6.6931 (1.77); 5.4100 (6.80); 3.3312 (65.24); 3.0741 (16.00); 2.8911 (0.91); 2.7321 (0.72); 2.5253 (0.67); 2.5119 (13.07); 2.5076 (25.52); 2.5030 (33.26); 2.4985 (24.41); 2.4941 (11.98); -0.0002 (5.84)
Example 135, Solvent: DMSO, Spectrometer: 400,13 MHz
9.7994 (1.17); 7.9562 (0.46); 7.7879 (0.36); 7.7672 (0.81); 7.7492 (0.90); 7.7326 (1.08); 7.7138 (0.48); 7.6212 (1.23); 7.6039 (1.49); 7.6000 (1.17); 7.4966 (0.72); 7.4822 (0.54); 7.4789 (0.74); 7.4606 (1.25); 7.4417 (1.39); 7.4245 (0.53); 7.4207 (0.36); 7.1002 (0.73); 7.0834 (0.68); 5.2749 (2.71); 2.8902 (2.75); 2.7331 (2.41); 2.5106 (1.90); 2.5063 (2.63); 2.5021 (2.11); 1.4645 (16.00)
Example 136, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7386 (7.06); 7.7194 (7.83); 7.5623 (1.43); 7.5440 (3.55); 7.5268 (3.76); 7.4980 (6.64); 7.4791 (7.19); 7.4584 (3.89); 7.4491 (2.27); 7.4371 (2.93); 7.4295 (3.06); 7.4180 (1.98); 7.4101 (1.94); 7.3781 (9.20); 7.3675 (8.11); 7.3352 (13.24); 7.3215 (2.70); 7.3138 (2.77); 7.2998 (2.34); 7.0484 (0.99); 7.0341 (1.89); 7.0195 (0.95); 6.9628 (1.01); 6.9490 (1.96); 6.9344 (0.99); 6.7934 (1.31); 6.7841 (2.50); 6.7748 (1.34); 6.5917

(2.68); 6.5833 (3.05); 6.5748 (2.80); 6.5661 (2.71); 6.4748 (2.59); 6.4548 (2.97); 6.4406 (2.08); 5.7694 (4.38); 5.2201 (9.46); 5.2111 (8.76); 5.1866 (0.43); 5.1027 (8.78); 5.0127 (9.99); 4.1298 (2.33); 4.1182 (3.52); 4.1069 (2.32); 3.9865 (2.39); 3.9731 (4.39); 3.9595 (2.38); 3.3566 (261.77); 3.0785 (16.00); 3.0673 (14.86); 2.6802 (0.64); 2.5109 (112.20); 2.3375 (0.71); 1.9968 (0.47); 1.2410 (1.10); 1.1970 (0.52); 1.1808 (0.42)
Example 137, Solvent: DMSO, Spectrometer: 399,95 MHz
9.5609 (1.79); 7.9684 (1.41); 7.9489 (1.96); 7.8400 (1.34); 7.8209 (1.73); 7.8005 (1.10); 7.7295 (1.84); 7.7268 (2.44); 7.7229 (1.15); 7.7142 (0.72); 7.7091 (3.30); 7.7053 (2.26); 7.5658 (0.46); 7.5539 (0.33); 7.5475 (1.56); 7.5418 (0.45); 7.5326 (0.83); 7.5292 (1.37); 7.5258 (0.68); 7.4984 (2.27); 7.4950 (0.94); 7.4831 (1.54); 7.4793 (2.95); 7.4658 (0.45); 7.4617 (1.19); 7.4584 (0.65); 7.1598 (1.66); 7.1425 (1.61); 5.3806 (6.19); 3.3343 (88.20); 3.0852 (16.00); 2.8907 (0.83); 2.7320 (0.65); 2.7310 (0.64); 2.5252 (0.49); 2.5204 (0.83); 2.5119 (10.80); 2.5073 (21.58); 2.5027 (28.42); 2.4981 (20.44); 2.4935 (9.57); 1.4156 (10.91); 1.1357 (0.90); 1.1262 (2.74); 1.1193 (2.82); 1.1102 (0.97); 0.6700 (1.20); 0.6606 (3.75); 0.6536 (3.64); 0.6438 (1.02); -0.0002 (4.44)
Example 138, Solvent: DMSO, Spectrometer: 399,95 MHz
9.3214 (4.34); 7.9528 (0.64); 7.8496 (0.82); 7.8288 (1.76); 7.8212 (0.36); 7.8107 (2.04); 7.7894 (1.01); 7.7689 (0.50); 7.7356 (0.75); 7.7272 (3.86); 7.7143 (1.32); 7.7092 (4.15); 7.7061 (3.82); 7.5502 (0.73); 7.5466 (0.64); 7.5390 (1.03); 7.5317 (1.96); 7.5255 (0.93); 7.5214 (0.88); 7.5167 (1.07); 7.5133 (1.47); 7.5101 (0.86); 7.5043 (0.51); 7.4953 (1.42); 7.4917 (0.70); 7.4852 (0.75); 7.4798 (1.52); 7.4753 (3.64); 7.4585 (2.46); 7.4551 (3.67); 7.4412 (0.57); 7.4372 (1.40); 7.4346 (1.10); 7.4021 (0.63); 7.3839 (0.77); 7.3816 (0.78); 7.3634 (0.67); 7.2262 (0.36); 7.1755 (1.67); 7.1702 (0.53); 7.1564 (1.81); 7.1539 (2.14); 7.1411 (0.58); 7.1359 (1.67); 7.1106 (1.67); 7.0906 (1.59); 6.7768 (0.75); 6.7742 (0.60); 6.7586 (3.42); 6.7560 (3.28); 6.7370 (3.18); 6.5114 (0.86); 6.4936 (0.82); 6.3910 (0.88); 6.3707 (0.84); 6.0040 (1.40); 5.3782 (0.80); 5.3568 (5.89); 5.3350 (0.50); 5.1786 (3.26); 3.6697 (0.72); 3.3651 (0.33); 3.3346 (122.05); 3.0915 (2.64); 3.0877 (8.10); 3.0806 (1.02); 3.0724 (16.00); 3.0607 (1.07); 2.9337 (0.41); 2.8904 (5.29); 2.7312 (4.16); 2.6719 (0.33); 2.5251 (0.95); 2.5203 (1.57); 2.5118 (19.46); 2.5073 (38.76); 2.5027 (51.18); 2.4981 (37.17); 2.4936 (17.78); 2.3295 (0.33); 1.2343 (0.35); -0.0002 (6.98)
Example 139, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8766 (0.82); 8.0302 (0.60); 8.0096 (0.74); 7.8519 (0.47); 7.8325 (0.65); 7.8124 (0.41); 7.6227 (0.35); 7.6169 (0.33); 7.6073 (0.42); 7.6020 (0.38); 7.5973 (0.42); 7.5909 (0.79); 7.5877 (0.75); 7.5458 (0.40); 7.5314 (0.42); 7.4130 (0.32); 7.1691 (0.67); 7.1508 (0.63); 5.7692 (0.38); 5.4057 (2.29); 3.3933 (0.38); 3.3440 (19.84); 3.0759 (5.46); 2.5592 (0.39); 2.5321 (0.47); 2.5186 (7.96); 2.5144 (16.08); 2.5099 (21.64); 2.5055 (15.59); 2.5012 (7.37); 2.4607 (0.32); 1.2391 (16.00)
Example 140, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5354 (2.37); 8.0859 (1.40); 8.0651 (1.66); 7.8428 (1.32); 7.8234 (1.94); 7.8033 (1.23); 7.6261 (0.71); 7.6221 (1.05); 7.6166 (0.99); 7.6071 (1.24); 7.6035 (1.11); 7.6015 (1.13); 7.5969 (1.29); 7.5905 (2.43); 7.5876 (2.31); 7.5656 (0.79); 7.5515 (0.87); 7.5455 (1.19); 7.5311 (1.25); 7.5261 (0.64); 7.5105 (0.56); 7.4358 (0.56); 7.4331 (0.62); 7.4296 (0.57); 7.4267 (0.53); 7.4118 (1.00); 7.4082 (0.89); 7.3936 (0.45); 7.3909 (0.47); 7.3875 (0.43); 7.3849 (0.38); 7.1570 (2.00); 7.1388 (1.90); 5.7688 (0.56); 5.3810 (6.74); 3.4004 (0.34); 3.3503 (27.17); 3.0553 (16.00); 2.5186 (7.86); 2.5145 (15.63); 2.5101 (20.87); 2.5057 (15.18); 2.4070 (1.91); 2.3887 (3.50); 2.3701 (2.06); 1.5946 (0.49); 1.5764 (1.45); 1.5577 (2.04); 1.5392 (1.53); 1.5202 (0.60); 1.3689 (0.44); 1.3480 (0.33); 1.3294 (1.18); 1.3105 (1.90); 1.2918 (1.90); 1.2736 (1.13); 1.2555 (0.34); 0.9042 (4.19); 0.8859 (8.38); 0.8675 (3.52)
Example 141, Solvent: DMSO, Spectrometer: 400,13 MHz
8.0012 (0.53); 7.9817 (0.34); 7.4837 (0.42); 7.4665 (0.55); 7.4474 (0.51); 7.4389 (0.48); 7.4274 (0.40); 7.4191 (0.45); 7.3333 (0.33); 7.3321 (0.34); 7.3009 (0.40); 7.2951 (0.47); 7.2910 (0.32); 5.8270 (3.36); 5.4783 (1.27); 3.8397 (3.61); 3.4023 (0.92); 3.1102 (3.32); 2.5841 (0.35); 2.5753 (3.05); 2.5709 (6.29); 2.5664 (8.57); 2.5619 (6.29); 2.5575 (3.16); 1.4626 (0.32); 1.4540 (0.53); 1.4277 (0.56); 1.4127 (16.00)
Example 142, Solvent: DMSO, Spectrometer: 300,16 MHz
9.9207 (1.35); 7.8411 (0.82); 7.8200 (1.98); 7.5956 (1.21); 7.5715 (0.53); 7.5558 (0.46); 7.4284 (1.27); 7.4118 (1.51); 7.1316 (0.58); 7.1251 (0.56); 7.1112 (0.54); 7.1049 (0.54); 5.3722 (2.91); 3.3955 (6.45); 3.1134 (5.84); 2.5655 (25.41); 2.3954 (4.77); 1.5257 (16.00)
Example 143, Solvent: DMSO, Spectrometer: 399,95 MHz
12.8077 (1.19); 8.4458 (1.46); 8.4417 (2.61); 8.4376 (1.47); 8.0836 (0.87); 8.0811 (1.17); 8.0771 (0.91); 8.0641 (0.97); 8.0615 (1.19); 8.0601 (1.17); 8.0574 (0.94); 8.0075 (0.87); 8.0050 (1.09); 8.0012 (0.84); 7.9879 (0.96); 7.9852 (1.13); 7.9841 (1.15); 7.9817 (0.86); 7.9533 (0.35); 7.7500 (1.92); 7.7472 (2.58); 7.7432 (1.25); 7.7349 (0.77); 7.7297 (3.37); 7.7259 (2.36); 7.5685 (0.46); 7.5501 (1.63); 7.5442 (0.49); 7.5355 (0.91); 7.5321 (1.50); 7.5285 (0.75); 7.5078 (2.44); 7.5044 (1.05); 7.4929 (1.53); 7.4889 (3.00); 7.4755 (0.48); 7.4713 (1.23); 7.4677 (0.71); 7.3930 (3.28); 7.3685 (1.40); 7.3489 (2.57); 7.3293 (1.27); 5.3839 (5.38); 3.3336 (58.22); 3.0204 (16.00); 2.8913 (2.75); 2.7326 (2.25); 2.7314 (2.13); 2.5259 (0.59); 2.5210 (0.97); 2.5125 (12.27); 2.5080 (24.58); 2.5034 (32.37); 2.4988 (23.49); 2.4942 (11.18); -0.0002 (6.97)
Example 144, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7760 (2.24); 8.1665 (1.64); 8.1460 (1.99); 7.9514 (3.83); 7.9307 (3.59); 7.9126 (1.28); 7.8932 (1.80); 7.8730 (1.17); 7.7392 (2.03); 7.7368 (2.57); 7.7330 (1.24); 7.7242 (0.77); 7.7190 (3.36); 7.7153 (2.37); 7.5669 (0.47); 7.5551 (0.34); 7.5486 (1.65); 7.5428 (0.48); 7.5336 (0.88); 7.5303 (1.44); 7.5269 (0.72); 7.5005 (2.40); 7.4972 (1.03); 7.4852 (1.63); 7.4814 (3.09); 7.4679 (0.47); 7.4638 (1.22); 7.4605 (0.69); 7.3221 (2.78); 7.3022 (2.64); 7.2180 (1.81); 7.1996 (1.76); 5.4154 (6.26); 3.3274 (26.08); 3.0820 (16.00); 2.8906 (5.83); 2.7320 (4.83); 2.7309 (4.48); 2.5249 (0.62); 2.5200 (0.95); 2.5115 (11.35); 2.5070 (22.54); 2.5024 (29.51); 2.4978 (21.28); 2.4933 (10.05); 2.3820 (9.07); 0.0080 (0.39); -0.0002 (11.73); -0.0085 (0.35)
Example 145, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2168 (2.70); 7.9531 (1.06); 7.8111 (0.84); 7.7903 (1.73); 7.7721 (1.81); 7.7448 (2.06); 7.7213 (3.16); 7.7082 (0.87); 7.7033 (3.55); 7.6995 (2.49); 7.5627 (0.50); 7.5597 (0.33); 7.5508 (0.38); 7.5443 (1.72); 7.5388 (0.52); 7.5294 (0.93); 7.5262 (1.48); 7.5229 (0.77); 7.4952 (2.56); 7.4797 (1.74); 7.4760 (3.26); 7.4624 (0.51); 7.4584 (1.27); 7.4553 (0.73); 7.3365 (0.59); 7.3230 (10.19); 7.3156 (4.69); 7.3091 (4.05); 7.2942

(0.40); 7.2883 (0.61); 7.2473 (0.38); 7.2388 (0.87); 7.2319 (0.95); 7.2251 (1.17); 7.2172 (0.97); 7.2100 (0.63); 7.2031 (0.48); 7.0974 (1.68); 7.0958 (1.71); 7.0795 (1.65); 7.0778 (1.59); 5.3271 (6.50); 4.2373 (0.82); 4.2206 (0.85); 4.2107 (1.50); 4.1939 (1.60); 4.1628 (1.50); 4.1452 (1.50); 4.1363 (0.84); 4.1185 (0.84); 3.3406 (110.56); 3.1332 (0.56); 3.1158 (1.17); 3.0985 (1.16); 3.0811 (0.62); 3.0707 (0.48); 3.0575 (16.00); 2.8906 (8.37); 2.7315 (6.74); 2.5256 (0.61); 2.5123 (11.84); 2.5078 (23.42); 2.5032 (30.78); 2.4987 (22.39); 2.4942 (10.74); 1.2814 (6.61); 1.2638 (6.42); 1.2341 (0.38); -0.0002 (2.62)
Example 146, Solvent: DMSO, Spectrometer: 399,95 MHz
10.3818 (2.06); 8.0962 (1.40); 8.0757 (1.65); 7.9536 (0.91); 7.8276 (1.26); 7.8084 (1.74); 7.7881 (1.21); 7.7257 (2.07); 7.7233 (2.63); 7.7195 (1.31); 7.7105 (0.82); 7.7055 (3.58); 7.7017 (2.45); 7.5629 (0.49); 7.5509 (0.36); 7.5446 (1.67); 7.5389 (0.53); 7.5296 (0.87); 7.5262 (1.43); 7.5228 (0.73); 7.4943 (2.46); 7.4909 (1.05); 7.4789 (1.70); 7.4752 (3.19); 7.4616 (0.51); 7.4575 (1.28); 7.4543 (0.72); 7.1423 (1.77); 7.1247 (1.72); 5.3537 (6.07); 4.0414 (0.85); 4.0236 (0.86); 3.3291 (57.76); 3.0882 (0.54); 3.0529 (16.00); 2.8912 (7.65); 2.7324 (6.12); 2.7314 (5.78); 2.5254 (0.58); 2.5206 (0.91); 2.5121 (11.85); 2.5076 (23.77); 2.5030 (31.40); 2.4984 (22.77); 2.4938 (10.80); 2.1529 (5.48); 2.0176 (1.69); 1.9178 (2.86); 1.6667 (1.21); 1.6366 (2.71); 1.6109 (7.81); 1.6055 (7.95); 1.5610 (2.66); 1.2831 (0.33); 1.2352 (0.33); 1.1917 (0.93); 1.1739 (1.88); 1.1561 (0.91); 0.8758 (0.58); 0.8625 (0.33); -0.0002 (6.70)
Example 147, Solvent: DMSO, Spectrometer: 399,95 MHz
11.9704 (0.36); 10.4304 (2.10); 8.0659 (1.50); 8.0454 (1.81); 7.9529 (0.46); 7.8238 (1.30); 7.8045 (1.86); 7.7843 (1.20); 7.7229 (2.66); 7.7100 (0.84); 7.7050 (3.49); 7.7012 (2.46); 7.5644 (0.48); 7.5526 (0.38); 7.5461 (1.72); 7.5405 (0.50); 7.5312 (0.91); 7.5279 (1.45); 7.5246 (0.77); 7.4971 (2.47); 7.4815 (1.76); 7.4779 (3.20); 7.4642 (0.54); 7.4602 (1.29); 7.4571 (0.72); 7.1333 (1.90); 7.1150 (1.84); 5.3533 (6.54); 3.3413 (110.17); 3.0575 (16.00); 2.8912 (3.64); 2.7322 (2.97); 2.5260 (0.93); 2.5125 (13.33); 2.5081 (25.98); 2.5035 (33.74); 2.4989 (24.85); 2.4945 (12.02); 2.4717 (0.56); 2.1829 (0.57); 2.1739 (0.42); 1.7926 (1.41); 1.7734 (1.25); 1.7574 (1.49); 1.7363 (0.78); 1.7133 (1.18); 1.6766 (0.48); 1.6692 (0.67); 1.6595 (0.74); 1.6472 (1.22); 1.6404 (1.12); 1.5845 (0.37); 1.5584 (0.35); 1.4195 (0.37); 1.3890 (1.02); 1.3595 (1.21); 1.3345 (1.05); 1.2999 (0.93); 1.2800 (1.00); 1.2561 (1.61); 1.2328 (1.38); 1.2257 (1.87); 1.1971 (1.71); 1.1755 (0.81); 1.1456 (0.56)
Example 148, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8673 (1.22); 8.0280 (0.79); 8.0071 (0.99); 7.8490 (0.51); 7.8296 (0.88); 7.8096 (0.45); 7.7332 (1.37); 7.7139 (1.59); 7.5537 (0.67); 7.5359 (0.65); 7.5048 (1.14); 7.4857 (1.46); 7.4668 (0.56); 7.1608 (0.90); 7.1422 (0.87); 5.3883 (3.07); 4.0449 (0.84); 4.0271 (0.85); 3.3422 (15.57); 3.0829 (5.43); 2.5104 (12.92); 1.9970 (3.42); 1.2408 (16.00); 1.2104 (0.39); 1.1994 (0.97); 1.1816 (1.80); 1.1638 (0.91)
Example 149, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1013 (2.94); 7.8300 (0.34); 7.8089 (2.20); 7.8021 (2.37); 7.7952 (5.34); 7.7811 (0.55); 7.4210 (1.01); 7.4010 (2.16); 7.3810 (1.59); 7.2843 (1.41); 7.2829 (1.43); 7.2806 (1.29); 7.2674 (0.81); 7.2635 (1.23); 7.2612 (1.04); 7.2457 (1.56); 7.2398 (1.98); 7.2356 (1.44); 7.1433 (1.06); 7.1413 (1.12); 7.1369 (1.02); 7.1350 (0.99); 7.1227 (0.99); 7.1206 (0.97); 7.1162 (1.03); 7.1144 (0.97); 7.1009 (1.29); 7.0939 (1.29); 7.0872 (1.14); 7.0802 (1.26); 5.7687 (0.43); 5.3307 (5.86); 4.9258 (0.42); 4.9130 (0.56); 4.9102 (0.56); 4.9042 (0.55); 4.8976 (0.57); 4.8916 (0.58); 4.8890 (0.58); 4.8762 (0.46); 3.7889 (16.00); 3.7665 (0.33); 3.3998 (0.86); 3.3496 (73.70); 3.3263 (1.03); 3.2994 (0.68); 3.0617 (14.72); 2.5189 (7.09); 2.5145 (14.73); 2.5100 (20.22); 2.5055 (14.96); 2.5011 (7.60); 2.4646 (0.38); 2.4604 (0.36); 1.6952 (0.45); 1.6763 (0.57); 1.6596 (0.56); 1.6432 (0.36); 1.5914 (0.50); 1.5767 (0.41); 1.5700 (0.53); 1.5569 (0.83); 1.5424 (0.58); 1.5357 (0.68); 1.5210 (0.53); 1.3563 (0.60); 1.3439 (0.67); 1.3361 (0.58); 1.3229 (0.90); 1.3096 (0.50); 1.3017 (0.50); 1.2893 (0.45); 1.2349 (6.21); 1.2193 (6.25); 0.9022 (8.57); 0.9003 (8.65); 0.8857 (8.73); 0.8840 (8.67)
Example 150, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7624 (1.72); 7.6204 (1.22); 7.6135 (1.44); 7.6094 (1.46); 7.5993 (1.11); 7.5894 (3.38); 7.5669 (0.91); 7.5528 (0.99); 7.5467 (1.29); 7.5324 (1.29); 7.5277 (0.82); 7.5116 (0.57); 7.4290 (0.71); 7.4263 (0.71); 7.4230 (0.65); 7.4201 (0.60); 7.4055 (1.11); 7.4010 (0.99); 7.3868 (0.51); 7.3834 (0.54); 7.3781 (0.42); 7.2771 (4.69); 5.3063 (6.66); 4.1630 (2.10); 4.1463 (4.45); 4.1296 (2.18); 3.8448 (0.41); 3.4517 (0.41); 3.4024 (4.01); 3.3520 (239.49); 3.3008 (3.74); 3.0281 (16.00); 2.5629 (0.48); 2.5584 (0.73); 2.5541 (0.67); 2.5165 (16.72); 2.5125 (32.52); 2.5081 (43.23); 2.5037 (32.17); 2.4663 (0.80); 2.4614 (0.88); 2.4568 (1.02); 2.4523 (0.93); 1.9939 (0.36); 1.6609 (0.34); 1.6434 (1.15); 1.6262 (1.84); 1.6090 (1.32); 1.5917 (0.48); 1.3403 (1.18); 1.3309 (2.37); 1.3225 (4.01); 1.3132 (4.03); 1.3043 (2.69); 1.2956 (1.44); 1.2706 (0.71); 1.2614 (0.79); 1.2477 (1.74); 0.8969 (2.16); 0.8795 (6.51); 0.8618 (3.91); 0.8443 (1.16)
Example 151, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2568 (1.94); 8.1284 (0.84); 8.1089 (1.79); 8.0894 (1.18); 7.9532 (1.46); 7.9072 (1.50); 7.8877 (1.31); 7.8226 (0.43); 7.8016 (1.32); 7.7844 (2.46); 7.7789 (1.82); 7.7618 (0.63); 7.7224 (2.04); 7.7045 (2.68); 7.7009 (1.95); 7.6827 (2.12); 7.6646 (2.48); 7.6613 (1.94); 7.6533 (0.41); 7.5888 (1.38); 7.5700 (1.41); 7.5630 (0.54); 7.5598 (0.47); 7.5498 (0.81); 7.5448 (1.43); 7.5386 (0.70); 7.5305 (1.83); 7.5265 (1.57); 7.5126 (1.12); 7.4958 (2.01); 7.4801 (1.54); 7.4765 (2.51); 7.4631 (0.72); 7.4589 (1.15); 7.4558 (0.79); 7.4437 (1.80); 7.4240 (2.38); 7.4096 (0.72); 7.4055 (1.15); 7.2472 (0.39); 7.2327 (1.41); 7.2243 (8.72); 7.2226 (8.67); 7.2072 (16.00); 7.1951 (2.36); 7.1928 (2.31); 7.1048 (1.03); 7.1010 (1.04); 7.0882 (1.09); 7.0844 (1.03); 6.8776 (2.47); 6.8743 (2.20); 6.8584 (1.24); 6.8007 (0.73); 6.7966 (0.75); 6.7921 (0.63); 6.7797 (0.80); 6.7734 (0.69); 5.5347 (4.39); 5.5234 (0.68); 5.3310 (4.64); 5.3194 (0.69); 4.3017 (1.16); 4.2846 (2.66); 4.2675 (1.36); 3.7328 (12.41); 3.7208 (1.23); 3.3357 (173.12); 3.3243 (22.80); 3.0879 (0.74); 3.0615 (11.06); 3.0496 (1.42); 3.0363 (11.02); 3.0244 (1.26); 2.9232 (1.11); 2.9060 (2.41); 2.8905 (11.62); 2.8787 (1.31); 2.7311 (8.84); 2.7192 (0.91); 2.6720 (0.39); 2.5117 (24.10); 2.5074 (45.12); 2.5028 (58.63); 2.4983 (44.65); 2.4939 (25.55); 2.3297 (0.36); 1.2353 (0.39); -0.0002 (3.12)
Example 152, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8500 (1.17); 7.7865 (0.75); 7.7690 (0.88); 7.7565 (1.08); 7.7379 (0.50); 7.7277 (1.20); 7.7097 (1.42); 7.7060 (1.09); 7.5572 (0.69); 7.5392 (0.62); 7.5115 (1.08); 7.4923 (1.32); 7.4742 (0.63); 7.4723 (0.63); 7.4608 (0.39); 7.4494 (0.48); 7.4380 (0.45); 7.3483 (0.41); 7.3268 (0.57); 7.0734 (0.64); 7.0712 (0.66); 7.0562 (0.63); 7.0539 (0.62); 5.3333 (2.74); 3.5265 (0.35); 3.5084 (1.15); 3.4902 (1.19); 3.4722 (0.39); 3.3453 (22.18); 3.3219 (0.40); 2.5150 (8.47); 2.5107 (11.39); 2.5064 (8.66); 1.9976 (0.71); 1.4671 (16.00); 1.1820 (0.37); 1.0658 (1.28); 1.0478 (2.81);

1.0296 (1.29)
Example 153, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6140 (0.42); 10.5013 (1.85); 8.1623 (0.34); 8.1414 (0.40); 8.0435 (1.35); 8.0227 (1.52); 7.9531 (0.49); 7.8376 (1.51); 7.8182 (1.83); 7.7983 (1.11); 7.7252 (2.66); 7.7230 (2.94); 7.7050 (3.90); 7.7013 (2.48); 7.5680 (0.33); 7.5651 (0.59); 7.5620 (0.39); 7.5532 (0.44); 7.5467 (2.08); 7.5411 (0.61); 7.5318 (1.09); 7.5285 (1.74); 7.5252 (0.89); 7.4979 (3.00); 7.4821 (2.09); 7.4786 (3.83); 7.4649 (0.59); 7.4609 (1.45); 7.4578 (0.82); 7.1591 (0.46); 7.1479 (1.80); 7.1299 (1.69); 5.3662 (1.69); 5.3578 (6.59); 5.3316 (0.36); 5.3282 (0.46); 5.3247 (0.42); 5.3136 (0.72); 5.3102 (0.90); 5.3067 (0.70); 5.2956 (0.39); 5.2922 (0.44); 5.2889 (0.33); 3.3428 (149.21); 3.1358 (1.85); 3.1178 (1.81); 3.0690 (0.34); 3.0561 (16.00); 2.8912 (3.85); 2.7321 (3.12); 2.5357 (0.39); 2.5258 (0.83); 2.5126 (14.94); 2.5081 (29.45); 2.5036 (38.64); 2.4990 (28.03); 2.4945 (13.33); 1.7118 (0.83); 1.6998 (6.01); 1.6979 (5.93); 1.6335 (6.78); 1.5716 (0.89); 1.2939 (1.08); 1.0457 (2.97); 1.0288 (2.90); -0.0002 (4.84)
Example 154, Solvent: DMSO, Spectrometer: 400,13 MHz
11.8962 (1.28); 7.7434 (1.36); 7.7246 (1.52); 7.5551 (0.66); 7.5374 (0.68); 7.5120 (1.16); 7.4928 (1.43); 7.4746 (0.54); 7.2893 (1.70); 5.3425 (2.96); 3.3434 (23.50); 3.0088 (5.43); 2.5109 (19.23); 1.2319 (16.00)
Example 155, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5650 (1.08); 7.9538 (0.99); 7.7368 (2.77); 7.7329 (1.34); 7.7241 (0.85); 7.7191 (3.52); 7.7153 (2.44); 7.5658 (0.49); 7.5543 (0.36); 7.5474 (1.71); 7.5416 (0.51); 7.5327 (0.96); 7.5293 (1.53); 7.5259 (0.77); 7.5029 (2.58); 7.4995 (1.11); 7.4877 (1.71); 7.4838 (3.20); 7.4703 (0.51); 7.4663 (1.26); 7.4628 (0.74); 7.3463 (4.44); 7.2683 (0.96); 7.2485 (2.03); 7.2276 (1.27); 7.1611 (1.14); 7.1564 (3.43); 7.1530 (4.31); 7.1368 (1.05); 7.1349 (1.09); 7.1327 (0.87); 6.9486 (1.01); 6.9440 (1.17); 6.9403 (0.95); 6.9276 (0.96); 6.9258 (0.97); 6.9215 (0.97); 6.9197 (0.88); 5.3438 (5.92); 5.1215 (0.40); 5.1050 (1.46); 5.0885 (1.47); 5.0721 (0.39); 3.3355 (43.51); 3.0149 (16.00); 2.8911 (7.80); 2.7329 (6.23); 2.7319 (6.31); 2.5263 (0.48); 2.5130 (8.25); 2.5085 (16.33); 2.5039 (21.44); 2.4993 (15.57); 2.4948 (7.44); 1.5457 (5.67); 1.5292 (5.62); -0.0002 (3.37)
Example 156, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2194 (2.13); 8.0945 (1.45); 8.0744 (1.77); 7.8905 (1.26); 7.8711 (1.77); 7.8510 (1.13); 7.7273 (1.91); 7.7246 (2.59); 7.7208 (1.24); 7.7119 (0.80); 7.7069 (3.44); 7.7031 (2.36); 7.5659 (0.49); 7.5539 (0.37); 7.5476 (1.62); 7.5419 (0.48); 7.5326 (0.86); 7.5293 (1.41); 7.5259 (0.72); 7.4971 (2.37); 7.4936 (1.01); 7.4816 (1.63); 7.4779 (3.06); 7.4643 (0.48); 7.4602 (1.23); 7.4571 (0.70); 7.3823 (0.60); 7.3674 (7.84); 7.3618 (3.51); 7.3530 (2.93); 7.3513 (3.54); 7.3458 (0.67); 7.3369 (0.52); 7.3336 (0.70); 7.3314 (0.82); 7.3117 (0.67); 7.3058 (0.87); 7.2985 (0.72); 7.2899 (0.82); 7.2803 (0.38); 7.2750 (0.33); 7.2003 (1.75); 7.1828 (1.68); 5.3733 (6.02); 4.5879 (1.41); 4.5586 (2.66); 4.4973 (2.65); 4.4680 (1.48); 4.2677 (0.40); 4.2512 (1.53); 4.2345 (1.55); 4.2179 (0.42); 3.3374 (102.65); 3.0625 (16.00); 2.8906 (1.22); 2.7321 (0.92); 2.7311 (0.96); 2.5255 (0.57); 2.5208 (0.91); 2.5122 (11.80); 2.5077 (23.81); 2.5031 (31.59); 2.4984 (23.00); 2.4939 (11.00); 1.3643 (5.95); 1.3476 (5.91); -0.0002 (1.54)
Example 157, Solvent: DMSO, Spectrometer: 400,13 MHz
7.8410 (0.48); 7.8218 (0.77); 7.8019 (0.57); 7.6923 (0.55); 7.6851 (3.99); 7.6802 (1.34); 7.6677 (1.45); 7.6628 (4.40); 7.6554 (0.54); 7.0545 (0.53); 7.0471 (4.16); 7.0422 (1.32); 7.0296 (1.29); 7.0248 (3.89); 7.0172 (0.46); 6.8597 (1.73); 6.8415 (1.42); 5.2972 (5.30); 3.8208 (16.00); 3.7716 (0.47); 3.6367 (0.75); 3.6188 (0.71); 3.0550 (0.56); 3.0434 (15.06); 2.5183 (7.32); 2.5142 (15.39); 2.5098 (21.16); 2.5054 (15.45); 1.2602 (0.34); 1.2444 (0.39)
Example 158, Solvent: DMSO, Spectrometer: 399,95 MHz
12.6738 (2.31); 7.9545 (3.14); 7.9353 (1.86); 7.7430 (1.97); 7.7404 (2.69); 7.7364 (1.29); 7.7279 (0.80); 7.7227 (3.49); 7.7189 (2.40); 7.5644 (0.47); 7.5530 (0.35); 7.5460 (1.68); 7.5401 (0.54); 7.5312 (1.33); 7.5280 (1.73); 7.5244 (1.06); 7.5183 (3.77); 7.5115 (2.42); 7.5029 (4.15); 7.4879 (1.66); 7.4839 (3.45); 7.4706 (0.52); 7.4664 (1.26); 7.4628 (0.71); 7.3942 (3.61); 7.2815 (0.90); 7.2743 (0.90); 7.2661 (0.77); 7.2617 (0.93); 7.2588 (0.88); 7.2548 (0.88); 7.2459 (0.73); 7.2389 (0.73); 5.3636 (5.71); 3.3280 (66.85); 3.0512 (16.00); 2.8901 (13.73); 2.7310 (10.63); 2.7305 (10.71); 2.5242 (0.78); 2.5193 (1.22); 2.5108 (14.68); 2.5063 (29.26); 2.5017 (38.58); 2.4971 (27.93); 2.4926 (13.22); 0.0079 (0.34); -0.0002 (9.89)
Example 159, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4204 (0.90); 7.7407 (3.17); 7.7229 (3.69); 7.7193 (2.84); 7.6158 (1.59); 7.6119 (1.72); 7.5961 (1.73); 7.5922 (1.77); 7.5674 (0.52); 7.5559 (0.38); 7.5488 (1.87); 7.5434 (0.59); 7.5311 (1.65); 7.5058 (2.97); 7.4864 (3.56); 7.4691 (1.29); 7.4660 (0.85); 7.3402 (5.55); 7.3197 (1.49); 7.3023 (0.98); 7.2985 (0.96); 7.0249 (1.83); 7.0066 (1.50); 7.0041 (1.59); 6.9432 (0.97); 6.9403 (1.00); 6.9238 (1.69); 6.9214 (1.65); 6.9051 (0.86); 6.9021 (0.84); 5.3429 (6.98); 4.9715 (7.89); 3.3432 (128.35); 3.0349 (16.00); 3.0233 (1.12); 2.5075 (28.50); 2.5030 (37.51); 2.4986 (28.09); 2.4944 (14.15); 2.2229 (0.46); -0.0002 (1.60)
Example 160, Solvent: DMSO, Spectrometer: 399,95 MHz
11.8369 (1.56); 7.7378 (1.60); 7.7349 (2.16); 7.7309 (1.01); 7.7226 (0.64); 7.7173 (2.88); 7.7136 (1.93); 7.5647 (0.40); 7.5465 (1.37); 7.5405 (0.40); 7.5317 (0.76); 7.5283 (1.26); 7.5247 (0.61); 7.5019 (2.03); 7.4985 (0.83); 7.4870 (1.30); 7.4830 (2.50); 7.4696 (0.39); 7.4655 (1.03); 7.4619 (0.54); 7.2695 (3.52); 5.3364 (4.71); 3.3293 (35.22); 2.9884 (13.82); 2.8909 (1.97); 2.7324 (1.59); 2.7311 (1.56); 2.5253 (0.45); 2.5206 (0.70); 2.5120 (9.18); 2.5074 (18.49); 2.5028 (24.47); 2.4981 (17.64); 2.4936 (8.27); 1.6349 (0.85); 1.6150 (0.75); 1.6052 (0.61); 1.5935 (1.00); 1.2519 (0.49); 1.2336 (1.26); 1.2150 (1.41); 1.1966 (1.13); 1.1830 (16.00); 1.1212 (0.34); 1.1095 (0.42); 1.1017 (0.70); 1.0936 (0.58); 1.0831 (0.72); 1.0742 (0.56); 1.0664 (0.41); 1.0608 (0.46); 0.8419 (2.99); 0.8239 (6.18); 0.8055 (2.43); -0.0002 (8.03)
Example 161, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.9406 (2.10); 7.9128 (2.66); 7.7328 (1.48); 7.7061 (2.57); 7.6756 (2.97); 7.6512 (2.98); 7.6464 (3.09); 7.6288 (2.56); 7.3615 (2.79); 7.2652 (6.26); 7.1386 (2.32); 7.1116 (4.45); 7.0842 (2.21); 7.0246 (2.66); 7.0000 (2.47); 5.2881 (10.14); 4.2019 (2.57); 4.1799 (5.23); 4.1577 (2.69); 3.1032 (16.00); 2.0111 (5.35); 1.7072 (1.74); 1.6858 (2.72); 1.6644 (2.07); 1.6327 (10.56); 1.3657 (5.67); 1.3562 (5.80); 1.2538 (0.45); 0.9358 (2.93); 0.9175 (6.36); -0.0002 (2.29)

Example 162, Solvent: DMSO, Spectrometer: 400,13 MHz
10.7979 (1.40); 7.8362 (1.62); 7.8338 (1.77); 7.8180 (1.00); 7.7270 (1.29); 7.7141 (0.41); 7.7092 (1.65); 7.7055 (1.18); 7.5504 (0.79); 7.5354 (0.43); 7.5322 (0.68); 7.5289 (0.37); 7.5008 (1.19); 7.4853 (0.83); 7.4816 (1.51); 7.4639 (0.65); 7.4608 (0.41); 7.1546 (0.64); 7.1497 (0.61); 7.1387 (0.63); 7.1338 (0.62); 5.7666 (2.26); 5.3476 (3.10); 3.3401 (13.01); 3.0584 (7.68); 2.5301 (0.33); 2.5165 (7.09); 2.5122 (14.63); 2.5077 (19.78); 2.5032 (14.18); 2.4989 (6.70); 2.4701 (0.32); 1.4799 (16.00); 1.4489 (0.54)
Example 163, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7383 (2.71); 7.7257 (0.99); 7.7206 (3.40); 7.7168 (2.51); 7.5614 (0.51); 7.5582 (0.38); 7.5499 (0.42); 7.5431 (1.67); 7.5373 (0.61); 7.5283 (1.02); 7.5250 (1.54); 7.5216 (0.88); 7.4989 (2.58); 7.4836 (1.78); 7.4798 (3.19); 7.4664 (0.64); 7.4623 (1.28); 7.4589 (0.81); 7.3854 (1.22); 7.3673 (1.53); 7.3646 (1.53); 7.3466 (1.35); 6.5468 (0.66); 6.5332 (1.27); 6.5195 (0.71); 6.4895 (1.95); 6.4719 (1.90); 6.4059 (1.90); 6.3852 (1.87); 5.7595 (1.92); 5.2000 (6.69); 3.3207 (26.40); 3.2065 (0.92); 3.1892 (1.85); 3.1747 (1.86); 3.1575 (0.98); 3.0772 (16.00); 3.0516 (0.47); 2.5157 (7.56); 2.5113 (14.94); 2.5068 (20.08); 2.5023 (14.74); 2.4980 (7.57); 1.5122 (0.93); 1.4943 (1.51); 1.4769 (1.25); 1.4582 (0.55); 1.3430 (0.33); 1.3252 (0.87); 1.3042 (1.36); 1.2973 (1.36); 1.2867 (1.80); 1.2827 (1.83); 1.2711 (2.95); 1.2650 (4.03); 1.2586 (2.86); 0.8750 (1.85); 0.8582 (5.67); 0.8408 (2.18)
Example 164, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4389 (1.06); 7.9528 (1.21); 7.7388 (2.70); 7.7348 (1.29); 7.7262 (0.79); 7.7211 (3.47); 7.7172 (2.40); 7.5668 (0.48); 7.5554 (0.35); 7.5484 (1.69); 7.5425 (0.50); 7.5337 (0.93); 7.5303 (1.51); 7.5269 (0.76); 7.5047 (2.54); 7.5014 (1.08); 7.4896 (1.62); 7.4857 (3.14); 7.4723 (0.48); 7.4681 (1.23); 7.4646 (0.68); 7.3645 (0.37); 7.3555 (4.27); 7.3499 (1.34); 7.3384 (5.86); 7.3329 (4.92); 7.3240 (0.44); 7.0133 (0.44); 7.0044 (4.67); 6.9987 (1.31); 6.9874 (1.24); 6.9818 (4.12); 6.9728 (0.33); 5.3422 (5.94); 4.8586 (7.30); 3.3327 (63.87); 3.0226 (16.00); 2.8904 (9.87); 2.7317 (7.82); 2.7309 (7.72); 2.5249 (0.72); 2.5201 (1.13); 2.5116 (13.74); 2.5071 (27.47); 2.5025 (36.24); 2.4979 (26.26); 2.4934 (12.45); -0.0002 (3.18)
Example 165, Solvent: DMSO, Spectrometer: 399,95 MHz
8.2664 (2.30); 8.0307 (1.57); 8.0107 (1.97); 7.9530 (0.67); 7.8574 (1.31); 7.8380 (1.80); 7.8179 (1.14); 7.6823 (2.54); 7.6785 (1.23); 7.6696 (0.77); 7.6645 (3.45); 7.6608 (2.39); 7.5610 (0.50); 7.5488 (0.38); 7.5426 (1.63); 7.5371 (0.50); 7.5247 (2.61); 7.5214 (2.96); 7.5165 (0.73); 7.5043 (3.21); 7.5015 (2.76); 7.4945 (0.67); 7.4889 (2.41); 7.4854 (1.00); 7.4732 (1.70); 7.4696 (3.11); 7.4518 (2.07); 7.4501 (2.19); 7.4324 (3.32); 7.4284 (1.43); 7.4170 (0.90); 7.4135 (1.79); 7.3907 (0.78); 7.3871 (1.42); 7.3836 (0.77); 7.3753 (0.51); 7.3690 (1.60); 7.3624 (0.32); 7.3510 (0.47); 7.1435 (1.78); 7.1257 (1.70); 5.2672 (6.28); 3.3380 (136.98); 2.9697 (16.00); 2.8908 (5.49); 2.7313 (4.41); 2.5256 (0.64); 2.5208 (1.02); 2.5122 (13.67); 2.5077 (27.43); 2.5031 (36.24); 2.4985 (26.25); 2.4940 (12.46); 1.5356 (1.14); 1.5253 (3.03); 1.5180 (3.27); 1.5084 (1.26); 1.1924 (1.32); 1.1826 (3.22); 1.1753 (3.11); 1.1648 (1.11); -0.0002 (4.98)
Example 166, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5501 (2.03); 8.0599 (1.22); 8.0393 (1.45); 7.9534 (0.44); 7.8305 (1.29); 7.8112 (1.76); 7.7910 (1.16); 7.7266 (2.05); 7.7241 (2.63); 7.7202 (1.31); 7.7114 (0.89); 7.7063 (3.47); 7.7025 (2.39); 7.5647 (0.49); 7.5615 (0.32); 7.5528 (0.38); 7.5464 (1.65); 7.5407 (0.50); 7.5315 (0.93); 7.5281 (1.43); 7.5247 (0.74); 7.4971 (2.42); 7.4938 (1.06); 7.4817 (1.73); 7.4780 (3.09); 7.4644 (0.51); 7.4603 (1.25); 7.4571 (0.72); 7.1395 (1.79); 7.1220 (1.72); 5.3563 (6.32); 3.3289 (56.12); 3.0729 (0.34); 3.0531 (16.00); 2.8908 (3.54); 2.7321 (2.78); 2.7311 (2.79); 2.5252 (0.66); 2.5119 (11.40); 2.5074 (22.31); 2.5028 (29.21); 2.4982 (21.28); 2.4937 (10.21); 2.4667 (1.73); 2.4507 (1.38); 2.4472 (1.93); 2.4426 (1.27); 2.4273 (1.81); 1.5443 (1.77); 1.5289 (1.28); 1.5243 (1.88); 1.5049 (1.63); 1.0161 (12.01); 0.3017 (0.81); 0.2870 (3.12); 0.2784 (1.31); 0.2105 (1.59); 0.2019 (3.43); 0.1979 (2.76); 0.1869 (0.94); -0.0002 (7.31)
Example 167, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5191 (2.06); 8.0722 (1.29); 8.0515 (1.54); 7.8334 (1.30); 7.8141 (1.82); 7.7938 (1.19); 7.7237 (2.64); 7.7199 (1.26); 7.7110 (0.85); 7.7059 (3.48); 7.7022 (2.41); 7.5646 (0.49); 7.5527 (0.37); 7.5463 (1.67); 7.5406 (0.49); 7.5313 (0.92); 7.5280 (1.44); 7.5246 (0.73); 7.4970 (2.44); 7.4936 (1.04); 7.4815 (1.70); 7.4778 (3.15); 7.4643 (0.50); 7.4602 (1.25); 7.4570 (0.73); 7.1424 (1.83); 7.1241 (1.78); 5.8288 (0.61); 5.8200 (0.32); 5.8032 (0.93); 5.7861 (0.96); 5.7771 (0.36); 5.7693 (0.36); 5.7605 (0.72); 5.7438 (0.35); 5.3547 (6.44); 5.0386 (0.46); 5.0347 (1.07); 5.0294 (1.17); 5.0255 (0.52); 4.9957 (0.42); 4.9918 (0.97); 4.9865 (1.05); 4.9825 (0.47); 4.9614 (0.58); 4.9587 (1.12); 4.9559 (0.99); 4.9533 (0.96); 4.9504 (0.47); 4.9360 (0.56); 4.9332 (1.06); 4.9305 (0.94); 4.9278 (0.90); 4.9249 (0.44); 3.3316 (55.34); 3.0536 (16.00); 2.5255 (0.49); 2.5122 (10.21); 2.5077 (20.28); 2.5031 (26.66); 2.4985 (19.39); 2.4940 (9.34); 2.4075 (1.65); 2.3892 (3.19); 2.3707 (1.80); 2.0637 (0.63); 2.0459 (1.61); 2.0278 (1.67); 2.0101 (0.71); 1.6166 (0.38); 1.5984 (1.10); 1.5796 (1.50); 1.5606 (1.21); 1.5416 (0.52); 1.4055 (0.53); 1.3860 (1.32); 1.3740 (0.71); 1.3678 (1.66); 1.3485 (1.02); 1.3303 (0.34); -0.0002 (6.33)
Example 168, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3988 (3.23); 7.8325 (2.66); 7.8280 (2.70); 7.8199 (5.62); 7.8070 (0.37); 7.7283 (2.85); 7.7104 (3.50); 7.7067 (2.57); 7.5678 (0.49); 7.5556 (0.39); 7.5494 (1.74); 7.5440 (0.55); 7.5343 (0.95); 7.5313 (1.46); 7.5001 (2.59); 7.4808 (3.30); 7.4670 (0.58); 7.4631 (1.27); 7.4434 (0.94); 7.4387 (1.38); 7.4221 (3.80); 7.4186 (3.57); 7.4155 (3.08); 7.4131 (3.06); 7.4077 (0.72); 7.3956 (3.66); 7.3913 (1.23); 7.3766 (1.50); 7.3598 (0.81); 7.3554 (1.28); 7.3507 (0.64); 7.3455 (0.54); 7.3383 (1.27); 7.3213 (0.41); 7.1244 (1.33); 7.1162 (1.38); 7.1119 (1.20); 7.1036 (1.28); 5.3428 (7.01); 5.1856 (7.82); 3.4027 (0.64); 3.4003 (0.81); 3.3515 (109.79); 3.3027 (0.64); 3.2998 (0.47); 3.0703 (16.00); 2.5586 (0.43); 2.5319 (0.81); 2.5182 (17.55); 2.5141 (35.67); 2.5097 (48.03); 2.5054 (34.89); 2.4613 (0.41); 2.4576 (0.36); 1.9966 (0.63); 1.2515 (0.57); 1.1808 (0.33); 0.8643 (0.76)
Example 169, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1300 (1.69); 7.6226 (3.42); 7.6020 (3.93); 7.3078 (3.21); 7.2876 (2.83); 7.2488 (4.77); 5.2968 (6.30); 3.4115 (4.99); 3.3986 (0.39); 3.3615 (311.04); 3.3119 (1.57); 3.2615 (0.34); 2.9987 (16.00); 2.5622 (0.56); 2.5577 (0.71); 2.5533 (0.52); 2.5301 (0.86); 2.5164 (17.19); 2.5122 (34.56); 2.5078 (46.09); 2.5033 (33.23); 2.4992 (15.91); 2.4585 (0.33); 2.4287 (2.01); 2.4104 (3.66); 2.3916 (2.19); 2.3530 (9.91); 2.3347 (0.47); 2.3301 (0.34); 1.9936 (0.47); 1.6039 (0.49); 1.5856 (1.45); 1.5669 (2.00); 1.5483 (1.52); 1.5294 (0.60); 1.3376 (0.32); 1.3191 (1.18); 1.3002

(1.99); 1.2815 (2.12); 1.2632 (1.48); 1.2453 (1.39); 0.8946 (4.19); 0.8763 (8.85); 0.8609 (2.45); 0.8580 (3.91); 0.8438 (0.71)
Example 170, Solvent: DMSO, Spectrometer: 399,95 MHz
9.8542 (2.06); 8.0824 (1.56); 8.0624 (1.96); 7.9536 (0.38); 7.9015 (1.29); 7.8821 (1.84); 7.8620 (1.14); 7.7978 (2.41); 7.7937 (2.42); 7.7383 (1.95); 7.7359 (2.53); 7.7320 (1.25); 7.7232 (0.83); 7.7181 (3.37); 7.7143 (2.36); 7.5659 (0.48); 7.5541 (0.36); 7.5476 (1.64); 7.5418 (0.50); 7.5327 (0.90); 7.5293 (1.44); 7.5259 (0.75); 7.4993 (2.41); 7.4959 (1.08); 7.4840 (1.62); 7.4801 (3.09); 7.4666 (0.49); 7.4625 (1.23); 7.4592 (0.70); 7.2092 (1.76); 7.1914 (1.71); 6.6034 (2.47); 6.5995 (2.48); 5.3974 (6.35); 3.3312 (63.44); 3.0917 (16.00); 2.8911 (3.05); 2.7324 (2.43); 2.7314 (2.38); 2.5254 (0.60); 2.5206 (0.94); 2.5121 (11.56); 2.5076 (23.08); 2.5030 (30.37); 2.4984 (22.06); 2.4939 (10.54); 2.3490 (12.91); 2.2917 (0.43); 1.2864 (0.50); 0.8757 (0.49); -0.0002 (7.45)
Example 171, Solvent: DMSO, Spectrometer: 399,95 MHz
12.3285 (0.78); 7.9532 (0.64); 7.7436 (1.99); 7.7411 (2.68); 7.7371 (1.32); 7.7286 (0.79); 7.7235 (3.42); 7.7196 (2.40); 7.5665 (0.48); 7.5551 (0.34); 7.5481 (1.69); 7.5422 (0.50); 7.5335 (0.93); 7.5301 (1.53); 7.5266 (0.77); 7.5049 (2.55); 7.5016 (1.09); 7.4898 (1.60); 7.4858 (3.10); 7.4725 (0.48); 7.4683 (1.22); 7.4648 (0.68); 7.3320 (4.62); 7.0182 (0.93); 7.0143 (1.00); 6.9981 (1.90); 6.9943 (1.82); 6.9657 (0.88); 6.9613 (0.98); 6.9480 (1.19); 6.9437 (1.46); 6.9264 (1.19); 6.9235 (1.48); 6.9061 (2.27); 6.9019 (1.50); 6.8777 (1.37); 6.8737 (1.33); 6.8599 (1.04); 6.8564 (1.15); 6.8537 (0.76); 6.8399 (0.48); 6.8359 (0.48); 5.3424 (5.87); 4.8205 (7.49); 3.7826 (16.00); 3.3351 (33.96); 3.0278 (15.32); 3.0143 (0.35); 2.8899 (5.11); 2.7319 (4.05); 2.7310 (4.09); 2.5253 (0.33); 2.5205 (0.52); 2.5120 (6.64); 2.5075 (13.33); 2.5029 (17.62); 2.4983 (12.81); 2.4938 (6.12); -0.0002 (3.49)
Example 172, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5339 (4.60); 8.1018 (3.12); 8.0812 (3.70); 7.8447 (2.73); 7.8254 (3.85); 7.8052 (2.65); 7.7302 (5.81); 7.7175 (2.02); 7.7124 (7.41); 7.7087 (5.49); 7.6920 (0.36); 7.5781 (1.04); 7.5750 (0.78); 7.5664 (0.88); 7.5597 (3.57); 7.5541 (1.30); 7.5449 (2.12); 7.5416 (3.23); 7.5383 (1.88); 7.5128 (5.44); 7.4974 (3.73); 7.4937 (6.78); 7.4802 (1.29); 7.4761 (2.70); 7.4729 (1.68); 7.1465 (3.95); 7.1288 (3.77); 5.3725 (13.34); 5.3456 (0.42); 3.5039 (1.80); 3.4858 (5.88); 3.4676 (6.08); 3.4494 (1.97); 3.3912 (0.65); 3.3409 (43.04); 3.2907 (0.61); 2.7173 (0.66); 2.6973 (1.20); 2.6836 (1.59); 2.6798 (1.72); 2.6665 (0.88); 2.5696 (0.40); 2.5652 (0.88); 2.5608 (1.23); 2.5562 (0.91); 2.5516 (0.50); 2.5328 (1.90); 2.5193 (33.14); 2.5150 (69.27); 2.5105 (95.86); 2.5060 (71.93); 2.5016 (37.19); 2.4697 (1.83); 2.4650 (1.90); 2.4605 (1.93); 2.4559 (1.48); 2.3420 (0.50); 2.3374 (0.65); 2.3329 (0.49); 1.6154 (0.48); 1.6040 (0.62); 1.5956 (1.03); 1.5916 (0.90); 1.5815 (1.09); 1.5751 (1.27); 1.5699 (0.96); 1.5603 (1.26); 1.5394 (0.55); 1.3744 (0.48); 1.3451 (0.43); 1.3314 (0.93); 1.3193 (1.27); 1.3133 (0.94); 1.3063 (1.87); 1.2930 (2.04); 1.2870 (2.27); 1.2724 (3.51); 1.2619 (2.10); 1.2537 (3.00); 1.2384 (3.01); 1.2255 (1.23); 1.2207 (1.30); 1.2136 (0.94); 1.1807 (0.33); 1.1033 (0.37); 1.0903 (0.42); 1.0700 (13.27); 1.0582 (9.12); 1.0530 (15.18); 1.0403 (16.00); 1.0220 (7.07); 0.9902 (0.47); 0.8832 (6.32); 0.8653 (12.63); 0.8474 (5.25); 0.8151 (0.38)
Example 173, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4268 (0.85); 8.0973 (0.65); 8.0770 (0.77); 7.8320 (0.59); 7.8127 (0.78); 7.7924 (0.55); 7.7253 (0.86); 7.7226 (1.15); 7.7186 (0.54); 7.7100 (0.33); 7.7048 (1.57); 7.7011 (1.07); 7.5453 (0.75); 7.5303 (0.39); 7.5270 (0.66); 7.5235 (0.32); 7.4953 (1.08); 7.4918 (0.44); 7.4800 (0.73); 7.4762 (1.40); 7.4585 (0.58); 7.1465 (0.78); 7.1452 (0.79); 7.1280 (0.76); 7.1266 (0.73); 5.3564 (2.81); 3.3292 (22.20); 3.0495 (7.72); 2.8909 (2.42); 2.7323 (1.92); 2.7311 (1.89); 2.5206 (0.38); 2.5120 (5.12); 2.5075 (10.41); 2.5028 (13.85); 2.4982 (10.00); 2.4936 (4.73); 2.2811 (3.18); 1.0017 (16.00); -0.0002 (0.61)
Example 174, Solvent: DMSO, Spectrometer: 399,95 MHz
11.0174 (0.49); 10.9652 (2.77); 8.3621 (0.52); 8.3585 (0.37); 8.1522 (1.93); 8.1315 (2.48); 8.1187 (0.63); 7.9520 (1.28); 7.9233 (1.46); 7.9025 (5.11); 7.8812 (5.99); 7.8682 (1.35); 7.7992 (4.69); 7.7947 (2.16); 7.7826 (1.87); 7.7780 (3.76); 7.7644 (0.81); 7.7328 (3.18); 7.7150 (4.28); 7.7114 (3.40); 7.5664 (0.57); 7.5545 (0.53); 7.5480 (2.03); 7.5425 (0.92); 7.5299 (1.94); 7.4997 (2.99); 7.4804 (4.14); 7.4668 (1.49); 7.4629 (1.94); 7.3170 (0.51); 7.2339 (2.11); 7.2155 (2.23); 7.2036 (0.54); 5.4129 (7.30); 5.4004 (2.02); 3.3336 (259.50); 3.3254 (85.59); 3.2568 (0.38); 3.0748 (16.00); 3.0613 (3.35); 2.8906 (8.49); 2.8772 (1.53); 2.7508 (0.32); 2.7311 (7.17); 2.7175 (1.42); 2.6760 (0.42); 2.6715 (0.61); 2.6669 (0.52); 2.5244 (1.68); 2.5111 (31.96); 2.5068 (67.85); 2.5023 (96.64); 2.4978 (83.97); 2.4934 (59.44); 2.3335 (0.48); 2.3291 (0.67); 2.3245 (0.59); 1.2341 (0.71); 0.0080 (0.55); -0.0002 (16.64); -0.0084 (2.01); -0.0139 (2.74)
Example 175, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1866 (2.65); 7.9531 (0.97); 7.8234 (0.52); 7.8024 (1.91); 7.7867 (3.90); 7.7836 (2.80); 7.7670 (0.56); 7.7226 (2.65); 7.7188 (1.31); 7.7098 (0.80); 7.7048 (3.41); 7.7010 (2.41); 7.5633 (0.48); 7.5515 (0.36); 7.5449 (1.65); 7.5393 (0.49); 7.5300 (0.88); 7.5267 (1.43); 7.5234 (0.75); 7.4963 (2.45); 7.4809 (1.66); 7.4771 (3.12); 7.4635 (0.49); 7.4595 (1.22); 7.4563 (0.70); 7.2432 (0.55); 7.2390 (0.75); 7.2192 (3.18); 7.2006 (2.92); 7.1029 (1.35); 7.0982 (1.36); 7.0869 (1.23); 7.0822 (1.30); 6.9777 (1.59); 6.9580 (1.43); 6.9009 (0.95); 6.8985 (0.93); 6.8824 (1.72); 6.8802 (1.57); 6.8640 (0.79); 6.8616 (0.75); 5.3288 (6.32); 4.2549 (1.61); 4.2373 (3.54); 4.2196 (1.69); 3.7772 (16.00); 3.3389 (97.25); 3.0633 (15.72); 2.9347 (1.51); 2.9171 (3.04); 2.8995 (1.52); 2.8906 (7.73); 2.7322 (6.02); 2.7313 (6.13); 2.5256 (0.56); 2.5122 (11.48); 2.5077 (22.92); 2.5031 (30.26); 2.4985 (22.17); 2.4940 (10.74); -0.0002 (2.39)
Example 176, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5325 (4.18); 8.0778 (2.47); 8.0571 (2.95); 7.8416 (2.45); 7.8222 (3.52); 7.8021 (2.27); 7.7285 (5.15); 7.7157 (1.61); 7.7108 (6.55); 7.7070 (4.71); 7.5773 (0.91); 7.5741 (0.62); 7.5654 (0.75); 7.5589 (3.16); 7.5532 (1.01); 7.5440 (1.83); 7.5407 (2.80); 7.5375 (1.51); 7.5121 (4.79); 7.4967 (3.19); 7.4930 (5.96); 7.4794 (0.96); 7.4754 (2.26); 7.4721 (1.34); 7.1384 (3.59); 7.1205 (3.43); 5.3672 (12.41); 3.5051 (1.58); 3.4870 (5.34); 3.4688 (5.44); 3.4507 (1.66); 3.3929 (0.46); 3.3429 (38.50); 3.2931 (0.40); 2.6832 (0.41); 2.6787 (0.55); 2.6742 (0.40); 2.5641 (0.83); 2.5597 (1.13); 2.5553 (0.83); 2.5321 (1.45); 2.5185 (33.63); 2.5142 (70.52); 2.5097 (96.23); 2.5052 (69.78); 2.5009 (33.26); 2.4688 (0.65); 2.4644 (0.94); 2.4599 (1.16); 2.4554 (0.91); 2.4056 (3.54); 2.3873 (6.46); 2.3686 (3.85); 2.3410 (0.52); 2.3366 (0.71); 2.3321 (0.52); 1.5944 (0.88); 1.5762 (2.64); 1.5575 (3.67); 1.5391 (2.77); 1.5201 (1.13); 1.3728 (0.33); 1.3474 (0.61); 1.3288 (2.14); 1.3099 (3.42); 1.2911 (3.47); 1.2729 (2.15); 1.2548 (0.78); 1.2408 (0.39); 1.0603 (6.03); 1.0423 (13.70); 1.0240 (5.88); 0.9037 (7.83); 0.8854 (16.00); 0.8670 (6.78); 0.8512

(0.34)
Example 177, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4940 (1.73); 8.0791 (1.46); 8.0588 (1.73); 7.8363 (1.30); 7.8170 (1.73); 7.7968 (1.18); 7.7266 (1.92); 7.7243 (2.52); 7.7204 (1.19); 7.7116 (0.75); 7.7065 (3.35); 7.7026 (2.29); 7.5652 (0.48); 7.5533 (0.35); 7.5468 (1.62); 7.5411 (0.46); 7.5319 (0.85); 7.5286 (1.39); 7.5252 (0.69); 7.4978 (2.35); 7.4944 (0.97); 7.4825 (1.58); 7.4787 (3.02); 7.4651 (0.46); 7.4611 (1.20); 7.4578 (0.65); 7.1433 (1.74); 7.1257 (1.68); 5.3595 (6.26); 3.3326 (58.89); 3.0590 (16.00); 2.8910 (1.13); 2.7735 (0.82); 2.7564 (1.15); 2.7393 (0.88); 2.7322 (0.95); 2.7223 (0.33); 2.5257 (0.50); 2.5208 (0.83); 2.5123 (9.61); 2.5078 (19.11); 2.5032 (25.17); 2.4986 (18.15); 2.4940 (8.58); 1.0854 (13.94); 1.0684 (13.71); 1.0488 (0.41); -0.0002 (0.91)
Example 178, Solvent: DMSO, Spectrometer: 399,95 MHz
11.1105 (2.12); 8.1675 (0.51); 8.1474 (0.58); 7.9532 (0.83); 7.9310 (1.18); 7.9115 (1.71); 7.8914 (1.06); 7.7368 (0.39); 7.7312 (2.06); 7.7284 (2.75); 7.7246 (1.48); 7.7159 (0.85); 7.7108 (3.55); 7.7070 (2.57); 7.5710 (1.12); 7.5671 (1.41); 7.5609 (0.50); 7.5524 (1.88); 7.5458 (2.62); 7.5406 (1.50); 7.5309 (1.41); 7.5274 (2.18); 7.5241 (2.81); 7.5212 (2.24); 7.5057 (1.23); 7.5014 (1.68); 7.4967 (2.69); 7.4933 (1.30); 7.4877 (1.92); 7.4816 (2.44); 7.4776 (3.38); 7.4678 (1.11); 7.4635 (1.23); 7.4599 (1.43); 7.4567 (0.80); 7.4411 (1.38); 7.4374 (1.30); 7.4227 (1.64); 7.4191 (1.67); 7.4044 (0.68); 7.4008 (0.62); 7.2419 (1.69); 7.2234 (1.60); 5.3769 (4.33); 3.3314 (18.88); 3.0797 (16.00); 3.0662 (0.84); 3.0592 (0.39); 2.8902 (6.68); 2.7320 (5.26); 2.7308 (5.21); 2.5251 (0.50); 2.5203 (0.77); 2.5117 (9.24); 2.5072 (18.61); 2.5026 (24.66); 2.4980 (17.91); 2.4934 (8.52); 1.2347 (0.46); 0.9274 (0.36); 0.9106 (0.36); -0.0002 (6.89)
Example 179, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8683 (2.02); 8.0121 (1.14); 7.9916 (1.50); 7.9531 (0.80); 7.8734 (1.31); 7.8542 (1.74); 7.8339 (1.11); 7.7296 (1.95); 7.7271 (2.56); 7.7232 (1.23); 7.7144 (0.76); 7.7093 (3.42); 7.7055 (2.38); 7.5673 (0.49); 7.5554 (0.35); 7.5491 (1.64); 7.5434 (0.48); 7.5340 (0.85); 7.5307 (1.42); 7.5273 (0.72); 7.4982 (2.36); 7.4947 (0.99); 7.4827 (1.68); 7.4790 (3.08); 7.4653 (0.49); 7.4613 (1.27); 7.4581 (0.70); 7.2691 (0.77); 7.2488 (1.95); 7.2318 (0.43); 7.2276 (1.43); 7.2089 (1.74); 7.1914 (1.68); 7.1453 (3.72); 7.1413 (4.09); 7.1375 (1.20); 7.1265 (1.03); 7.1245 (1.07); 7.1223 (0.79); 7.1201 (0.60); 6.9514 (0.95); 6.9471 (1.32); 6.9429 (0.89); 6.9303 (0.89); 6.9283 (0.88); 6.9242 (0.89); 6.9223 (0.79); 5.3899 (5.81); 5.1185 (0.97); 5.1021 (0.98); 3.3336 (96.07); 3.0642 (16.00); 2.8909 (6.73); 2.7324 (5.27); 2.7313 (5.16); 2.5257 (0.66); 2.5209 (1.02); 2.5123 (13.79); 2.5077 (27.87); 2.5031 (36.97); 2.4985 (26.80); 2.4940 (12.70); 1.5333 (5.24); 1.5169 (5.22); -0.0002 (3.65)
Example 180, Solvent: DMSO, Spectrometer: 399,95 MHz
12.6387 (1.10); 8.0024 (3.31); 7.9817 (3.46); 7.9534 (1.30); 7.7464 (2.73); 7.7424 (1.31); 7.7339 (0.75); 7.7288 (3.40); 7.7249 (2.36); 7.5674 (0.46); 7.5561 (0.33); 7.5490 (1.67); 7.5431 (0.50); 7.5345 (0.92); 7.5310 (1.54); 7.5275 (0.78); 7.5068 (2.57); 7.5035 (1.10); 7.4918 (1.57); 7.4878 (3.11); 7.4745 (0.47); 7.4703 (1.22); 7.4667 (0.72); 7.3618 (4.47); 7.3566 (2.93); 7.3363 (2.54); 5.3801 (5.76); 3.3299 (37.79); 3.0182 (16.00); 2.8906 (10.49); 2.7313 (8.46); 2.5253 (0.56); 2.5205 (0.87); 2.5120 (10.77); 2.5075 (21.56); 2.5029 (28.46); 2.4983 (20.56); 2.4938 (9.71); 2.3857 (8.82); -0.0002 (7.41)
Example 181, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4711 (2.24); 8.2403 (1.27); 8.2197 (1.46); 7.9535 (0.44); 7.9239 (1.22); 7.9043 (1.82); 7.8968 (1.39); 7.8923 (1.45); 7.8844 (1.25); 7.8775 (1.48); 7.8730 (1.42); 7.7447 (1.95); 7.7421 (2.54); 7.7381 (1.21); 7.7295 (0.81); 7.7244 (3.40); 7.7206 (2.31); 7.5964 (0.73); 7.5919 (0.72); 7.5781 (0.95); 7.5753 (1.12); 7.5739 (1.08); 7.5708 (1.07); 7.5668 (0.57); 7.5635 (0.38); 7.5572 (1.05); 7.5526 (1.08); 7.5485 (1.67); 7.5427 (0.49); 7.5336 (0.90); 7.5302 (1.45); 7.5268 (0.72); 7.5016 (2.35); 7.4981 (0.99); 7.4864 (1.59); 7.4825 (3.02); 7.4690 (0.48); 7.4649 (1.22); 7.4615 (0.67); 7.2578 (1.68); 7.2377 (1.50); 7.2228 (1.74); 7.2043 (1.69); 7.1388 (0.99); 7.1366 (0.95); 7.1198 (1.64); 7.1183 (1.58); 7.1013 (0.90); 7.0991 (0.83); 5.4054 (6.07); 3.9637 (13.31); 3.3374 (70.18); 3.1119 (16.00); 2.8910 (3.66); 2.7326 (2.89); 2.7316 (2.80); 2.5260 (0.49); 2.5212 (0.79); 2.5126 (9.51); 2.5081 (18.83); 2.5035 (24.63); 2.4989 (17.69); 2.4944 (8.33); -0.0002 (3.28)
Example 182, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1856 (0.61); 10.1708 (2.08); 7.8299 (0.39); 7.8088 (2.07); 7.8008 (1.98); 7.7943 (5.27); 7.7799 (0.39); 7.7219 (2.53); 7.7086 (0.83); 7.7038 (3.15); 7.7000 (2.27); 7.5625 (0.48); 7.5507 (0.37); 7.5442 (1.69); 7.5386 (0.50); 7.5293 (0.89); 7.5260 (1.43); 7.5227 (0.74); 7.4957 (2.45); 7.4801 (1.70); 7.4764 (3.15); 7.4627 (0.50); 7.4587 (1.21); 7.4555 (0.69); 7.1015 (1.27); 7.0948 (1.08); 7.0870 (1.13); 7.0808 (1.20); 5.3296 (5.58); 4.1394 (1.64); 4.1223 (3.47); 4.1053 (1.70); 3.9744 (0.34); 3.9590 (0.35); 3.9160 (0.35); 3.8994 (0.35); 3.3428 (190.68); 3.0647 (16.00); 2.8912 (0.69); 2.7321 (0.56); 2.5257 (0.80); 2.5124 (16.78); 2.5079 (33.61); 2.5033 (44.43); 2.4987 (32.45); 2.4943 (15.78); 1.7102 (0.62); 1.6935 (0.82); 1.6767 (0.71); 1.6601 (0.40); 1.5327 (0.98); 1.5156 (2.85); 1.4985 (2.56); 1.4814 (0.80); 1.2348 (0.32); 0.9270 (0.58); 0.9146 (15.37); 0.8980 (14.95); 0.8892 (1.21); 0.8826 (1.81); 0.8725 (0.88); 0.8639 (0.71); -0.0002 (5.02)
Example 183, Solvent: DMSO, Spectrometer: 400,13 MHz
11.4550 (1.75); 7.9097 (0.81); 7.8897 (1.65); 7.8706 (1.15); 7.7324 (2.64); 7.7197 (0.87); 7.7146 (3.39); 7.7109 (2.39); 7.5698 (0.50); 7.5667 (0.34); 7.5578 (0.39); 7.5516 (1.64); 7.5459 (0.50); 7.5366 (0.89); 7.5333 (1.40); 7.5300 (0.73); 7.5010 (2.35); 7.4854 (1.69); 7.4818 (3.05); 7.4681 (0.49); 7.4641 (1.20); 7.4610 (0.69); 7.2522 (1.52); 7.2320 (1.44); 5.3849 (6.33); 4.4679 (1.79); 4.4515 (3.80); 4.4352 (1.82); 3.3999 (2.05); 3.3497 (219.89); 3.3000 (1.99); 3.0666 (16.00); 2.6767 (0.38); 2.5624 (0.48); 2.5580 (0.61); 2.5535 (0.42); 2.5302 (1.07); 2.5254 (1.80); 2.5167 (22.34); 2.5123 (45.93); 2.5078 (61.94); 2.5033 (44.09); 2.4989 (20.54); 2.4671 (0.41); 2.4627 (0.57); 2.4581 (0.65); 2.4536 (0.42); 2.3346 (0.38); 1.7159 (0.45); 1.6992 (1.32); 1.6923 (0.50); 1.6814 (1.62); 1.6619 (1.41); 1.6455 (0.56); 1.4150 (0.94); 1.3961 (1.55); 1.3773 (1.55); 1.3590 (0.90); 0.9199 (3.53); 0.9015 (7.19); 0.8829 (3.09)
Example 184, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5439 (1.97); 8.0731 (1.14); 8.0525 (1.36); 7.9531 (0.35); 7.8385 (1.18); 7.8193 (1.58); 7.7990 (1.10); 7.7241 (1.82); 7.7215 (2.39); 7.7176 (1.17); 7.7088 (0.75); 7.7037 (3.21); 7.7000 (2.23); 7.5641 (0.46); 7.5522 (0.34); 7.5458 (1.53); 7.5401 (0.46); 7.5309 (0.80); 7.5275 (1.33); 7.5241 (0.66); 7.4964 (2.23); 7.4929 (0.95); 7.4810 (1.50); 7.4772 (2.86); 7.4637 (0.44); 7.4596 (1.16); 7.4564 (0.63); 7.1985 (0.52); 7.1941 (0.72); 7.1784 (0.84); 7.1743 (1.30); 7.1678 (1.35); 7.1639 (0.95); 7.1602 (0.69); 7.1556 (1.16); 7.1489 (1.55); 7.1438 (2.16); 7.1247 (1.57);

6.9539 (1.59); 6.9336 (1.43); 6.8677 (0.97); 6.8652 (0.85); 6.8492 (1.72); 6.8467 (1.47); 6.8308 (0.79); 6.8282 (0.68); 5.3494 (5.50); 4.0439 (0.51); 4.0261 (0.52); 3.7797 (16.00); 3.3330 (71.39); 3.0469 (15.02); 2.8904 (3.02); 2.8664 (1.01); 2.8485 (1.83); 2.8280 (1.46); 2.8011 (0.32); 2.7321 (2.37); 2.7310 (2.30); 2.6673 (1.68); 2.6506 (1.16); 2.6466 (2.01); 2.6285 (1.02); 2.5461 (0.35); 2.5257 (0.87); 2.5205 (0.88); 2.5119 (10.15); 2.5074 (20.41); 2.5027 (26.76); 2.4981 (19.33); 2.4936 (9.10); 1.1700 (0.58); 1.1522 (1.22); 1.1345 (0.56); 0.8757 (0.43); -0.0002 (5.23)
Example 185, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.9283 (2.16); 7.9007 (2.74); 7.7163 (1.49); 7.6905 (2.60); 7.6646 (1.29); 7.5846 (4.48); 7.5581 (4.95); 7.2637 (7.93); 7.0223 (2.69); 6.9980 (2.54); 6.9266 (5.31); 6.9007 (4.85); 6.7759 (0.57); 5.3056 (0.37); 5.2570 (10.02); 5.1202 (0.33); 5.0276 (0.79); 5.0079 (1.48); 4.9879 (1.42); 4.9693 (0.79); 3.8411 (16.00); 3.2810 (0.32); 3.0929 (15.51); 1.7320 (0.47); 1.7110 (0.96); 1.6882 (1.31); 1.6508 (1.63); 1.6204 (4.25); 1.5870 (1.42); 1.5647 (0.73); 1.3395 (1.47); 1.3167 (1.80); 1.2930 (9.08); 1.2726 (8.98); 0.9350 (15.38); 0.9144 (14.64); -0.0002 (4.37)
Example 186, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2345 (2.80); 7.9531 (0.71); 7.8221 (0.75); 7.8011 (1.81); 7.7836 (2.16); 7.7726 (2.19); 7.7703 (2.28); 7.7520 (0.86); 7.7220 (2.79); 7.7040 (3.52); 7.7003 (2.46); 7.5624 (0.52); 7.5594 (0.35); 7.5504 (0.42); 7.5441 (1.74); 7.5385 (0.54); 7.5290 (0.99); 7.5259 (1.47); 7.5226 (0.75); 7.4952 (2.57); 7.4795 (1.87); 7.4760 (3.27); 7.4622 (0.54); 7.4583 (1.25); 7.4552 (0.72); 7.4225 (0.67); 7.4184 (0.65); 7.4035 (1.22); 7.3990 (1.26); 7.3833 (0.68); 7.3800 (0.70); 7.3034 (0.37); 7.2987 (0.77); 7.2840 (0.75); 7.2783 (0.92); 7.2739 (0.52); 7.2645 (0.51); 7.2602 (0.43); 7.2240 (0.42); 7.2070 (0.75); 7.1870 (1.03); 7.1664 (2.07); 7.1500 (1.89); 7.1475 (1.62); 7.1433 (0.86); 7.1316 (0.81); 7.1289 (0.65); 7.1048 (1.62); 7.1022 (1.59); 7.0873 (1.57); 7.0847 (1.47); 5.3288 (6.75); 4.3161 (1.77); 4.2992 (3.90); 4.2823 (1.81); 3.3288 (77.85); 3.0613 (16.00); 3.0360 (0.56); 2.9986 (1.39); 2.9818 (2.76); 2.9650 (1.29); 2.8906 (5.36); 2.7317 (4.48); 2.5113 (19.22); 2.5069 (35.97); 2.5024 (45.95); 2.4978 (33.18); 2.4935 (15.90); 1.2349 (0.43); 0.0079 (0.47); -0.0002 (10.29); -0.0085 (0.33)
Example 187, Solvent: DMSO, Spectrometer: 399,95 MHz
10.9980 (2.26); 8.1570 (1.59); 8.1370 (1.93); 7.9746 (0.46); 7.9685 (3.76); 7.9636 (1.22); 7.9520 (2.11); 7.9469 (4.65); 7.9408 (0.60); 7.9287 (1.28); 7.9094 (1.76); 7.8891 (1.15); 7.7352 (2.97); 7.7302 (5.32); 7.7251 (1.54); 7.7173 (3.55); 7.7135 (3.43); 7.7085 (3.88); 7.7023 (0.45); 7.5675 (0.48); 7.5557 (0.35); 7.5492 (1.63); 7.5434 (0.48); 7.5343 (0.86); 7.5309 (1.42); 7.5275 (0.70); 7.5008 (2.38); 7.4973 (1.01); 7.4854 (1.61); 7.4816 (3.06); 7.4681 (0.47); 7.4640 (1.22); 7.4607 (0.68); 7.2402 (1.74); 7.2219 (1.69); 5.4168 (6.02); 3.3313 (54.91); 3.0774 (16.00); 2.8908 (7.50); 2.7321 (6.14); 2.7311 (5.80); 2.5252 (0.66); 2.5204 (1.09); 2.5119 (12.91); 2.5074 (25.67); 2.5028 (33.69); 2.4982 (24.28); 2.4936 (11.37); 0.0080 (0.32); -0.0002 (9.68)
Example 188, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6228 (1.66); 8.0751 (0.94); 8.0544 (1.13); 7.9527 (0.34); 7.8495 (1.04); 7.8300 (1.49); 7.8099 (0.95); 7.7229 (2.22); 7.7101 (0.72); 7.7052 (2.81); 7.7015 (2.00); 7.5646 (0.40); 7.5462 (1.33); 7.5406 (0.42); 7.5313 (0.73); 7.5280 (1.17); 7.5247 (0.64); 7.4971 (2.06); 7.4816 (1.43); 7.4779 (2.59); 7.4644 (0.45); 7.4603 (1.02); 7.4572 (0.62); 7.1583 (1.54); 7.1398 (1.45); 5.3617 (5.31); 3.3370 (87.40); 3.0555 (12.82); 2.8905 (2.63); 2.7445 (0.65); 2.7306 (3.30); 2.7289 (3.34); 2.7171 (3.13); 2.7095 (2.99); 2.6982 (2.32); 2.6821 (0.62); 2.6721 (0.42); 2.5252 (0.62); 2.5117 (10.99); 2.5074 (21.33); 2.5028 (27.84); 2.4983 (20.51); 2.4938 (10.05); 2.0764 (16.00); -0.0002 (2.01)
Example 189, Solvent: DMSO, Spectrometer: 399,95 MHz
11.1037 (1.84); 8.0165 (1.21); 7.9960 (1.59); 7.9531 (1.28); 7.8721 (1.31); 7.8530 (1.73); 7.8326 (1.15); 7.7282 (2.05); 7.7255 (2.60); 7.7216 (1.30); 7.7129 (0.89); 7.7077 (3.59); 7.7040 (2.47); 7.5647 (0.52); 7.5615 (0.32); 7.5527 (0.38); 7.5464 (1.67); 7.5408 (0.50); 7.5314 (0.89); 7.5281 (1.45); 7.5247 (0.74); 7.4953 (2.39); 7.4918 (1.01); 7.4799 (1.69); 7.4761 (3.12); 7.4625 (0.50); 7.4584 (1.27); 7.4553 (0.70); 7.1973 (1.70); 7.1799 (1.65); 5.3952 (5.72); 3.3590 (0.49); 3.3334 (125.04); 3.0610 (16.00); 2.8911 (10.61); 2.7322 (8.55); 2.7310 (8.21); 2.5253 (0.85); 2.5205 (1.37); 2.5120 (16.39); 2.5075 (32.58); 2.5028 (42.74); 2.4982 (30.83); 2.4937 (14.55); 2.4377 (0.45); 2.4190 (0.62); 2.4008 (0.64); 2.3823 (0.49); 2.2072 (0.39); 2.1911 (1.52); 2.1747 (1.58); 2.1584 (0.40); 1.4256 (0.51); 1.4069 (0.72); 1.3887 (0.73); 1.3702 (0.61); 1.2832 (0.45); 1.1985 (6.18); 1.1822 (5.98); 0.8909 (2.37); 0.8724 (5.19); 0.8626 (0.89); 0.8536 (2.23); 0.0080 (0.43); -0.0002 (12.63); -0.0085 (0.36)
Example 190, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5608 (1.34); 8.0228 (0.72); 8.0021 (0.89); 7.9528 (0.38); 7.8316 (0.76); 7.8122 (1.10); 7.7920 (0.69); 7.7302 (1.64); 7.7124 (2.01); 7.7087 (1.45); 7.5489 (0.97); 7.5436 (0.32); 7.5340 (0.53); 7.5309 (0.83); 7.5277 (0.47); 7.5005 (1.48); 7.4847 (1.03); 7.4813 (1.85); 7.4636 (0.69); 7.4606 (0.43); 7.1509 (1.12); 7.1325 (1.07); 6.8993 (1.12); 6.8772 (1.75); 6.8389 (1.14); 6.8314 (1.58); 6.8066 (1.21); 6.7989 (0.76); 6.7846 (0.72); 6.7769 (0.52); 5.3707 (3.71); 3.6870 (16.00); 3.5449 (0.32); 3.3313 (39.68); 3.0634 (8.83); 2.8898 (2.88); 2.7309 (2.40); 2.5110 (7.31); 2.5067 (13.78); 2.5022 (17.78); 2.4977 (13.04); 2.4933 (6.37); 1.1676 (0.35); -0.0002 (3.10)
Example 191, Solvent: DMSO, Spectrometer: 499,93 MHz
12.1460 (2.13); 8.0017 (0.91); 7.9855 (2.03); 7.9703 (1.79); 7.9417 (2.55); 7.9255 (1.40); 7.7986 (0.34); 7.7938 (0.42); 7.6739 (4.00); 7.6699 (2.08); 7.6561 (4.45); 7.3455 (1.98); 7.3308 (1.92); 7.0396 (4.23); 7.0218 (4.19); 5.7761 (3.49); 5.3920 (6.96); 5.3772 (0.52); 5.2861 (0.72); 3.8283 (0.81); 3.8147 (16.00); 3.3674 (5.04); 3.3439 (0.35); 3.1634 (0.42); 3.0586 (15.02); 2.5170 (2.29); 2.5137 (3.03); 2.5104 (2.41); 1.9994 (0.56); 1.2582 (0.59); 1.2457 (0.67); 1.2342 (0.58); 1.2218 (0.52); 0.8992 (0.72); 0.8879 (0.71); 0.8862 (0.72)
Example 192, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1742 (2.55); 7.9535 (0.41); 7.8300 (0.54); 7.8090 (1.93); 7.7933 (4.11); 7.7896 (2.83); 7.7732 (0.60); 7.7260 (1.98); 7.7233 (2.58); 7.7195 (1.26); 7.7108 (0.78); 7.7056 (3.39); 7.7019 (2.37); 7.5632 (0.49); 7.5513 (0.36); 7.5449 (1.63); 7.5391 (0.49); 7.5300 (0.88); 7.5266 (1.43); 7.5232 (0.73); 7.4962 (2.40); 7.4928 (1.03); 7.4809 (1.64); 7.4771 (3.06); 7.4635 (0.47); 7.4595 (1.22); 7.4562 (0.68); 7.1022 (1.35); 7.0975 (1.36); 7.0861 (1.24); 7.0815 (1.28); 5.3340 (6.35); 4.0253 (4.21); 4.0105 (4.19); 3.3444 (106.79); 3.3202 (0.53); 3.0655 (16.00); 2.8915 (3.26); 2.7329 (2.64); 2.7317 (2.60); 2.5264 (0.50); 2.5216 (0.82); 2.5131 (9.67); 2.5086 (19.27); 2.5040 (25.37); 2.4994 (18.43); 2.4948 (8.78); 1.5324 (0.68); 1.5169 (1.01); 1.5013 (0.84); 1.4858 (0.41); 1.3872 (0.69); 1.3779 (0.56); 1.3682 (1.83); 1.3595 (1.77); 1.3495 (2.08); 1.3419 (2.25); 1.3336 (1.60); 1.3247 (1.84); 1.3149 (0.57); 1.3067 (0.76); 0.8918 (6.94); 0.8827 (0.78); 0.8733 (14.45); 0.8545 (5.92); -0.0002 (1.59)
Example 193, Solvent: DMSO, Spectrometer: 400,13 MHz

9.8075 (1.18); 7.8067 (0.34); 7.7858 (0.74); 7.7676 (0.77); 7.7440 (0.93); 7.7250 (0.43); 7.6041 (0.34); 7.5968 (0.55); 7.5913 (0.40); 7.5840 (0.43); 7.5770 (0.75); 7.5580 (0.36); 7.3637 (0.39); 7.3434 (0.40); 7.3361 (0.53); 7.3329 (0.66); 7.3142 (1.09); 7.2951 (0.38); 7.2926 (0.33); 7.1170 (0.69); 7.1003 (0.64); 5.3220 (2.56); 3.3496 (6.90); 2.5169 (3.21); 2.5126 (6.45); 2.5081 (8.62); 2.5037 (6.15); 2.4994 (2.89); 1.4659 (16.00); 1.3779 (0.32)
Example 194, Solvent: DMSO, Spectrometer: 399,95 MHz
12.1539 (1.39); 7.7436 (0.41); 7.7375 (1.92); 7.7348 (2.58); 7.7308 (1.30); 7.7224 (0.96); 7.7172 (3.36); 7.7134 (2.30); 7.5640 (0.50); 7.5608 (0.34); 7.5527 (0.38); 7.5457 (1.64); 7.5398 (0.52); 7.5310 (1.00); 7.5276 (1.52); 7.5241 (0.76); 7.5018 (2.48); 7.4984 (1.12); 7.4868 (1.72); 7.4828 (3.05); 7.4695 (0.57); 7.4653 (1.22); 7.4618 (0.68); 7.3763 (7.33); 7.3708 (3.59); 7.3602 (3.85); 7.3533 (3.47); 7.3461 (1.39); 7.3429 (1.36); 7.3404 (1.38); 7.3198 (3.36); 7.3085 (0.92); 7.2970 (1.17); 7.2847 (0.33); 5.4850 (0.46); 5.3745 (0.36); 5.3310 (4.73); 5.1949 (0.66); 5.1861 (0.60); 5.1812 (0.78); 4.9241 (1.28); 4.9149 (1.23); 4.9102 (0.96); 4.9057 (1.15); 4.8977 (1.97); 4.8879 (0.35); 4.8592 (0.62); 4.8455 (0.58); 4.8349 (0.77); 4.7813 (1.01); 4.5853 (6.58); 4.5680 (2.97); 4.5464 (0.58); 4.2871 (2.56); 4.2709 (0.78); 4.2462 (6.50); 4.1258 (0.96); 4.1098 (0.95); 3.8443 (0.78); 3.6800 (2.12); 3.3842 (0.41); 3.3326 (338.47); 3.0557 (0.36); 3.0468 (0.32); 3.0156 (16.00); 2.8903 (0.99); 2.7304 (0.77); 2.6800 (0.32); 2.6756 (0.70); 2.6711 (0.96); 2.6664 (0.68); 2.5244 (2.76); 2.5196 (4.50); 2.5110 (56.29); 2.5065 (112.47); 2.5019 (148.17); 2.4973 (107.53); 2.4928 (51.23); 2.3377 (0.36); 2.3333 (0.74); 2.3287 (0.99); 2.3242 (0.72); 2.3197 (0.36); 1.2352 (0.66); 0.0080 (0.97); -0.0002 (29.69); -0.0086 (0.88)
Example 195, Solvent: DMSO, Spectrometer: 399,95 MHz
11.9972 (1.78); 7.9529 (0.44); 7.7372 (1.98); 7.7347 (2.59); 7.7307 (1.25); 7.7222 (0.80); 7.7170 (3.40); 7.7132 (2.33); 7.5641 (0.46); 7.5527 (0.34); 7.5458 (1.66); 7.5399 (0.49); 7.5311 (0.92); 7.5277 (1.48); 7.5242 (0.74); 7.5018 (2.47); 7.4985 (1.05); 7.4868 (1.61); 7.4828 (3.05); 7.4694 (0.48); 7.4653 (1.20); 7.4618 (0.66); 7.3106 (4.44); 5.3305 (6.05); 4.1165 (9.21); 4.0002 (0.65); 3.9902 (0.90); 3.9804 (0.78); 3.3322 (59.45); 3.0125 (16.00); 2.8908 (3.55); 2.7320 (2.85); 2.7310 (2.79); 2.5251 (0.57); 2.5117 (11.15); 2.5072 (22.21); 2.5026 (29.22); 2.4980 (21.22); 2.4935 (10.14); 1.6846 (0.35); 1.6746 (0.78); 1.6707 (0.89); 1.6578 (2.44); 1.6550 (2.68); 1.6490 (3.72); 1.6465 (3.44); 1.6385 (4.46); 1.6298 (1.54); 1.6187 (0.74); 1.6075 (0.55); 1.6028 (0.52); 1.4829 (1.01); 1.4761 (1.08); 1.4665 (0.90); 0.0080 (0.33); -0.0002 (10.02)
Example 196, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8301 (1.89); 8.0235 (1.08); 8.0028 (1.34); 7.9533 (0.96); 7.8389 (1.29); 7.8197 (1.72); 7.7993 (1.14); 7.7256 (1.93); 7.7231 (2.55); 7.7192 (1.20); 7.7104 (0.77); 7.7053 (3.41); 7.7015 (2.34); 7.5655 (0.49); 7.5536 (0.36); 7.5472 (1.63); 7.5415 (0.48); 7.5322 (0.86); 7.5289 (1.40); 7.5255 (0.69); 7.4972 (2.36); 7.4938 (0.98); 7.4818 (1.62); 7.4781 (3.04); 7.4644 (0.47); 7.4604 (1.22); 7.4572 (0.67); 7.3943 (0.94); 7.3926 (0.74); 7.3874 (0.54); 7.3790 (0.90); 7.3722 (7.83); 7.3690 (2.87); 7.3644 (6.62); 7.3575 (0.74); 7.3490 (0.45); 7.3422 (0.88); 7.1637 (1.72); 7.1463 (1.66); 5.3697 (5.94); 3.7272 (5.85); 3.3342 (102.59); 3.0507 (16.00); 2.8907 (8.08); 2.7321 (6.25); 2.7311 (6.24); 2.5255 (0.68); 2.5207 (1.08); 2.5122 (13.38); 2.5076 (26.78); 2.5030 (35.23); 2.4984 (25.41); 2.4938 (11.94); -0.0002 (5.23)
Example 197, Solvent: DMSO, Spectrometer: 499,93 MHz
7.7531 (2.74); 7.7426 (0.97); 7.7387 (3.35); 7.7358 (2.51); 7.5661 (0.54); 7.5637 (0.38); 7.5561 (0.44); 7.5514 (1.70); 7.5472 (0.66); 7.5390 (1.14); 7.5368 (1.54); 7.5343 (0.91); 7.5244 (0.43); 7.5060 (2.59); 7.5029 (2.05); 7.4904 (3.82); 7.4796 (0.97); 7.4762 (1.65); 7.4739 (1.33); 7.4713 (1.47); 7.3695 (0.33); 7.3009 (0.60); 7.2960 (0.34); 7.2920 (0.74); 7.2847 (0.62); 7.1964 (0.41); 6.5446 (1.64); 6.5402 (2.15); 6.5263 (2.97); 5.7777 (2.34); 5.2802 (0.36); 5.2431 (6.80); 3.9093 (0.44); 3.7593 (1.82); 3.6223 (0.46); 3.6209 (0.46); 3.4938 (1.50); 3.4798 (4.87); 3.4658 (5.01); 3.4519 (1.70); 3.3664 (2.18); 3.3406 (0.69); 3.0694 (16.00); 3.0540 (0.46); 3.0210 (0.67); 2.5204 (1.77); 2.5171 (3.78); 2.5136 (5.21); 2.5100 (3.94); 2.5067 (2.01); 2.3165 (1.95); 2.2189 (0.71); 1.6012 (0.53); 1.4713 (0.51); 1.4334 (0.97); 1.2419 (0.47); 1.0913 (5.78); 1.0774 (13.03); 1.0634 (5.98)
Example 198, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1310 (3.72); 7.7440 (4.00); 7.7247 (4.54); 7.5710 (0.65); 7.5531 (1.97); 7.5354 (1.98); 7.5100 (3.43); 7.4909 (4.23); 7.4724 (1.53); 7.2682 (5.13); 5.3276 (8.77); 4.0450 (0.91); 4.0271 (0.91); 3.3442 (36.64); 3.0208 (16.00); 2.5109 (29.55); 2.4248 (2.36); 2.4065 (4.70); 2.3881 (2.63); 1.9971 (3.67); 1.6264 (0.57); 1.6080 (1.91); 1.5902 (2.77); 1.5725 (1.95); 1.5551 (0.63); 1.3164 (0.70); 1.3013 (1.67); 1.2772 (4.42); 1.2699 (4.39); 1.2406 (1.32); 1.1996 (1.03); 1.1818 (1.92); 1.1640 (0.99); 1.1305 (0.56); 1.1154 (0.55); 0.8807 (3.55); 0.8646 (7.48); 0.8471 (3.55)
Example 199, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2386 (3.75); 7.8908 (0.59); 7.8698 (2.25); 7.8535 (5.80); 7.8338 (0.76); 7.7875 (3.92); 7.7688 (4.45); 7.6246 (0.65); 7.6068 (1.98); 7.5890 (1.85); 7.5583 (3.28); 7.5391 (4.18); 7.5208 (1.54); 7.1635 (2.05); 7.1473 (1.94); 5.8248 (3.93); 5.3893 (8.72); 5.0345 (0.71); 5.0193 (1.26); 5.0073 (1.31); 4.9917 (0.76); 3.5848 (0.76); 3.5613 (1.84); 3.5439 (2.34); 3.5280 (4.17); 3.5098 (4.87); 3.4924 (1.20); 3.4863 (1.02); 3.3996 (33.79); 3.3760 (2.77); 3.1356 (16.00); 2.5664 (53.52); 2.3924 (0.33); 1.2763 (7.71); 1.2602 (7.72); 1.1786 (4.44); 1.1611 (8.80); 1.1437 (4.38); -0.0002 (0.32)
Example 200, Solvent: DMSO, Spectrometer: 399,95 MHz
10.0669 (2.72); 7.9531 (0.43); 7.8220 (0.42); 7.8009 (2.26); 7.7921 (2.46); 7.7862 (5.44); 7.7712 (0.51); 7.7224 (2.73); 7.7186 (1.39); 7.7097 (0.86); 7.7046 (3.50); 7.7009 (2.49); 7.5625 (0.51); 7.5593 (0.34); 7.5506 (0.38); 7.5441 (1.66); 7.5384 (0.53); 7.5292 (0.91); 7.5259 (1.47); 7.5225 (0.79); 7.4957 (2.51); 7.4924 (1.15); 7.4803 (1.70); 7.4765 (3.17); 7.4630 (0.52); 7.4589 (1.25); 7.4557 (0.73); 7.0955 (1.33); 7.0893 (1.34); 7.0810 (1.17); 7.0748 (1.30); 5.3256 (6.60); 4.8229 (0.50); 4.8074 (0.82); 4.7906 (0.83); 4.7751 (0.51); 3.3495 (128.02); 3.0714 (16.00); 2.8916 (3.46); 2.7321 (2.77); 2.5266 (0.61); 2.5134 (10.19); 2.5089 (20.15); 2.5043 (26.68); 2.4998 (19.80); 2.4953 (9.87); 1.5837 (0.40); 1.5731 (0.52); 1.5645 (0.45); 1.5596 (0.43); 1.5548 (0.51); 1.5393 (0.62); 1.5248 (0.57); 1.5183 (0.44); 1.5046 (0.40); 1.3356 (0.55); 1.3080 (1.81); 1.2994 (2.11); 1.2965 (2.07); 1.2850 (1.55); 1.2719 (0.77); 1.2598 (0.36); 1.2534 (0.33); 1.2303 (6.88); 1.2147 (6.76); 0.8885 (1.66); 0.8715 (3.87); 0.8536 (1.45); -0.0002 (0.79)
Example 201, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3873 (6.45); 7.8543 (1.01); 7.8332 (4.47); 7.8216 (5.37); 7.8174 (9.45); 7.8009 (1.23); 7.7953 (0.41); 7.7250 (5.85); 7.7123 (1.79); 7.7072

(7.41); 7.7035 (5.23); 7.5769 (0.64); 7.5738 (1.12); 7.5706 (0.83); 7.5619 (0.96); 7.5554 (3.69); 7.5497 (1.21); 7.5406 (2.12); 7.5373 (3.23); 7.5339 (1.73); 7.5087 (5.41); 7.4934 (3.70); 7.4896 (6.72); 7.4761 (1.15); 7.4720 (2.75); 7.4687 (1.67); 7.4404 (2.11); 7.4358 (2.89); 7.4192 (7.93); 7.4152 (7.60); 7.4135 (7.36); 7.4107 (6.78); 7.4052 (1.46); 7.3934 (7.72); 7.3889 (2.42); 7.3785 (1.83); 7.3742 (2.89); 7.3582 (1.70); 7.3537 (2.67); 7.3487 (1.41); 7.3439 (1.17); 7.3365 (2.54); 7.3291 (0.96); 7.3238 (0.83); 7.3171 (1.39); 7.1149 (2.86); 7.1095 (2.85); 7.0996 (2.59); 7.0942 (2.75); 5.3506 (13.87); 5.1862 (16.00); 4.5052 (0.38); 4.4907 (0.37); 3.5221 (1.78); 3.5040 (6.02); 3.4858 (6.14); 3.4676 (1.85); 3.3953 (2.45); 3.3454 (152.36); 3.3218 (1.12); 3.2955 (1.14); 2.6792 (0.38); 2.5689 (0.38); 2.5646 (0.74); 2.5600 (1.00); 2.5556 (0.73); 2.5511 (0.37); 2.5325 (0.86); 2.5191 (22.11); 2.5147 (46.04); 2.5102 (62.64); 2.5057 (44.54); 2.5013 (20.50); 2.4602 (0.44); 2.4558 (0.38); 2.3369 (0.38); 1.9972 (1.37); 1.3708 (1.12); 1.3237 (0.55); 1.2407 (0.43); 1.1994 (0.42); 1.1817 (0.76); 1.1639 (0.38); 1.0551 (6.72); 1.0370 (15.39); 1.0187 (6.58)

Example 202, Solvent: DMSO, Spectrometer: 399,95 MHz

11.0982 (2.23); 8.1505 (1.59); 8.1306 (1.94); 7.9528 (0.93); 7.9484 (1.54); 7.9289 (1.82); 7.9087 (1.18); 7.7624 (1.46); 7.7567 (1.82); 7.7440 (1.37); 7.7412 (2.11); 7.7380 (3.00); 7.7355 (3.97); 7.7315 (1.56); 7.7229 (0.91); 7.7176 (3.43); 7.7138 (2.37); 7.5689 (0.48); 7.5657 (0.33); 7.5574 (0.69); 7.5508 (2.02); 7.5452 (0.73); 7.5353 (1.52); 7.5323 (1.77); 7.5290 (1.92); 7.5233 (0.66); 7.5121 (0.51); 7.5020 (2.55); 7.4867 (1.60); 7.4829 (3.07); 7.4694 (0.48); 7.4653 (1.23); 7.4620 (0.70); 7.2632 (1.78); 7.2454 (1.72); 5.4248 (6.10); 3.3442 (100.27); 3.0943 (0.34); 3.0785 (16.00); 2.8913 (6.97); 2.7324 (5.33); 2.7317 (5.39); 2.5263 (0.62); 2.5215 (0.99); 2.5130 (11.94); 2.5085 (23.82); 2.5039 (31.41); 2.4993 (22.74); 2.4947 (10.77); -0.0002 (1.22)

Example 203, Solvent: DMSO, Spectrometer: 400,13 MHz

12.4298 (2.41); 7.6250 (1.17); 7.6181 (1.35); 7.6141 (1.40); 7.6040 (1.01); 7.5940 (3.31); 7.5687 (0.82); 7.5546 (0.92); 7.5485 (1.27); 7.5342 (1.22); 7.5295 (0.81); 7.5134 (0.53); 7.4305 (0.62); 7.4278 (0.68); 7.4244 (0.64); 7.4217 (0.59); 7.4069 (1.11); 7.4027 (1.00); 7.3883 (0.52); 7.3828 (0.57); 7.3510 (0.51); 7.3468 (0.37); 7.3314 (3.65); 7.3262 (4.10); 7.3179 (13.37); 7.3034 (5.07); 7.2906 (0.37); 7.2780 (0.90); 7.2713 (0.94); 7.2689 (0.99); 7.2601 (0.81); 7.2565 (0.95); 7.2518 (0.68); 7.2465 (0.45); 7.2428 (0.47); 5.7615 (4.82); 5.3522 (6.66); 4.0419 (0.68); 4.0241 (0.70); 3.7558 (8.04); 3.4034 (3.90); 3.3532 (198.24); 3.3033 (2.75); 3.0161 (16.00); 2.5626 (0.48); 2.5580 (0.65); 2.5534 (0.51); 2.5488 (0.36); 2.5122 (27.53); 2.5078 (36.26); 2.5035 (26.37); 2.4625 (0.39); 2.4579 (0.46); 1.9936 (2.97); 1.2468 (0.42); 1.1964 (0.81); 1.1786 (1.57); 1.1608 (0.77); 0.8615 (0.51)

Example 204, Solvent: DMSO, Spectrometer: 399,95 MHz

10.8413 (2.18); 8.0076 (1.27); 7.9870 (1.66); 7.9530 (0.92); 7.8670 (1.37); 7.8477 (1.84); 7.8274 (1.15); 7.7281 (2.70); 7.7243 (1.32); 7.7153 (0.79); 7.7103 (3.45); 7.7065 (2.42); 7.5697 (0.49); 7.5665 (0.32); 7.5576 (0.37); 7.5512 (1.66); 7.5456 (0.50); 7.5363 (0.87); 7.5330 (1.43); 7.5297 (0.74); 7.5012 (2.46); 7.4979 (1.09); 7.4857 (1.69); 7.4820 (3.19); 7.4718 (0.53); 7.4632 (4.80); 7.4577 (1.35); 7.4460 (1.27); 7.4405 (4.44); 7.4318 (0.38); 7.2020 (1.83); 7.1841 (1.73); 6.9056 (0.43); 6.8969 (4.17); 6.8914 (1.24); 6.8798 (1.20); 6.8743 (3.92); 6.8656 (0.33); 5.3842 (6.11); 5.0686 (1.07); 5.0521 (1.07); 3.3370 (109.15); 3.0613 (16.00); 2.8907 (7.63); 2.7313 (6.04); 2.5256 (0.74); 2.5123 (14.64); 2.5078 (29.08); 2.5032 (38.29); 2.4986 (27.75); 2.4941 (13.21); 1.5345 (5.46); 1.5181 (5.42); -0.0002 (2.46)

Example 205, Solvent: DMSO, Spectrometer: 400,13 MHz

10.2539 (2.80); 7.8468 (0.61); 7.8258 (1.79); 7.8087 (2.72); 7.8062 (2.48); 7.8021 (2.53); 7.7850 (0.72); 7.7811 (0.46); 7.7309 (1.95); 7.7284 (2.59); 7.7246 (1.32); 7.7158 (0.79); 7.7106 (3.35); 7.7069 (2.41); 7.5683 (0.48); 7.5652 (0.33); 7.5565 (0.38); 7.5501 (1.60); 7.5444 (0.49); 7.5351 (0.88); 7.5318 (1.44); 7.5284 (0.76); 7.5012 (2.40); 7.4979 (1.11); 7.4858 (1.63); 7.4821 (3.03); 7.4685 (0.48); 7.4644 (1.19); 7.4612 (0.69); 7.1199 (1.35); 7.1161 (1.41); 7.1031 (1.29); 7.0993 (1.32); 5.7629 (5.65); 5.3423 (6.20); 4.1663 (1.39); 4.1503 (2.90); 4.1344 (1.43); 3.4009 (2.36); 3.3509 (182.55); 3.3235 (0.34); 3.3010 (1.74); 3.0681 (16.00); 2.5583 (0.34); 2.5307 (0.42); 2.5259 (0.71); 2.5173 (9.78); 2.5128 (20.52); 2.5083 (28.08); 2.5038 (20.19); 2.4994 (9.50); 2.4590 (0.42); 2.4316 (0.70); 2.4170 (0.49); 2.4119 (0.70); 2.4027 (0.88); 2.3911 (0.88); 2.3830 (0.71); 2.3742 (0.50); 2.3625 (0.76); 2.3340 (0.37); 1.8789 (0.44); 1.8630 (1.09); 1.8478 (0.92); 1.8426 (1.08); 1.8232 (1.04); 1.8071 (0.38)

Example 206, Solvent: CDCl3, Spectrometer: 300,16 MHz

7.9142 (1.19); 7.8866 (1.56); 7.7097 (1.08); 7.6839 (1.47); 7.6570 (0.91); 7.4591 (0.71); 7.4531 (0.81); 7.4458 (0.66); 7.4349 (0.44); 7.4262 (0.66); 7.4204 (0.84); 7.4161 (0.95); 7.4092 (1.09); 7.3916 (0.96); 7.3833 (1.04); 7.3753 (1.26); 7.3697 (2.24); 7.3668 (2.31); 7.3494 (0.46); 7.3447 (0.58); 7.2622 (13.27); 7.2093 (0.48); 7.2037 (0.55); 7.2010 (0.58); 7.1959 (0.54); 7.1818 (1.16); 7.1740 (1.97); 7.1593 (0.69); 7.1505 (0.70); 7.1425 (0.38); 7.0029 (1.55); 6.9786 (1.46); 5.5854 (0.66); 5.3012 (2.73); 5.2941 (7.16); 3.1072 (0.41); 3.0941 (16.00); 1.5679 (0.47); 1.5257 (41.12); 1.4635 (0.34); 1.4433 (8.40); -0.0002 (7.32)

Example 207, Solvent: DMSO, Spectrometer: 400,13 MHz

10.1215 (6.72); 7.8362 (1.44); 7.8152 (4.05); 7.7981 (5.62); 7.7940 (5.07); 7.7903 (5.55); 7.7730 (1.72); 7.7694 (1.12); 7.7248 (6.08); 7.7209 (3.06); 7.7121 (1.93); 7.7070 (7.83); 7.7033 (5.52); 7.5771 (0.61); 7.5741 (1.08); 7.5709 (0.73); 7.5623 (0.89); 7.5557 (3.78); 7.5500 (1.15); 7.5409 (2.15); 7.5376 (3.34); 7.5342 (1.75); 7.5100 (5.71); 7.4948 (3.76); 7.4909 (7.02); 7.4775 (1.12); 7.4734 (2.70); 7.4700 (1.55); 7.0981 (3.21); 7.0946 (3.22); 7.0812 (3.06); 7.0776 (2.98); 5.3434 (13.84); 4.8874 (0.98); 4.8720 (1.46); 4.8583 (1.41); 4.8547 (1.50); 4.8394 (1.01); 3.5303 (1.75); 3.5122 (6.02); 3.4940 (6.13); 3.4759 (1.90); 3.4628 (0.45); 3.4124 (8.00); 3.3926 (0.68); 3.3623 (579.30); 3.3382 (1.37); 3.3297 (0.78); 3.3253 (0.75); 3.3123 (6.40); 2.8081 (2.87); 2.8015 (6.71); 2.7949 (2.94); 2.6835 (0.34); 2.6790 (0.50); 2.6744 (0.35); 2.5689 (0.36); 2.5645 (0.75); 2.5600 (1.03); 2.5555 (0.74); 2.5509 (0.37); 2.5323 (1.30); 2.5275 (2.21); 2.5188 (29.41); 2.5144 (61.47); 2.5099 (83.77); 2.5054 (59.95); 2.5011 (27.90); 2.4691 (0.57); 2.4645 (0.81); 2.4600 (0.99); 2.4554 (0.72); 2.3414 (0.40); 2.3368 (0.55); 2.3323 (0.42); 2.2867 (1.91); 2.2801 (2.07); 2.2678 (4.04); 2.2614 (3.84); 2.2501 (2.37); 2.2436 (2.18); 1.7945 (0.62); 1.7773 (1.26); 1.7596 (2.65); 1.7510 (0.87); 1.7415 (2.98); 1.7241 (2.67); 1.7046 (1.15); 1.6904 (0.48); 1.3029 (0.41); 1.2929 (0.39); 1.2869 (0.52); 1.2585 (14.74); 1.2429 (15.24); 1.0647 (7.01); 1.0466 (16.00); 1.0284 (6.85); 0.8798 (0.69); 0.8630 (2.19); 0.8454 (0.86)

Example 208, Solvent: DMSO, Spectrometer: 399,95 MHz

10.4914 (1.95); 8.0795 (1.27); 8.0589 (1.49); 7.9534 (0.57); 7.8298 (1.25); 7.8106 (1.73); 7.7902 (1.19); 7.7256 (1.98); 7.7230 (2.57); 7.7192 (1.25); 7.7104 (0.82); 7.7053 (3.47); 7.7015 (2.34); 7.5640 (0.49); 7.5521 (0.37); 7.5457 (1.63); 7.5400 (0.48); 7.5307 (0.88); 7.5274 (1.42); 7.5240 (0.70); 7.4961 (2.40); 7.4926 (1.00); 7.4807 (1.68); 7.4770 (3.06); 7.4634 (0.49); 7.4593 (1.23); 7.4561 (0.67); 7.1404 (1.73); 7.1230 (1.69); 5.3542 (6.07); 3.3300 (53.86); 3.0544 (16.00); 2.8910 (4.71); 2.7324 (3.77); 2.7313 (3.66); 2.5255 (0.57); 2.5206 (0.96); 2.5121 (10.93); 2.5076 (21.56); 2.5030 (28.24); 2.4984 (20.40); 2.4939 (9.59); 2.2748 (3.13); 2.2572 (3.26); 1.7590 (0.35); 1.7501 (0.45); 1.7418 (0.38); 1.7319 (0.32); 1.6732 (1.45); 1.6665 (1.45); 1.6415 (1.86); 1.5830 (0.45); 1.2343 (0.68); 1.2257 (0.72); 1.2014 (0.76); 1.1946 (0.91); 1.1636 (0.87); 1.1335 (0.51); 1.1032 (0.35); 1.0019 (0.38); 0.9960 (0.45); 0.9671 (0.99); 0.9405 (0.81); 0.8758 (0.44); -0.0002 (5.71)
Example 210, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2465 (2.58); 7.9533 (0.56); 7.8237 (0.58); 7.8067 (0.53); 7.8026 (1.81); 7.7856 (3.42); 7.7803 (2.40); 7.7634 (0.64); 7.7593 (0.35); 7.7305 (0.32); 7.7250 (1.97); 7.7223 (2.58); 7.7185 (1.27); 7.7098 (0.81); 7.7046 (3.42); 7.7009 (2.39); 7.5626 (0.48); 7.5507 (0.37); 7.5443 (1.63); 7.5386 (0.50); 7.5293 (0.88); 7.5260 (1.42); 7.5226 (0.73); 7.4951 (2.38); 7.4917 (1.04); 7.4798 (1.66); 7.4760 (3.07); 7.4624 (0.49); 7.4584 (1.23); 7.4551 (0.69); 7.2617 (1.60); 7.2454 (1.83); 7.2098 (0.33); 7.2040 (0.83); 7.1851 (2.07); 7.1664 (1.43); 7.1162 (1.95); 7.1055 (1.55); 7.1013 (1.67); 7.0928 (1.72); 7.0890 (2.12); 7.0848 (1.62); 7.0741 (0.95); 7.0387 (1.16); 7.0200 (0.90); 5.3317 (6.15); 4.4018 (0.68); 4.3848 (0.32); 4.2879 (1.61); 4.2705 (3.66); 4.2531 (1.67); 3.3314 (67.99); 3.0619 (16.00); 2.9517 (0.48); 2.9070 (1.42); 2.8902 (7.30); 2.8724 (1.34); 2.7321 (3.71); 2.7309 (3.66); 2.5250 (0.65); 2.5201 (1.10); 2.5117 (11.88); 2.5072 (23.41); 2.5025 (30.75); 2.4979 (22.38); 2.4934 (10.71); 2.2922 (1.58); 2.2788 (10.11); -0.0002 (6.38)
Example 211, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5300 (2.16); 8.0820 (1.25); 8.0613 (1.47); 7.8411 (1.22); 7.8217 (1.74); 7.8016 (1.11); 7.4233 (1.03); 7.4034 (2.19); 7.3833 (1.59); 7.2856 (1.43); 7.2833 (1.28); 7.2661 (1.17); 7.2639 (0.98); 7.2455 (1.54); 7.2396 (1.97); 7.2354 (1.37); 7.1463 (2.84); 7.1400 (1.14); 7.1382 (1.10); 7.1268 (2.18); 7.1193 (0.92); 5.3602 (5.94); 3.7893 (16.00); 3.3436 (40.59); 3.0438 (14.80); 2.5610 (0.36); 2.5321 (1.09); 2.5187 (16.41); 2.5143 (33.34); 2.5099 (45.01); 2.5054 (32.39); 2.5011 (15.25); 2.4608 (0.40); 2.3960 (1.63); 2.3776 (3.06); 2.3591 (1.76); 1.6129 (0.36); 1.5943 (1.09); 1.5759 (1.51); 1.5581 (1.05); 1.5397 (0.35); 1.3252 (0.38); 1.3092 (0.85); 1.2925 (1.70); 1.2850 (2.49); 1.2777 (2.12); 1.2677 (1.76); 1.2575 (1.37); 1.2472 (0.90); 0.8864 (2.49); 0.8694 (6.22); 0.8516 (2.57)
Example 212, Solvent: DMSO, Spectrometer: 399,95 MHz
12.7329 (1.22); 7.9533 (1.66); 7.7494 (1.84); 7.7465 (2.48); 7.7425 (1.20); 7.7342 (0.74); 7.7290 (3.27); 7.7252 (2.24); 7.6770 (1.30); 7.6745 (1.29); 7.6713 (1.59); 7.6670 (1.88); 7.6652 (1.78); 7.6608 (2.96); 7.6587 (1.90); 7.5685 (0.44); 7.5502 (1.55); 7.5442 (0.47); 7.5356 (0.88); 7.5321 (1.45); 7.5286 (0.72); 7.5079 (2.34); 7.5045 (1.00); 7.4930 (1.48); 7.4889 (2.85); 7.4720 (2.20); 7.4678 (0.80); 7.4624 (0.34); 7.4520 (2.53); 7.4315 (1.35); 7.3830 (3.66); 7.2063 (0.90); 7.2041 (0.98); 7.2000 (0.92); 7.1978 (0.89); 7.1857 (0.79); 7.1832 (0.78); 7.1796 (0.81); 7.1771 (0.72); 5.3863 (5.28); 3.8427 (16.00); 3.3389 (84.95); 3.0183 (15.32); 2.8912 (13.52); 2.7326 (10.94); 2.7314 (10.57); 2.5260 (0.60); 2.5212 (0.97); 2.5126 (11.52); 2.5081 (22.90); 2.5035 (30.01); 2.4989 (21.67); 2.4943 (10.22); -0.0002 (5.68)
Example 213, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4033 (1.18); 7.9526 (1.06); 7.7378 (2.75); 7.7339 (1.35); 7.7253 (0.81); 7.7202 (3.49); 7.7164 (2.47); 7.5661 (0.49); 7.5629 (0.33); 7.5546 (0.35); 7.5477 (1.68); 7.5419 (0.51); 7.5330 (0.94); 7.5297 (1.52); 7.5262 (0.78); 7.5038 (2.55); 7.5006 (1.14); 7.4886 (1.66); 7.4848 (3.17); 7.4714 (0.50); 7.4673 (1.22); 7.4638 (0.70); 7.3316 (4.68); 7.1725 (1.12); 7.1543 (1.28); 7.1436 (0.59); 7.1407 (0.51); 7.1244 (1.16); 7.1045 (0.72); 7.1014 (0.62); 6.8819 (0.97); 6.8636 (1.65); 6.8466 (0.74); 6.8450 (0.74); 6.8173 (1.68); 6.7970 (1.50); 5.3395 (6.05); 4.8670 (7.56); 3.3370 (92.18); 3.0230 (16.00); 2.8901 (8.26); 2.7317 (6.57); 2.7308 (6.65); 2.5249 (0.64); 2.5115 (13.25); 2.5071 (26.45); 2.5025 (34.92); 2.4979 (25.57); 2.4934 (12.40); 2.2229 (10.86); -0.0002 (2.10)
Example 214, Solvent: DMSO, Spectrometer: 300,16 MHz
9.8147 (0.73); 8.1638 (0.91); 7.8000 (0.36); 7.7861 (0.35); 7.7719 (0.62); 7.7626 (0.45); 7.7487 (0.78); 7.7326 (0.75); 7.7087 (0.33); 7.6790 (0.62); 7.6607 (0.76); 7.6492 (0.75); 7.6382 (0.36); 7.6311 (0.69); 7.3100 (0.73); 7.2803 (1.54); 7.2737 (2.64); 7.2706 (2.35); 7.2509 (0.63); 7.1221 (0.49); 7.1190 (0.49); 7.0993 (0.41); 5.2502 (1.74); 5.1466 (0.34); 4.0590 (0.32); 4.0353 (0.33); 2.5332 (0.71); 2.5274 (1.48); 2.5215 (2.02); 2.5155 (1.48); 2.5098 (0.72); 2.0079 (1.37); 1.4982 (1.79); 1.4791 (16.00); 1.3561 (0.34); 1.2163 (0.37); 1.1926 (0.73); 1.1688 (0.36)
Example 215, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2011 (3.15); 7.8365 (0.44); 7.8155 (2.34); 7.8071 (2.56); 7.8010 (5.59); 7.7862 (0.48); 7.5384 (2.33); 7.5234 (0.69); 7.5189 (0.59); 7.5143 (0.99); 7.5111 (1.03); 7.5017 (0.95); 7.3894 (0.34); 7.3699 (2.52); 7.3580 (3.35); 7.3560 (3.24); 7.0972 (1.36); 7.0908 (1.34); 7.0829 (1.18); 7.0765 (1.29); 5.7684 (0.63); 5.3282 (6.96); 4.1125 (2.20); 4.0959 (4.67); 4.0793 (2.24); 3.4034 (2.72); 3.3533 (187.35); 3.3261 (0.66); 3.3033 (2.15); 3.0728 (0.40); 3.0584 (16.00); 2.6788 (0.36); 2.5643 (0.55); 2.5598 (0.76); 2.5553 (0.54); 2.5320 (0.95); 2.5183 (21.78); 2.5142 (44.85); 2.5098 (60.71); 2.5054 (44.01); 2.4688 (0.41); 2.4643 (0.59); 2.4598 (0.70); 2.4552 (0.51); 2.3375 (11.57); 1.6317 (0.47); 1.6147 (1.51); 1.6083 (0.56); 1.5973 (1.94); 1.5776 (1.60); 1.5609 (0.66); 1.4187 (0.34); 1.4000 (1.17); 1.3810 (1.87); 1.3622 (1.88); 1.3440 (1.11); 1.3258 (0.33); 0.9317 (4.32); 0.9134 (8.71); 0.8949 (3.74)
Example 216, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5582 (1.05); 7.9544 (1.11); 7.7470 (0.32); 7.7413 (2.15); 7.7387 (2.76); 7.7347 (1.32); 7.7262 (0.86); 7.7210 (3.62); 7.7172 (2.52); 7.5674 (0.49); 7.5560 (0.36); 7.5491 (1.76); 7.5432 (0.51); 7.5344 (0.97); 7.5310 (1.57); 7.5275 (0.78); 7.5049 (2.60); 7.5016 (1.11); 7.4899 (1.71); 7.4859 (3.25); 7.4721 (0.83); 7.4683 (1.54); 7.4629 (4.55); 7.4574 (1.28); 7.4458 (1.34); 7.4403 (4.55); 7.4316 (0.41); 7.3404 (4.75); 6.9039 (0.43); 6.8952 (4.38); 6.8896 (1.27); 6.8781 (1.27); 6.8725 (4.02); 6.8638 (0.35); 5.3399 (5.85); 5.0656 (0.39); 5.0491 (1.47); 5.0325 (1.49); 5.0160 (0.40); 3.3352 (22.31); 3.0226 (16.00); 3.0128 (0.57); 2.8912 (8.97); 2.7333 (7.30); 2.5220 (0.50); 2.5135 (6.25); 2.5090 (12.45); 2.5044 (16.32); 2.4998 (11.74); 2.4953 (5.52); 1.5486 (5.61); 1.5321 (5.54); -0.0002 (6.50)
Example 217, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7035 (2.17); 8.1584 (1.52); 8.1385 (1.80); 8.0607 (0.41); 8.0534 (3.55); 8.0483 (1.09); 8.0362 (1.12); 8.0310 (3.79); 8.0237 (0.39); 7.9032

(2.27); 7.8982 (0.43); 7.8814 (2.19); 7.8633 (1.17); 7.7391 (1.86); 7.7365 (2.49); 7.7326 (1.22); 7.7239 (0.74); 7.7188 (3.28); 7.7150 (2.28); 7.5676 (0.47); 7.5558 (0.34); 7.5493 (1.59); 7.5436 (0.49); 7.5344 (0.85); 7.5310 (1.40); 7.5276 (0.72); 7.5015 (2.31); 7.4981 (1.00); 7.4862 (1.56); 7.4824 (2.94); 7.4689 (0.47); 7.4648 (1.19); 7.4615 (0.66); 7.3845 (0.61); 7.3625 (0.68); 7.2064 (1.66); 7.1889 (1.60); 7.0537 (0.41); 7.0465 (3.74); 7.0413 (1.12); 7.0350 (0.33); 7.0281 (2.08); 7.0241 (3.79); 7.0167 (0.40); 7.0109 (0.36); 7.0057 (1.09); 6.9765 (0.68); 6.9545 (0.58); 5.4143 (5.66); 3.8499 (0.99); 3.8405 (16.00); 3.8284 (0.59); 3.8236 (5.06); 3.7995 (0.60); 3.7894 (2.83); 3.3430 (69.40); 3.0831 (15.12); 2.9456 (2.95); 2.8910 (2.46); 2.7848 (0.45); 2.7498 (0.58); 2.7325 (1.96); 2.7313 (1.94); 2.5261 (0.61); 2.5213 (0.96); 2.5127 (12.40); 2.5082 (24.80); 2.5036 (32.75); 2.4990 (23.81); 2.4945 (11.31); -0.0002 (2.77)
Example 218, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4625 (2.01); 8.0034 (1.43); 7.9831 (1.88); 7.9533 (0.39); 7.8580 (1.31); 7.8387 (1.79); 7.8185 (1.11); 7.7185 (2.58); 7.7147 (1.24); 7.7058 (0.86); 7.7007 (3.40); 7.6969 (2.40); 7.5632 (0.49); 7.5511 (0.36); 7.5449 (1.63); 7.5393 (0.48); 7.5299 (0.86); 7.5266 (1.40); 7.5232 (0.72); 7.5071 (1.65); 7.5030 (2.25); 7.4932 (2.71); 7.4896 (2.35); 7.4861 (2.95); 7.4836 (2.50); 7.4778 (1.97); 7.4741 (3.20); 7.4605 (0.51); 7.4564 (1.26); 7.4533 (0.72); 7.3952 (0.80); 7.3909 (1.14); 7.3864 (0.48); 7.3738 (3.05); 7.3698 (1.30); 7.3554 (2.17); 7.3495 (0.42); 7.3454 (0.89); 7.3416 (1.60); 7.3378 (0.87); 7.3309 (0.47); 7.3241 (1.43); 7.3059 (0.37); 7.1874 (1.78); 7.1696 (1.70); 5.3745 (6.07); 5.0204 (3.59); 3.3353 (28.56); 3.3316 (77.85); 3.2150 (0.44); 3.0702 (0.39); 3.0548 (16.00); 2.8903 (3.14); 2.7319 (2.49); 2.7309 (2.46); 2.5251 (0.63); 2.5203 (1.02); 2.5118 (13.84); 2.5073 (27.81); 2.5027 (36.70); 2.4981 (26.57); 2.4935 (12.61); 0.0079 (0.46); -0.0002 (13.90); -0.0086 (0.42)
Example 219, Solvent: DMSO, Spectrometer: 399,95 MHz
12.3592 (1.32); 7.9533 (0.68); 7.7409 (1.96); 7.7382 (2.70); 7.7343 (1.37); 7.7258 (0.85); 7.7206 (3.52); 7.7168 (2.52); 7.5664 (0.50); 7.5631 (0.33); 7.5549 (0.36); 7.5480 (1.71); 7.5422 (0.55); 7.5334 (0.96); 7.5299 (1.57); 7.5264 (0.83); 7.5038 (2.57); 7.5005 (1.17); 7.4888 (1.66); 7.4848 (3.19); 7.4714 (0.58); 7.4673 (1.33); 7.4638 (0.78); 7.3323 (4.48); 7.0164 (0.90); 7.0128 (1.01); 6.9962 (1.87); 6.9925 (1.84); 6.9649 (0.89); 6.9599 (1.00); 6.9477 (1.11); 6.9428 (1.33); 6.9275 (0.64); 6.9226 (0.78); 6.8840 (0.56); 6.8792 (0.83); 6.8640 (2.19); 6.8592 (1.79); 6.8513 (1.54); 6.8476 (1.51); 6.8341 (1.13); 6.8304 (1.24); 6.8141 (0.47); 6.8102 (0.46); 5.3384 (5.74); 4.9686 (0.39); 4.9521 (1.50); 4.9354 (1.53); 4.9188 (0.43); 3.7803 (15.50); 3.3322 (39.87); 3.0186 (16.00); 2.8903 (5.50); 2.7322 (4.29); 2.7310 (4.44); 2.5254 (0.43); 2.5206 (0.68); 2.5120 (8.09); 2.5075 (16.53); 2.5029 (22.20); 2.4983 (16.46); 2.4938 (8.35); 1.5410 (5.49); 1.5244 (5.58); -0.0002 (4.39)
Example 220, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7516 (2.80); 7.7338 (3.40); 7.7300 (2.55); 7.5760 (0.59); 7.5729 (0.47); 7.5645 (0.53); 7.5576 (1.83); 7.5519 (0.74); 7.5428 (1.18); 7.5396 (1.71); 7.5363 (1.09); 7.5131 (3.48); 7.5098 (2.53); 7.4980 (2.72); 7.4941 (4.04); 7.4868 (1.96); 7.4809 (1.58); 7.4765 (2.09); 7.4665 (2.66); 7.4470 (2.14); 7.3462 (2.33); 7.3286 (2.42); 5.7603 (5.19); 5.3835 (3.93); 4.0432 (0.38); 4.0253 (0.38); 3.3241 (11.73); 3.2913 (0.73); 3.0156 (16.00); 2.5157 (10.03); 2.5114 (19.41); 2.5069 (25.78); 2.5025 (18.91); 2.4982 (9.74); 1.9934 (1.62); 1.2390 (0.35); 1.1972 (0.47); 1.1794 (0.87); 1.1616 (0.44)
Example 221, Solvent: DMSO, Spectrometer: 399,95 MHz
9.7726 (1.32); 8.0140 (1.09); 7.9940 (1.36); 7.8377 (0.93); 7.8186 (1.24); 7.7982 (0.83); 7.7246 (1.90); 7.7207 (0.96); 7.7120 (0.61); 7.7068 (2.55); 7.7030 (1.73); 7.5640 (0.34); 7.5457 (1.16); 7.5400 (0.39); 7.5308 (0.62); 7.5274 (1.00); 7.5241 (0.54); 7.4960 (1.77); 7.4927 (0.77); 7.4806 (1.22); 7.4769 (2.26); 7.4633 (0.36); 7.4592 (0.90); 7.4560 (0.51); 7.1523 (1.24); 7.1347 (1.19); 5.3791 (4.39); 3.3293 (39.08); 3.0881 (0.67); 3.0728 (10.99); 2.8909 (1.10); 2.7321 (0.82); 2.7314 (0.83); 2.5252 (0.36); 2.5204 (0.60); 2.5119 (7.76); 2.5074 (15.47); 2.5028 (20.42); 2.4982 (14.82); 2.4937 (7.08); 1.6926 (0.46); 1.6739 (1.57); 1.6552 (1.66); 1.6367 (0.54); 1.2342 (0.41); 1.1827 (16.00); 0.8759 (0.37); 0.7918 (1.95); 0.7734 (4.41); 0.7546 (1.80); -0.0002 (5.77)
Example 222, Solvent: DMSO, Spectrometer: 399,95 MHz
8.5738 (2.41); 7.9525 (1.26); 7.9479 (1.67); 7.9270 (2.16); 7.8491 (1.43); 7.8301 (1.83); 7.8097 (1.07); 7.6954 (2.56); 7.6917 (1.25); 7.6822 (3.74); 7.6772 (5.94); 7.6741 (2.68); 7.6205 (2.37); 7.5997 (3.24); 7.5619 (0.50); 7.5497 (0.38); 7.5436 (1.66); 7.5380 (0.48); 7.5285 (0.88); 7.5252 (1.38); 7.5219 (0.68); 7.4951 (2.62); 7.4901 (3.70); 7.4744 (3.09); 7.4716 (3.48); 7.4692 (2.48); 7.4579 (0.52); 7.4539 (1.24); 7.4508 (0.69); 7.1560 (1.77); 7.1376 (1.72); 5.3008 (6.18); 3.3416 (164.31); 3.0054 (16.00); 2.8912 (9.12); 2.7323 (7.55); 2.5258 (0.81); 2.5209 (1.29); 2.5124 (15.83); 2.5079 (31.43); 2.5033 (41.17); 2.4987 (29.73); 2.4942 (14.01); 1.6912 (0.88); 1.6804 (2.43); 1.6730 (2.57); 1.6628 (0.91); 1.2167 (1.03); 1.2064 (2.45); 1.1990 (2.45); 1.1883 (0.87); -0.0002 (4.60)
Example 223, Solvent: DMSO, Spectrometer: 400,13 MHz
10.0714 (2.63); 7.8267 (0.37); 7.8057 (2.13); 7.7975 (2.44); 7.7913 (5.42); 7.7766 (0.48); 7.5376 (2.16); 7.5222 (0.62); 7.5175 (0.54); 7.5136 (0.92); 7.5102 (0.98); 7.5046 (0.59); 7.5008 (0.90); 7.4962 (0.66); 7.3885 (0.33); 7.3694 (2.27); 7.3634 (1.53); 7.3575 (3.16); 7.3550 (3.12); 7.0922 (1.26); 7.0856 (1.22); 7.0779 (1.12); 7.0714 (1.20); 5.7640 (3.25); 5.3237 (6.55); 4.9274 (0.43); 4.9146 (0.58); 4.9121 (0.58); 4.9061 (0.55); 4.8993 (0.56); 4.8933 (0.59); 4.8780 (0.44); 3.3275 (11.77); 3.3047 (0.75); 3.0654 (16.00); 2.5322 (0.33); 2.5187 (7.70); 2.5143 (15.83); 2.5098 (21.48); 2.5053 (15.33); 2.5008 (7.18); 2.3394 (10.43); 1.6989 (0.49); 1.6803 (0.60); 1.6636 (0.57); 1.6472 (0.36); 1.5939 (0.54); 1.5791 (0.43); 1.5725 (0.56); 1.5592 (0.89); 1.5448 (0.60); 1.5382 (0.70); 1.5234 (0.54); 1.3592 (0.64); 1.3469 (0.71); 1.3391 (0.60); 1.3259 (0.94); 1.3126 (0.53); 1.3048 (0.55); 1.2923 (0.52); 1.2477 (0.81); 1.2371 (6.90); 1.2216 (6.73); 0.9042 (9.66); 0.9030 (9.64); 0.8876 (9.68); 0.8652 (0.97); 0.8475 (0.40)
Example 224, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1980 (3.39); 7.8358 (0.41); 7.8147 (2.34); 7.8062 (2.58); 7.8002 (5.62); 7.7854 (0.50); 7.5391 (2.45); 7.5237 (0.72); 7.5147 (1.02); 7.5115 (1.07); 7.5019 (1.01); 7.3891 (0.34); 7.3697 (2.62); 7.3573 (3.50); 7.0973 (1.39); 7.0910 (1.36); 7.0829 (1.22); 7.0766 (1.33); 5.7683 (4.33); 5.3284 (7.17); 4.1036 (2.10); 4.0868 (4.54); 4.0701 (2.17); 3.4000 (1.14); 3.3497 (84.51); 3.3260 (0.53); 3.2994 (1.10); 3.0734 (0.39); 3.0591 (16.00); 2.5646 (0.34); 2.5601 (0.45); 2.5319 (0.57); 2.5141 (30.36); 2.5097 (41.01); 2.5054 (29.94); 2.4686 (0.34); 2.4639 (0.48); 2.4595 (0.56); 2.4550 (0.38); 2.3375 (11.99); 1.9964 (0.43); 1.6310 (1.02); 1.6137 (1.65); 1.5967 (1.19); 1.5796 (0.38); 1.3485 (1.17); 1.3380 (2.06); 1.3307 (4.06); 1.3216 (3.23); 1.3127 (2.74); 1.2510 (0.54); 0.9036 (2.02); 0.8863 (5.30); 0.8686 (1.84); 0.8643 (1.22); 0.8462 (0.38)

Example 225, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1956 (2.22); 7.8322 (0.50); 7.8112 (1.95); 7.7954 (3.65); 7.7935 (3.12); 7.7773 (0.55); 7.7256 (2.01); 7.7229 (2.56); 7.7191 (1.23); 7.7104 (0.83); 7.7052 (3.34); 7.7015 (2.26); 7.5628 (0.49); 7.5510 (0.39); 7.5445 (1.63); 7.5387 (0.49); 7.5296 (0.90); 7.5262 (1.42); 7.5228 (0.72); 7.4959 (2.39); 7.4925 (1.00); 7.4806 (1.70); 7.4768 (3.04); 7.4633 (0.51); 7.4591 (1.21); 7.4559 (0.65); 7.1031 (1.30); 7.0981 (1.30); 7.0874 (1.19); 7.0824 (1.22); 5.3352 (6.27); 3.8862 (4.75); 3.8695 (4.79); 3.3373 (121.73); 3.0652 (16.00); 2.8909 (2.35); 2.7322 (1.87); 2.7312 (1.83); 2.5254 (0.77); 2.5121 (14.62); 2.5076 (29.05); 2.5030 (38.16); 2.4984 (27.63); 2.4938 (13.18); 1.9416 (0.40); 1.9248 (0.83); 1.9081 (1.06); 1.8913 (0.85); 1.8746 (0.43); 1.2347 (0.32); 0.9272 (14.67); 0.9104 (14.23); 0.8980 (0.66); -0.0002 (6.10)
Example 226, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2218 (3.02); 7.8377 (0.71); 7.8167 (1.86); 7.7995 (2.39); 7.7932 (2.26); 7.7901 (2.53); 7.7724 (0.83); 7.7692 (0.58); 7.7302 (2.78); 7.7171 (0.84); 7.7122 (3.46); 7.7085 (2.45); 7.5686 (0.50); 7.5656 (0.32); 7.5566 (0.40); 7.5503 (1.73); 7.5447 (0.53); 7.5353 (0.95); 7.5321 (1.45); 7.5289 (0.75); 7.5016 (2.50); 7.4859 (1.73); 7.4823 (3.19); 7.4686 (0.49); 7.4647 (1.20); 7.4616 (0.70); 7.1152 (1.49); 7.1120 (1.51); 7.0981 (1.44); 7.0949 (1.40); 5.7683 (0.91); 5.3344 (6.56); 4.9204 (0.64); 4.9051 (1.36); 4.8896 (1.37); 4.8743 (0.63); 3.4000 (1.26); 3.3505 (106.77); 3.3008 (1.03); 3.0791 (16.00); 2.9380 (1.30); 2.9314 (3.01); 2.9249 (1.33); 2.5636 (0.42); 2.5591 (0.59); 2.5546 (0.47); 2.5499 (0.35); 2.5375 (2.16); 2.5314 (2.82); 2.5183 (17.62); 2.5142 (34.59); 2.5097 (45.30); 2.5052 (32.26); 2.5009 (15.00); 2.4645 (0.37); 2.4599 (0.48); 2.4556 (0.38); 1.3707 (0.74); 1.3200 (6.79); 1.3042 (6.76)
Example 227, Solvent: DMSO, Spectrometer: 399,95 MHz
10.3769 (2.12); 8.0203 (1.54); 8.0001 (2.07); 7.9530 (0.94); 7.8853 (1.40); 7.8659 (1.92); 7.8458 (1.15); 7.7280 (2.72); 7.7151 (0.85); 7.7101 (3.50); 7.7063 (2.50); 7.5663 (0.50); 7.5631 (0.33); 7.5543 (0.38); 7.5479 (1.73); 7.5423 (0.51); 7.5329 (0.91); 7.5297 (1.46); 7.5264 (0.77); 7.4980 (2.53); 7.4824 (1.75); 7.4788 (3.27); 7.4651 (0.54); 7.4611 (1.29); 7.4580 (0.74); 7.3286 (0.71); 7.3242 (0.87); 7.3064 (1.40); 7.2330 (0.75); 7.2286 (0.63); 7.2166 (2.17); 7.2123 (3.66); 7.2078 (2.41); 7.2021 (2.00); 7.1943 (3.30); 7.1863 (0.89); 7.1709 (0.38); 5.4621 (2.62); 5.3902 (6.51); 4.3243 (0.42); 4.3113 (0.77); 4.2972 (0.89); 4.2828 (0.88); 4.2702 (0.49); 3.9033 (0.48); 3.8924 (0.66); 3.8846 (0.59); 3.8744 (0.88); 3.8645 (0.55); 3.8567 (0.57); 3.8458 (0.46); 3.3316 (69.84); 3.0853 (0.63); 3.0755 (16.00); 2.9850 (0.34); 2.9798 (0.33); 2.9566 (0.44); 2.9434 (0.54); 2.9387 (0.53); 2.9261 (0.38); 2.8903 (7.59); 2.8083 (0.40); 2.7962 (0.71); 2.7836 (0.44); 2.7549 (0.48); 2.7313 (6.08); 2.5248 (0.66); 2.5115 (13.88); 2.5070 (27.45); 2.5024 (36.12); 2.4978 (26.26); 2.4934 (12.61); -0.0002 (8.08)
Example 228, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3312 (2.87); 7.8479 (0.61); 7.8269 (1.78); 7.8098 (2.61); 7.8066 (2.36); 7.8027 (2.46); 7.7855 (0.71); 7.7818 (0.44); 7.4213 (1.02); 7.4013 (2.19); 7.3813 (1.58); 7.2835 (1.46); 7.2813 (1.28); 7.2640 (1.21); 7.2619 (1.00); 7.2465 (1.57); 7.2407 (1.98); 7.2365 (1.36); 7.1432 (1.10); 7.1415 (1.15); 7.1369 (1.03); 7.1352 (0.99); 7.1227 (2.32); 7.1200 (2.09); 7.1060 (1.36); 7.1023 (1.31); 5.7685 (0.68); 5.3409 (5.98); 4.1955 (1.97); 4.1789 (4.28); 4.1622 (1.97); 3.7894 (16.00); 3.3943 (0.40); 3.3449 (25.89); 3.0753 (0.38); 3.0602 (14.66); 2.9234 (1.30); 2.9168 (2.93); 2.9102 (1.37); 2.5796 (1.18); 2.5729 (1.25); 2.5630 (2.80); 2.5563 (2.68); 2.5463 (1.26); 2.5396 (1.16); 2.5322 (0.65); 2.5186 (9.84); 2.5143 (19.78); 2.5099 (26.44); 2.5054 (18.87); 2.5011 (8.77); 2.4605 (0.33)
Example 229, Solvent: DMSO, Spectrometer: 399,95 MHz
12.3982 (0.67); 7.9527 (0.74); 7.7410 (2.02); 7.7384 (2.73); 7.7344 (1.32); 7.7260 (0.80); 7.7208 (3.54); 7.7170 (2.45); 7.5667 (0.50); 7.5634 (0.33); 7.5553 (0.35); 7.5483 (1.74); 7.5425 (0.52); 7.5337 (0.95); 7.5303 (1.58); 7.5268 (0.78); 7.5048 (2.58); 7.5013 (1.09); 7.4897 (1.64); 7.4857 (3.18); 7.4724 (0.49); 7.4682 (1.26); 7.4647 (0.69); 7.3301 (4.81); 7.1016 (2.47); 7.0812 (2.92); 6.8624 (0.45); 6.8550 (3.93); 6.8498 (1.19); 6.8384 (1.10); 6.8334 (3.31); 5.3406 (5.96); 4.7940 (7.63); 3.6954 (0.43); 3.3486 (86.86); 3.0357 (0.38); 3.0206 (16.00); 3.0111 (0.61); 2.8904 (6.12); 2.7322 (4.75); 2.7312 (4.80); 2.5261 (0.45); 2.5213 (0.71); 2.5127 (8.80); 2.5082 (17.65); 2.5036 (23.41); 2.4990 (16.97); 2.4944 (8.04); 2.2230 (10.05); -0.0002 (1.03)
Example 230, Solvent: DMSO, Spectrometer: 399,95 MHz
10.9090 (2.21); 8.0883 (1.25); 8.0676 (1.49); 7.8495 (1.30); 7.8301 (1.82); 7.8100 (1.21); 7.7200 (2.78); 7.7162 (1.39); 7.7070 (0.93); 7.7022 (3.52); 7.6984 (2.50); 7.5604 (0.50); 7.5573 (0.33); 7.5484 (0.38); 7.5419 (1.68); 7.5364 (0.51); 7.5271 (0.91); 7.5238 (1.45); 7.5205 (0.76); 7.4927 (2.53); 7.4772 (1.75); 7.4735 (3.21); 7.4599 (0.51); 7.4558 (1.25); 7.4527 (0.73); 7.3123 (1.16); 7.2942 (3.15); 7.2753 (2.45); 7.2162 (1.18); 7.2132 (0.91); 7.1978 (1.71); 7.1927 (0.63); 7.1817 (2.96); 7.1784 (3.48); 7.1607 (2.43); 7.1520 (2.10); 7.1328 (1.81); 5.3541 (6.10); 3.3297 (58.71); 3.0519 (16.00); 2.8903 (1.67); 2.7311 (1.34); 2.5248 (0.69); 2.5115 (12.61); 2.5070 (24.94); 2.5025 (32.88); 2.4979 (24.08); 2.4934 (11.66); 2.4261 (0.35); 2.4161 (0.60); 2.4105 (0.54); 2.4004 (0.80); 2.3935 (0.94); 2.3892 (0.84); 2.3775 (1.29); 2.3694 (0.71); 2.3565 (0.66); 1.5034 (0.51); 1.4929 (0.72); 1.4904 (0.69); 1.4804 (0.96); 1.4705 (0.67); 1.4678 (0.69); 1.4574 (0.52); 1.3763 (0.56); 1.3660 (0.62); 1.3602 (0.69); 1.3559 (0.80); 1.3502 (0.74); 1.3460 (0.60); 1.3399 (0.68); 1.3297 (0.48); 0.8756 (0.43); -0.0002 (6.50)
Example 231, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7963 (2.26); 8.0278 (1.31); 8.0071 (1.72); 7.9529 (0.79); 7.8784 (1.37); 7.8590 (1.92); 7.8389 (1.17); 7.7282 (2.93); 7.7245 (1.59); 7.7104 (3.62); 7.7067 (2.63); 7.5691 (0.52); 7.5660 (0.37); 7.5570 (0.41); 7.5505 (1.74); 7.5452 (0.57); 7.5357 (0.96); 7.5325 (1.52); 7.5293 (0.84); 7.5006 (2.64); 7.4851 (1.91); 7.4814 (3.34); 7.4613 (2.30); 7.4575 (1.90); 7.4416 (1.73); 7.4377 (1.73); 7.2908 (0.73); 7.2868 (0.73); 7.2700 (1.27); 7.2685 (1.29); 7.2663 (1.15); 7.2514 (0.99); 7.2474 (0.93); 7.2101 (1.99); 7.1916 (1.89); 7.0172 (1.50); 7.0144 (1.78); 6.9963 (1.41); 6.9935 (1.50); 6.9875 (1.16); 6.9843 (0.97); 6.9681 (1.66); 6.9652 (1.45); 6.9492 (0.86); 6.9460 (0.79); 5.3872 (6.51); 5.1665 (0.33); 5.1503 (1.11); 5.1337 (1.11); 5.1174 (0.35); 3.3803 (0.39); 3.3414 (130.53); 3.0658 (16.00); 3.0355 (0.46); 2.8907 (6.04); 2.7314 (5.07); 2.5258 (0.73); 2.5123 (14.56); 2.5080 (28.22); 2.5035 (36.82); 2.4989 (27.18); 2.4945 (13.39); 1.5828 (5.84); 1.5664 (5.80); -0.0002 (1.18)
Example 232, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7787 (1.95); 8.0189 (1.31); 7.9983 (1.69); 7.9532 (0.55); 7.8653 (1.35); 7.8461 (1.83); 7.8258 (1.16); 7.7272 (2.57); 7.7234 (1.25); 7.7145 (0.74); 7.7094 (3.36); 7.7057 (2.40); 7.5689 (0.48); 7.5569 (0.35); 7.5506 (1.66); 7.5449 (0.47); 7.5356 (0.85); 7.5323 (1.41); 7.5289 (0.72); 7.5003 (2.42); 7.4970 (1.03); 7.4848 (1.62); 7.4811 (3.12); 7.4675 (0.47); 7.4635 (1.23); 7.4603 (0.70); 7.2993 (1.74); 7.2941 (0.64); 7.2795

(2.38); 7.2775 (2.63); 7.2642 (0.73); 7.2592 (2.22); 7.1981 (1.82); 7.1803 (1.74); 6.9484 (0.98); 6.9463 (0.76); 6.9304 (2.22); 6.9270 (3.58); 6.9243 (3.02); 6.9093 (1.68); 6.9048 (3.02); 5.3845 (6.13); 5.0933 (0.33); 5.0770 (1.15); 5.0605 (1.16); 5.0441 (0.33); 3.3446 (117.32); 3.0603 (16.00); 2.8909 (4.49); 2.7323 (3.65); 2.7313 (3.50); 2.5261 (0.52); 2.5214 (0.82); 2.5128 (11.33); 2.5083 (23.02); 2.5037 (30.58); 2.4991 (22.28); 2.4946 (10.69); 1.5360 (5.77); 1.5196 (5.72); -0.0002 (0.43)
Example 233, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8433 (1.76); 7.8017 (0.42); 7.7807 (1.17); 7.7635 (1.52); 7.7578 (1.37); 7.7544 (1.57); 7.7368 (0.69); 7.7329 (1.58); 7.7303 (1.75); 7.7264 (0.84); 7.7177 (0.51); 7.7125 (2.21); 7.7088 (1.56); 7.5515 (1.08); 7.5458 (0.33); 7.5366 (0.58); 7.5332 (0.95); 7.5299 (0.48); 7.5030 (1.56); 7.4997 (0.69); 7.4876 (1.05); 7.4839 (1.99); 7.4662 (0.78); 7.4630 (0.45); 7.0807 (0.91); 7.0773 (0.93); 7.0637 (0.88); 7.0603 (0.87); 5.7638 (0.90); 5.3261 (4.14); 3.3823 (0.95); 3.3324 (57.48); 3.3086 (0.49); 3.2824 (0.64); 3.0700 (10.61); 2.5275 (0.43); 2.5189 (6.42); 2.5144 (13.43); 2.5099 (18.41); 2.5054 (13.05); 2.5009 (6.05); 1.7497 (0.75); 1.7375 (0.59); 1.7292 (0.73); 1.7186 (0.63); 1.7080 (0.96); 1.4418 (16.00); 1.4017 (0.48); 1.3916 (0.52); 1.3827 (0.66); 1.3716 (1.01); 1.3611 (0.63); 1.3542 (0.40); 1.3419 (0.43); 0.9098 (1.87); 0.8917 (3.99); 0.8732 (1.65)
Example 234, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5653 (1.63); 7.6272 (1.07); 7.6216 (1.06); 7.6183 (0.95); 7.6151 (1.26); 7.6116 (0.90); 7.6064 (0.94); 7.5956 (2.93); 7.5705 (0.78); 7.5564 (0.88); 7.5503 (1.17); 7.5360 (1.22); 7.5309 (0.70); 7.5152 (0.52); 7.4333 (0.58); 7.4306 (0.62); 7.4271 (0.56); 7.4243 (0.54); 7.4096 (1.04); 7.4050 (0.96); 7.3916 (4.93); 7.0153 (1.26); 6.9969 (1.68); 6.9946 (1.59); 6.9161 (0.66); 6.9085 (0.87); 6.9015 (0.93); 6.8938 (1.45); 6.8896 (0.57); 6.8817 (0.73); 6.8746 (1.81); 6.8634 (4.76); 6.8593 (2.94); 6.8484 (1.09); 6.8444 (0.87); 5.7631 (5.16); 5.3684 (5.98); 5.1570 (1.07); 5.1486 (1.99); 5.1388 (1.10); 4.4380 (2.18); 4.4330 (2.40); 4.4277 (2.64); 3.3982 (3.66); 3.3484 (263.44); 3.2987 (2.86); 3.0116 (16.00); 2.6771 (0.37); 2.5622 (0.63); 2.5578 (0.87); 2.5533 (0.67); 2.5486 (0.42); 2.5303 (1.19); 2.5168 (23.67); 2.5125 (47.68); 2.5081 (63.56); 2.5037 (45.37); 2.4994 (21.41); 2.4630 (0.55); 2.4585 (0.70); 2.4539 (0.50); 2.3350 (0.37)
Example 235, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5169 (2.26); 8.0834 (1.34); 8.0627 (1.59); 7.8340 (1.29); 7.8147 (1.83); 7.7945 (1.19); 7.7230 (2.73); 7.7101 (0.89); 7.7051 (3.54); 7.7014 (2.49); 7.5638 (0.51); 7.5607 (0.33); 7.5519 (0.39); 7.5455 (1.69); 7.5399 (0.52); 7.5305 (0.92); 7.5272 (1.45); 7.5239 (0.75); 7.4957 (2.49); 7.4801 (1.78); 7.4765 (3.19); 7.4628 (0.52); 7.4588 (1.25); 7.4557 (0.72); 7.1443 (1.87); 7.1264 (1.80); 5.3554 (6.40); 5.0926 (0.44); 5.0895 (0.38); 5.0780 (0.74); 5.0747 (0.89); 5.0603 (0.39); 5.0572 (0.44); 3.3279 (52.28); 3.0528 (16.00); 2.5251 (0.72); 2.5118 (12.64); 2.5073 (24.46); 2.5028 (31.75); 2.4982 (23.07); 2.4937 (11.05); 2.3968 (0.66); 2.3814 (0.71); 2.3618 (0.95); 2.3463 (1.02); 2.2453 (0.94); 2.2253 (1.06); 2.2104 (0.64); 2.1902 (0.73); 1.9797 (0.75); 1.9619 (1.27); 1.9440 (1.28); 1.9270 (0.84); 1.9093 (0.43); 1.6557 (0.55); 1.6297 (6.45); 1.5525 (7.37); 1.3547 (0.33); 1.3376 (0.44); 1.3332 (0.36); 1.3208 (0.49); 1.3150 (0.44); 1.3068 (0.36); 1.2996 (0.41); 1.1983 (0.48); 1.1857 (0.51); 1.1785 (0.43); 1.1718 (0.32); 1.1637 (0.48); 0.9019 (5.82); 0.8853 (5.69); 0.0079 (0.36); -0.0002 (8.83)
Example 236, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.6688 (4.49); 7.6461 (5.37); 7.4378 (7.28); 7.4124 (7.11); 7.3906 (3.09); 7.2619 (12.61); 6.5633 (2.62); 6.5419 (2.50); 6.3065 (2.64); 6.2784 (2.51); 5.2285 (10.11); 4.4256 (1.25); 3.7686 (1.43); 3.1067 (16.00); 2.0868 (0.99); 1.7385 (3.38); 1.6955 (5.73); 1.6524 (4.11); 1.4633 (1.09); 1.4367 (2.16); 1.4101 (2.73); 1.3263 (1.92); 1.2933 (2.12); 1.2537 (2.36); 1.2075 (2.41); 1.1744 (12.09); 1.1557 (10.90); 0.9880 (0.76); 0.9493 (1.94); 0.9057 (2.30); 0.8694 (1.58); -0.0002 (8.47)
Example 237, Solvent: DMSO, Spectrometer: 399,95 MHz
10.9450 (1.79); 8.0365 (0.79); 8.0157 (1.02); 7.9532 (0.86); 7.9012 (1.37); 7.8819 (1.86); 7.8617 (1.11); 7.7234 (2.67); 7.7197 (1.31); 7.7106 (0.79); 7.7056 (3.43); 7.7018 (2.42); 7.5661 (0.48); 7.5541 (0.35); 7.5477 (1.63); 7.5421 (0.49); 7.5327 (0.86); 7.5295 (1.40); 7.5261 (0.74); 7.4977 (2.43); 7.4822 (1.67); 7.4785 (3.12); 7.4649 (0.48); 7.4609 (1.21); 7.4578 (0.71); 7.2230 (1.81); 7.2048 (1.73); 5.3795 (6.53); 3.6620 (0.59); 3.6342 (1.83); 3.6063 (1.88); 3.5784 (0.64); 3.3291 (63.12); 3.0552 (16.00); 2.8907 (6.74); 2.7312 (5.41); 2.5251 (0.64); 2.5117 (12.44); 2.5072 (24.80); 2.5027 (32.66); 2.4981 (23.87); 2.4936 (11.50); 0.0080 (0.36); -0.0002 (10.95); -0.0085 (0.34)
Example 238, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2540 (2.69); 7.9534 (0.87); 7.8225 (0.71); 7.8015 (1.78); 7.7841 (2.12); 7.7740 (2.08); 7.7714 (2.26); 7.7533 (0.82); 7.7504 (0.62); 7.7227 (2.70); 7.7099 (0.85); 7.7049 (3.49); 7.7011 (2.48); 7.5631 (0.51); 7.5600 (0.33); 7.5513 (0.38); 7.5448 (1.71); 7.5392 (0.52); 7.5299 (1.01); 7.5266 (1.51); 7.5233 (0.77); 7.4991 (4.62); 7.4958 (3.54); 7.4781 (6.63); 7.4631 (0.53); 7.4590 (1.26); 7.4558 (0.73); 7.2932 (4.02); 7.2767 (1.37); 7.2722 (3.31); 7.2602 (0.56); 7.2438 (0.49); 7.1047 (1.54); 7.1018 (1.53); 7.0873 (1.51); 7.0844 (1.44); 5.3312 (6.46); 4.2908 (1.61); 4.2741 (3.64); 4.2575 (1.66); 3.3302 (61.62); 3.0610 (16.00); 2.9281 (1.43); 2.9115 (2.95); 2.8907 (7.28); 2.7320 (5.51); 2.5252 (0.69); 2.5203 (1.10); 2.5118 (13.33); 2.5073 (26.35); 2.5028 (34.64); 2.4982 (25.35); 2.4937 (12.29); 1.2348 (0.35); -0.0002 (7.26)
Example 239, Solvent: DMSO, Spectrometer: 399,95 MHz
11.9040 (0.97); 7.9531 (0.94); 7.7274 (2.91); 7.7146 (0.91); 7.7096 (3.62); 7.7058 (2.54); 7.5600 (0.51); 7.5570 (0.33); 7.5486 (0.41); 7.5417 (1.78); 7.5360 (0.53); 7.5269 (1.04); 7.5237 (1.56); 7.5203 (0.80); 7.4973 (2.67); 7.4819 (1.89); 7.4781 (3.33); 7.4646 (0.59); 7.4606 (1.30); 7.4571 (0.81); 7.4380 (0.67); 7.4328 (1.09); 7.4264 (0.64); 7.4159 (4.82); 7.4127 (5.70); 7.3966 (3.78); 7.3915 (1.18); 7.3817 (1.87); 7.3773 (1.49); 7.3713 (1.12); 7.3661 (1.38); 7.3596 (0.79); 7.3494 (1.08); 7.2723 (4.67); 5.2853 (6.47); 5.2229 (8.16); 5.1615 (0.81); 3.3291 (51.70); 3.0358 (0.47); 3.0245 (16.00); 2.8903 (7.20); 2.7315 (5.92); 2.5245 (0.76); 2.5112 (13.86); 2.5068 (26.69); 2.5023 (34.48); 2.4977 (24.97); 2.4933 (11.96); 0.0078 (0.44); -0.0002 (11.95); -0.0085 (0.41)
Example 240, Solvent: DMSO, Spectrometer: 399,95 MHz
9.9471 (2.07); 8.0542 (1.28); 8.0335 (1.59); 7.8817 (1.33); 7.8623 (1.94); 7.8422 (1.14); 7.7245 (2.73); 7.7067 (3.47); 7.7030 (2.51); 7.5643 (0.51); 7.5611 (0.34); 7.5523 (0.38); 7.5460 (1.68); 7.5403 (0.54); 7.5310 (0.95); 7.5277 (1.46); 7.5244 (0.79); 7.4962 (2.52); 7.4806 (1.84); 7.4770 (3.22); 7.4633 (0.54); 7.4593 (1.26); 7.4563 (0.76); 7.1912 (1.89); 7.1730 (1.82); 5.3689 (6.74); 4.0933 (8.50); 3.5200 (2.54); 3.5037 (5.27); 3.4873 (2.59); 3.3292 (45.74); 3.0719 (16.00); 2.5251 (0.59); 2.5117 (11.15); 2.5073 (21.82); 2.5028 (28.55); 2.4982 (21.20); 2.4939 (10.54); 1.5736 (0.45); 1.5563 (1.48); 1.5500 (0.55); 1.5397 (1.95); 1.5199 (1.60); 1.5036 (0.68); 1.3975 (0.36); 1.3791 (1.22); 1.3599 (1.86);

1.3410 (1.85); 1.3231 (1.07); 0.9122 (4.40); 0.8938 (8.76); 0.8753 (3.72); -0.0002 (6.95)
Example 241, Solvent: DMSO, Spectrometer: 400,13 MHz
11.0140 (2.97); 7.8384 (4.05); 7.8278 (4.28); 7.7290 (2.77); 7.7111 (3.50); 7.7074 (2.47); 7.5694 (0.51); 7.5573 (0.43); 7.5511 (1.72); 7.5455 (0.54); 7.5360 (0.97); 7.5328 (1.47); 7.5013 (2.53); 7.4857 (1.86); 7.4822 (3.20); 7.4645 (1.38); 7.1630 (1.30); 7.1526 (2.13); 7.1421 (1.21); 5.3565 (6.72); 3.3941 (2.10); 3.3443 (171.35); 3.2941 (1.27); 3.0619 (16.00); 2.7990 (4.33); 2.7824 (4.46); 2.6813 (0.43); 2.6768 (0.57); 2.6724 (0.42); 2.5619 (0.91); 2.5575 (1.22); 2.5531 (0.95); 2.5300 (2.04); 2.5164 (37.35); 2.5122 (74.24); 2.5077 (98.29); 2.5033 (70.37); 2.4991 (33.42); 2.4575 (0.92); 2.3391 (0.46); 2.3346 (0.62); 2.3301 (0.45); 1.9948 (0.65); 1.8223 (0.43); 1.8056 (0.89); 1.7889 (1.12); 1.7723 (0.88); 1.7557 (0.46); 1.2508 (1.44); 1.1793 (0.36); 0.9545 (15.44); 0.9379 (14.90); 0.8796 (0.72); 0.8630 (2.05); 0.8454 (0.82)
Example 242, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3887 (3.15); 7.8550 (0.86); 7.8342 (1.87); 7.8162 (2.05); 7.7966 (2.48); 7.7948 (2.52); 7.7760 (1.23); 7.7282 (2.99); 7.7104 (3.74); 7.7067 (2.70); 7.5669 (0.57); 7.5639 (0.42); 7.5549 (0.54); 7.5487 (1.82); 7.5431 (0.67); 7.5336 (1.15); 7.5305 (1.62); 7.5272 (0.92); 7.5000 (2.72); 7.4843 (2.16); 7.4809 (3.42); 7.4670 (0.76); 7.4632 (1.41); 7.4601 (0.87); 7.1345 (1.79); 7.1168 (1.76); 5.4326 (0.42); 5.4274 (0.42); 5.4159 (1.21); 5.4107 (1.23); 5.3992 (1.28); 5.3939 (1.27); 5.3824 (0.50); 5.3771 (0.46); 5.3418 (6.76); 3.5850 (3.39); 3.5798 (3.32); 3.3971 (1.47); 3.3474 (119.76); 3.2970 (1.75); 3.0759 (16.00); 2.5573 (0.96); 2.5531 (0.92); 2.5160 (20.07); 2.5121 (37.07); 2.5077 (47.62); 2.5033 (34.71); 2.4669 (1.05); 2.4619 (1.10); 2.4575 (1.10); 1.4870 (7.01); 1.4702 (7.01)
Example 243, Solvent: DMSO, Spectrometer: 399,95 MHz
11.0967 (2.79); 8.1639 (0.70); 8.1437 (0.81); 7.9529 (1.48); 7.9305 (1.31); 7.9110 (2.06); 7.8911 (1.16); 7.7277 (3.18); 7.7097 (3.91); 7.7062 (3.10); 7.6940 (1.91); 7.6920 (1.87); 7.6743 (2.06); 7.6722 (1.98); 7.5647 (0.57); 7.5464 (1.96); 7.5386 (1.44); 7.5335 (1.77); 7.5319 (1.78); 7.5283 (1.98); 7.5250 (1.41); 7.5197 (2.13); 7.5155 (2.11); 7.4974 (2.92); 7.4786 (4.49); 7.4634 (2.81); 7.4607 (3.30); 7.4449 (1.16); 7.4423 (1.04); 7.4186 (1.26); 7.4140 (1.24); 7.3991 (1.53); 7.3950 (1.49); 7.3804 (0.71); 7.3760 (0.64); 7.2413 (2.07); 7.2226 (1.98); 5.3754 (5.29); 3.3476 (114.40); 3.0811 (16.00); 2.8913 (9.58); 2.7324 (8.25); 2.5081 (34.57); 2.5037 (43.87); 2.4993 (33.49); 0.0004 (1.58)
Example 244, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5103 (2.00); 8.0958 (1.42); 8.0752 (1.70); 7.8354 (1.27); 7.8162 (1.79); 7.7959 (1.18); 7.7275 (2.12); 7.7251 (2.63); 7.7214 (1.29); 7.7124 (0.85); 7.7073 (3.45); 7.7036 (2.42); 7.5647 (0.50); 7.5615 (0.32); 7.5527 (0.38); 7.5464 (1.68); 7.5407 (0.51); 7.5314 (0.91); 7.5281 (1.45); 7.5247 (0.74); 7.4967 (2.44); 7.4933 (1.08); 7.4812 (1.74); 7.4775 (3.16); 7.4639 (0.50); 7.4598 (1.26); 7.4566 (0.71); 7.1478 (1.80); 7.1293 (1.75); 5.3607 (6.17); 3.3304 (51.56); 3.0569 (16.00); 2.8913 (2.07); 2.7326 (1.71); 2.7316 (1.59); 2.6846 (0.33); 2.6713 (0.58); 2.6677 (0.64); 2.6491 (0.56); 2.6326 (0.37); 2.5256 (0.59); 2.5124 (10.74); 2.5079 (21.06); 2.5033 (27.53); 2.4987 (19.99); 2.4942 (9.54); 1.6099 (0.33); 1.5995 (0.35); 1.5872 (0.44); 1.5781 (0.42); 1.5653 (0.36); 1.3496 (0.35); 1.3367 (0.45); 1.3236 (0.56); 1.3051 (0.59); 1.2898 (0.92); 1.2785 (0.91); 1.2718 (1.20); 1.2549 (1.30); 1.2459 (1.04); 1.2354 (1.03); 1.2217 (0.82); 1.2152 (0.61); 1.2044 (0.54); 1.1962 (0.43); 1.1881 (0.47); 1.1733 (0.35); 1.0670 (5.83); 1.0500 (5.71); 0.8578 (2.10); 0.8528 (1.20); 0.8406 (4.59); 0.8225 (2.41); -0.0002 (8.32)
Example 245, Solvent: DMSO, Spectrometer: 400,13 MHz
10.9988 (2.86); 8.1622 (1.92); 8.1415 (2.35); 8.0503 (4.12); 8.0457 (1.56); 8.0332 (1.65); 8.0288 (4.52); 7.9336 (1.40); 7.9142 (2.11); 7.8942 (1.28); 7.7393 (2.94); 7.7213 (3.60); 7.7176 (2.71); 7.5949 (4.60); 7.5904 (1.65); 7.5734 (4.59); 7.5601 (0.66); 7.5536 (1.93); 7.5480 (0.76); 7.5353 (1.64); 7.5054 (2.70); 7.4861 (3.43); 7.4684 (1.34); 7.2443 (2.11); 7.2257 (2.05); 5.7612 (6.52); 5.4213 (7.01); 4.0422 (0.33); 4.0246 (0.35); 3.3685 (1.08); 3.3365 (221.52); 3.2583 (0.71); 3.0816 (16.00); 2.6758 (0.34); 2.5112 (43.36); 2.5068 (57.28); 2.5025 (42.19); 2.3337 (0.39); 1.9934 (1.44); 1.2382 (0.42); 1.1967 (0.40); 1.1790 (0.76); 1.1612 (0.40)
Example 246, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8610 (1.10); 7.8194 (0.75); 7.8141 (0.34); 7.8059 (0.88); 7.7970 (0.84); 7.7887 (0.44); 7.7831 (1.42); 7.7696 (1.10); 7.7668 (1.53); 7.3587 (0.78); 7.3366 (1.43); 7.3144 (0.71); 7.0800 (0.51); 7.0749 (0.51); 7.0645 (0.49); 7.0594 (0.49); 5.3185 (2.53); 3.5596 (0.87); 3.4011 (0.37); 3.3516 (32.11); 3.0680 (5.99); 2.5186 (2.03); 2.5142 (4.23); 2.5098 (5.74); 2.5053 (4.09); 2.5009 (1.88); 1.9957 (0.47); 1.5107 (1.98); 1.4682 (16.00); 1.3330 (0.37)
Example 247, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5085 (0.85); 8.0766 (0.49); 8.0559 (0.58); 7.8330 (0.50); 7.8136 (0.70); 7.7935 (0.46); 7.7240 (1.04); 7.7111 (0.35); 7.7061 (1.35); 7.7024 (0.95); 7.5458 (0.66); 7.5308 (0.35); 7.5275 (0.56); 7.4964 (0.97); 7.4809 (0.68); 7.4772 (1.23); 7.4595 (0.48); 7.1416 (0.72); 7.1235 (0.69); 5.3540 (2.48); 3.3285 (24.24); 3.0542 (6.16); 2.8910 (1.65); 2.7320 (1.33); 2.5118 (4.89); 2.5074 (9.68); 2.5028 (12.76); 2.4982 (9.38); 2.4938 (4.60); 2.3677 (0.59); 2.3494 (1.23); 2.3308 (0.71); 1.5627 (0.37); 1.5435 (0.40); 1.5403 (0.41); 1.5309 (0.33); 1.5206 (0.40); 1.1837 (0.76); 1.1733 (0.44); 1.1633 (0.44); 1.1604 (0.45); 1.1525 (0.41); 1.1410 (0.61); 0.8623 (16.00); -0.0002 (3.48)
Example 248, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5134 (2.17); 8.0921 (1.60); 8.0715 (1.88); 7.8348 (1.33); 7.8153 (1.96); 7.7952 (1.26); 7.7243 (2.91); 7.7114 (0.95); 7.7064 (3.73); 7.7028 (2.63); 7.5650 (0.51); 7.5619 (0.36); 7.5529 (0.40); 7.5466 (1.72); 7.5410 (0.57); 7.5316 (0.94); 7.5284 (1.48); 7.5252 (0.83); 7.4972 (2.69); 7.4815 (1.85); 7.4779 (3.35); 7.4642 (0.53); 7.4603 (1.27); 7.4573 (0.78); 7.1461 (2.00); 7.1276 (1.90); 5.3601 (6.80); 3.3344 (89.79); 3.0882 (0.49); 3.0572 (16.00); 2.8911 (1.68); 2.7316 (1.43); 2.7087 (0.35); 2.6892 (0.60); 2.6725 (0.79); 2.6579 (0.40); 2.5121 (13.08); 2.5078 (25.41); 2.5033 (33.14); 2.4987 (24.36); 2.4944 (11.93); 1.5898 (0.51); 1.5852 (0.43); 1.5755 (0.53); 1.5692 (0.61); 1.5639 (0.43); 1.5543 (0.60); 1.3273 (0.48); 1.3148 (0.63); 1.3019 (0.92); 1.2826 (1.32); 1.2684 (1.74); 1.2577 (0.88); 1.2491 (1.38); 1.2339 (1.28); 1.2207 (0.45); 1.2161 (0.50); 1.2088 (0.34); 1.0653 (6.44); 1.0483 (6.34); 0.8939 (0.36); 0.8785 (3.29); 0.8607 (6.20); 0.8428 (2.44); -0.0002 (5.41)
Example 249, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8213 (1.22); 7.7724 (0.82); 7.7568 (1.83); 7.6494 (0.32); 7.3888 (0.69); 7.3835 (0.80); 7.3760 (1.13); 7.3667 (0.78); 7.0218 (0.59); 7.0175 (0.58); 7.0059 (0.55); 7.0015 (0.55); 5.7640 (2.62); 5.3195 (2.87); 3.3401 (6.83); 3.3237 (6.22); 2.5124 (0.98); 2.5081 (1.27); 2.5039 (0.93); 1.4639 (16.00)

Example 250, Solvent: DMSO, Spectrometer: 400,13 MHz
10.0917 (2.65); 7.8295 (0.49); 7.8085 (1.97); 7.7927 (4.08); 7.7746 (0.63); 7.5387 (2.38); 7.5231 (0.70); 7.5145 (1.00); 7.5110 (1.06); 7.5015 (1.00); 7.4972 (0.75); 7.3893 (0.36); 7.3701 (2.46); 7.3640 (1.77); 7.3580 (3.41); 7.3557 (3.30); 7.0915 (1.40); 7.0866 (1.35); 7.0759 (1.29); 7.0710 (1.30); 5.7642 (4.65); 5.3254 (6.89); 4.6816 (0.44); 4.6690 (0.53); 4.6590 (0.83); 4.6495 (0.61); 4.6366 (0.41); 3.3277 (10.72); 3.3053 (0.96); 3.0626 (16.00); 2.5185 (9.24); 2.5142 (18.30); 2.5098 (24.34); 2.5054 (17.56); 2.5012 (8.48); 2.3398 (11.18); 1.8755 (0.86); 1.8628 (0.98); 1.8494 (1.02); 1.7352 (0.85); 1.7269 (0.92); 1.7121 (1.00); 1.5277 (0.44); 1.5175 (0.47); 1.4974 (0.52); 1.4711 (0.43); 1.4632 (0.40); 1.4391 (1.00); 1.4143 (1.27); 1.3887 (1.27); 1.3616 (1.14); 1.3359 (0.90); 1.3296 (0.97); 1.3116 (0.40); 1.3038 (0.53); 1.2830 (0.47); 1.2533 (0.80); 0.8655 (0.36)
Example 251, Solvent: DMSO, Spectrometer: 399,95 MHz
12.7560 (0.76); 8.1825 (1.92); 8.1772 (0.82); 8.1689 (2.16); 8.1656 (1.14); 8.1602 (2.17); 8.1521 (0.87); 8.1466 (1.97); 7.9535 (1.88); 7.7488 (2.02); 7.7462 (2.70); 7.7422 (1.34); 7.7338 (0.84); 7.7286 (3.47); 7.7247 (2.44); 7.5689 (0.47); 7.5576 (0.34); 7.5505 (1.66); 7.5446 (0.52); 7.5359 (0.94); 7.5325 (1.53); 7.5290 (0.79); 7.5082 (2.52); 7.5048 (1.13); 7.4932 (1.63); 7.4892 (3.11); 7.4759 (0.52); 7.4717 (1.23); 7.4681 (0.73); 7.4076 (1.98); 7.4024 (0.69); 7.3849 (5.55); 7.3684 (0.71); 7.3632 (1.90); 5.3844 (5.92); 3.3476 (122.79); 3.0193 (16.00); 2.8918 (14.81); 2.7330 (11.98); 2.5269 (0.67); 2.5136 (12.10); 2.5091 (23.58); 2.5045 (30.73); 2.4999 (22.31); 2.4954 (10.72); -0.0002 (1.49)
Example 252, Solvent: DMSO, Spectrometer: 400,13 MHz
12.4342 (2.00); 7.6225 (3.81); 7.6020 (4.37); 7.3495 (0.58); 7.3451 (0.47); 7.3298 (4.03); 7.3240 (4.71); 7.3162 (14.21); 7.3074 (5.07); 7.2870 (3.71); 7.2772 (1.63); 7.2672 (6.35); 7.2557 (1.44); 7.2512 (1.07); 7.2419 (0.83); 7.2344 (0.41); 5.3051 (7.02); 3.7517 (8.42); 3.5607 (1.00); 3.4211 (3.15); 3.3715 (269.39); 3.3219 (2.90); 3.0017 (16.00); 2.5572 (0.56); 2.5120 (34.30); 2.5077 (43.77); 2.5036 (32.56); 2.4582 (0.55); 2.3524 (11.36); 1.9931 (0.71); 1.2476 (0.82); 1.1775 (0.37); 0.8772 (0.35); 0.8606 (0.95); 0.8429 (0.40)
Example 253, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7389 (2.92); 7.7211 (3.54); 7.7173 (2.65); 7.5620 (0.56); 7.5588 (0.43); 7.5503 (0.49); 7.5436 (1.77); 7.5379 (0.68); 7.5288 (1.08); 7.5255 (1.60); 7.4986 (2.75); 7.4832 (1.93); 7.4795 (3.36); 7.4659 (0.69); 7.4619 (1.34); 7.4586 (0.89); 7.3839 (1.23); 7.3657 (1.59); 7.3632 (1.60); 7.3451 (1.37); 6.5154 (0.75); 6.5021 (1.44); 6.4870 (2.65); 6.4691 (2.05); 6.3994 (2.02); 6.3787 (1.97); 5.7616 (1.11); 5.1994 (6.87); 3.3396 (118.89); 3.2708 (0.67); 3.2506 (0.44); 3.2314 (1.07); 3.2146 (1.87); 3.1992 (1.83); 3.1821 (1.04); 3.0738 (16.00); 3.0481 (0.42); 2.5158 (11.06); 2.5116 (21.74); 2.5072 (29.16); 2.5028 (21.84); 1.7043 (1.28); 1.6690 (1.94); 1.6248 (1.72); 1.5917 (0.78); 1.4442 (0.43); 1.4240 (0.81); 1.4072 (1.97); 1.3886 (2.16); 1.3716 (1.33); 1.3634 (0.65); 1.3410 (0.49); 1.3329 (0.58); 1.3253 (0.56); 1.3162 (0.61); 1.3073 (0.56); 1.2990 (0.49); 1.2898 (0.44); 1.2803 (0.33); 1.2390 (0.50); 1.2303 (0.43); 1.1985 (0.95); 1.1688 (1.44); 1.1466 (1.69); 1.1261 (0.88); 1.0957 (0.50); 0.9179 (0.61); 0.8891 (1.28); 0.8609 (1.22); 0.8373 (0.49)
Example 254, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8576 (1.05); 7.7899 (0.86); 7.7808 (0.98); 7.7751 (2.20); 7.5367 (0.39); 7.5328 (0.43); 7.0999 (0.53); 7.0938 (0.54); 7.0854 (0.48); 7.0792 (0.54); 5.7642 (3.14); 5.3711 (2.61); 3.3398 (7.33); 3.1915 (6.87); 2.5176 (0.35); 2.5131 (0.76); 2.5086 (1.07); 2.5041 (0.79); 2.4996 (0.40); 1.4703 (16.00)
Example 255, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8720 (1.81); 8.0114 (0.77); 7.9907 (0.97); 7.9537 (0.52); 7.8515 (1.29); 7.8323 (1.71); 7.8119 (1.13); 7.7329 (1.93); 7.7301 (2.57); 7.7262 (1.29); 7.7176 (0.83); 7.7124 (3.41); 7.7087 (2.43); 7.5678 (0.49); 7.5646 (0.32); 7.5559 (0.36); 7.5495 (1.61); 7.5437 (0.51); 7.5346 (0.86); 7.5312 (1.42); 7.5278 (0.74); 7.5005 (2.37); 7.4971 (1.10); 7.4852 (1.60); 7.4814 (3.01); 7.4679 (0.47); 7.4638 (1.21); 7.4605 (0.69); 7.2920 (0.46); 7.2840 (0.55); 7.2776 (0.56); 7.2695 (0.98); 7.2615 (0.63); 7.2559 (0.88); 7.2455 (0.79); 7.2339 (1.15); 7.2222 (1.13); 7.2112 (0.77); 7.1995 (0.76); 7.1839 (0.60); 7.1761 (2.23); 7.1640 (0.82); 7.1590 (1.89); 7.1574 (1.95); 7.1457 (0.48); 5.3814 (5.89); 4.1094 (0.35); 4.0916 (0.35); 3.8350 (3.84); 3.7363 (0.35); 3.7328 (0.35); 3.3305 (59.82); 3.2301 (0.36); 3.0667 (16.00); 3.0574 (0.36); 2.8909 (4.28); 2.7325 (3.42); 2.7312 (3.33); 2.5256 (0.69); 2.5208 (1.11); 2.5123 (11.54); 2.5078 (22.78); 2.5031 (29.97); 2.4985 (21.65); 2.4940 (10.19); 1.2029 (0.40); 1.1851 (0.83); 1.1673 (0.39); 0.8761 (0.50); -0.0002 (7.11)
Example 256, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5588 (1.92); 8.0692 (1.21); 8.0485 (1.45); 7.8364 (1.30); 7.8171 (1.80); 7.7969 (1.20); 7.7262 (2.15); 7.7241 (2.67); 7.7112 (0.85); 7.7062 (3.58); 7.7024 (2.41); 7.5647 (0.49); 7.5528 (0.37); 7.5464 (1.67); 7.5406 (0.51); 7.5314 (0.91); 7.5281 (1.42); 7.5248 (0.73); 7.4973 (2.50); 7.4819 (1.74); 7.4782 (3.15); 7.4646 (0.50); 7.4605 (1.24); 7.4573 (0.68); 7.1464 (1.79); 7.1280 (1.75); 5.8644 (0.63); 5.8549 (0.33); 5.8485 (0.32); 5.8386 (0.87); 5.8217 (0.87); 5.8119 (0.36); 5.8055 (0.37); 5.7959 (0.74); 5.7799 (0.35); 5.3561 (6.42); 5.0796 (0.48); 5.0755 (1.20); 5.0709 (1.22); 5.0668 (0.48); 5.0366 (0.43); 5.0325 (1.08); 5.0279 (1.09); 5.0238 (0.43); 4.9832 (0.55); 4.9801 (1.14); 4.9779 (0.90); 4.9753 (1.00); 4.9723 (0.46); 4.9576 (0.52); 4.9545 (1.08); 4.9523 (0.85); 4.9498 (0.95); 4.9467 (0.42); 3.3290 (56.17); 3.2234 (0.36); 3.0878 (0.60); 3.0535 (16.00); 2.8908 (0.51); 2.7320 (0.42); 2.5252 (0.64); 2.5118 (12.37); 2.5073 (22.99); 2.5027 (29.47); 2.4981 (21.39); 2.4934 (12.11); 2.4732 (2.16); 2.3493 (0.70); 2.3335 (1.76); 2.3301 (1.78); 2.3172 (1.20); 2.3140 (1.54); 2.2975 (0.45); 0.8758 (0.48); -0.0002 (4.83)
Example 257, Solvent: DMSO, Spectrometer: 399,95 MHz
12.7279 (1.12); 8.0919 (2.68); 8.0786 (0.91); 8.0740 (3.13); 8.0705 (2.35); 7.9533 (1.19); 7.7499 (2.15); 7.7474 (2.71); 7.7434 (1.32); 7.7349 (0.91); 7.7297 (3.52); 7.7259 (2.47); 7.6618 (0.34); 7.6589 (0.57); 7.6559 (0.35); 7.6454 (0.48); 7.6406 (1.62); 7.6357 (0.53); 7.6250 (0.78); 7.6220 (1.22); 7.6189 (0.67); 7.5652 (2.44); 7.5580 (0.66); 7.5499 (2.75); 7.5453 (3.65); 7.5360 (1.22); 7.5324 (1.96); 7.5275 (1.71); 7.5086 (2.58); 7.5053 (1.14); 7.4937 (1.71); 7.4896 (3.16); 7.4763 (0.54); 7.4721 (1.26); 7.4685 (0.76); 7.3803 (4.21); 5.3865 (6.20); 3.3487 (150.38); 3.3096 (0.39); 3.0226 (16.00); 2.8916 (9.19); 2.7329 (7.61); 2.5267 (0.71); 2.5133 (12.92); 2.5089 (24.83); 2.5043 (31.99); 2.4997 (23.15); 2.4953 (11.06); -0.0002 (0.54)
Example 258, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.9129 (1.78); 7.8851 (2.27); 7.7253 (1.47); 7.6987 (2.54); 7.6693 (3.25); 7.6447 (3.33); 7.6240 (2.67); 7.3467 (4.08); 7.3191 (3.66); 7.2968

(4.19); 7.2573 (12.26); 7.2301 (3.45); 7.1347 (2.37); 7.1087 (4.54); 7.0814 (2.29); 7.0233 (2.66); 6.9986 (2.51); 5.2777 (10.06); 4.4296 (2.48); 4.4069 (5.17); 4.3840 (2.68); 3.0953 (16.00); 3.0239 (2.57); 3.0012 (4.99); 2.9786 (2.43); 2.0084 (2.01); 1.6038 (6.29); 1.2541 (0.52); -0.0002 (3.01)
Example 259, Solvent: DMSO, Spectrometer: 400,13 MHz
7.8120 (1.89); 7.8066 (0.85); 7.7985 (2.10); 7.7932 (1.15); 7.7895 (2.11); 7.7815 (0.87); 7.7761 (1.92); 7.3987 (1.28); 7.3804 (1.66); 7.3783 (1.62); 7.3599 (1.42); 7.3477 (2.07); 7.3424 (0.74); 7.3255 (3.68); 7.3207 (0.88); 7.3086 (0.65); 7.3033 (1.83); 6.5061 (1.83); 6.4886 (1.76); 6.3893 (1.87); 6.3693 (1.81); 6.0030 (2.81); 5.7558 (11.12); 5.1716 (6.65); 4.9644 (0.41); 3.4636 (2.31); 3.3258 (9.38); 3.3020 (0.35); 3.1338 (0.43); 3.0837 (16.00); 3.0284 (0.43); 2.5097 (1.31); 2.5053 (2.76); 2.5007 (3.79); 2.4963 (2.70); 2.4919 (1.26); 1.5326 (2.59)
Example 260, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8357 (2.17); 8.0093 (1.23); 7.9887 (1.63); 7.9531 (0.80); 7.8678 (1.35); 7.8486 (1.80); 7.8283 (1.14); 7.7300 (1.97); 7.7275 (2.60); 7.7237 (1.26); 7.7149 (0.79); 7.7098 (3.45); 7.7060 (2.40); 7.5698 (0.49); 7.5579 (0.36); 7.5515 (1.65); 7.5459 (0.49); 7.5365 (0.87); 7.5332 (1.42); 7.5299 (0.73); 7.5015 (2.40); 7.4980 (1.01); 7.4860 (1.69); 7.4823 (3.10); 7.4687 (0.50); 7.4646 (1.24); 7.4614 (0.70); 7.3514 (0.36); 7.3425 (4.16); 7.3369 (1.23); 7.3255 (1.31); 7.3199 (4.66); 7.3109 (0.40); 7.2029 (1.76); 7.1852 (1.71); 6.9558 (0.42); 6.9469 (4.37); 6.9413 (1.26); 6.9299 (1.19); 6.9243 (3.92); 6.9154 (0.32); 5.3843 (5.98); 5.0701 (1.07); 5.0536 (1.08); 3.3514 (102.16); 3.3486 (139.13); 3.0611 (16.00); 2.8914 (6.58); 2.7327 (5.16); 2.7319 (5.05); 2.5266 (0.64); 2.5133 (13.11); 2.5088 (25.99); 2.5042 (34.16); 2.4996 (24.71); 2.4951 (11.70); 1.5354 (5.41); 1.5190 (5.40); -0.0002 (0.56)
Example 261, Solvent: DMSO, Spectrometer: 400,13 MHz
8.0043 (0.53); 7.9848 (0.33); 7.6324 (0.57); 7.4997 (0.41); 7.4808 (0.48); 7.4447 (0.51); 7.4255 (0.41); 5.8276 (1.62); 5.5018 (1.32); 3.4021 (1.07); 3.1184 (3.35); 2.5758 (4.24); 2.5714 (8.61); 2.5669 (11.56); 2.5624 (8.20); 2.5580 (3.77); 1.5267 (0.57); 1.4096 (16.00)
Example 262, Solvent: DMSO, Spectrometer: 399,95 MHz
12.8129 (1.57); 7.9526 (1.61); 7.7914 (2.80); 7.7865 (2.81); 7.7412 (2.05); 7.7386 (2.70); 7.7346 (1.31); 7.7262 (0.93); 7.7210 (3.51); 7.7171 (2.39); 7.6968 (2.46); 7.6761 (3.42); 7.5797 (2.16); 7.5747 (2.02); 7.5684 (0.38); 7.5651 (0.59); 7.5590 (1.64); 7.5539 (1.85); 7.5468 (1.72); 7.5410 (0.51); 7.5321 (0.98); 7.5288 (1.53); 7.5253 (0.77); 7.5030 (2.53); 7.4996 (1.07); 7.4879 (1.74); 7.4840 (3.13); 7.4705 (0.54); 7.4664 (1.28); 7.4629 (0.75); 7.4112 (4.10); 5.3639 (5.70); 3.3327 (57.92); 3.3298 (86.16); 3.0374 (16.00); 3.0161 (0.56); 2.8905 (13.13); 2.7315 (10.22); 2.7308 (10.22); 2.5246 (0.96); 2.5198 (1.45); 2.5113 (18.55); 2.5068 (36.83); 2.5022 (48.25); 2.4976 (34.97); 2.4930 (16.60); 0.0079 (0.40); -0.0002 (12.51); -0.0085 (0.40)
Example 263, Solvent: DMSO, Spectrometer: 399,95 MHz
12.8993 (0.93); 7.8246 (1.47); 7.8192 (1.89); 7.8040 (1.90); 7.7986 (1.52); 7.7462 (2.83); 7.7423 (1.48); 7.7336 (0.90); 7.7285 (3.53); 7.7247 (2.56); 7.6126 (0.33); 7.6068 (0.54); 7.5898 (0.68); 7.5841 (1.07); 7.5785 (0.62); 7.5691 (0.71); 7.5613 (0.67); 7.5582 (0.61); 7.5510 (1.79); 7.5452 (0.57); 7.5363 (0.99); 7.5330 (1.58); 7.5295 (0.87); 7.5083 (2.63); 7.4932 (1.69); 7.4893 (3.22); 7.4759 (0.55); 7.4718 (1.26); 7.4683 (0.75); 7.4245 (3.48); 5.3912 (6.09); 3.3462 (66.87); 3.3416 (98.96); 3.0178 (16.00); 2.8915 (0.44); 2.7322 (0.36); 2.5263 (0.57); 2.5129 (12.95); 2.5085 (25.78); 2.5040 (34.03); 2.4994 (25.26); 2.4950 (12.64); -0.0002 (8.68); -0.0085 (0.33)
Example 264, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8225 (1.89); 8.0438 (1.01); 8.0231 (1.23); 7.9530 (0.55); 7.8547 (1.32); 7.8354 (1.82); 7.8152 (1.18); 7.7230 (2.64); 7.7192 (1.31); 7.7103 (0.83); 7.7052 (3.52); 7.7015 (2.39); 7.5641 (0.49); 7.5609 (0.32); 7.5522 (0.37); 7.5458 (1.67); 7.5401 (0.50); 7.5308 (0.88); 7.5275 (1.43); 7.5242 (0.73); 7.4962 (2.50); 7.4929 (1.11); 7.4808 (1.67); 7.4770 (3.13); 7.4634 (0.49); 7.4594 (1.24); 7.4562 (0.69); 7.3918 (1.71); 7.3881 (1.77); 7.3794 (1.79); 7.3757 (1.82); 7.1740 (1.80); 7.1560 (1.78); 6.9915 (0.93); 6.9864 (2.04); 6.9830 (1.86); 6.9796 (3.14); 6.9708 (1.01); 6.9671 (2.25); 6.9585 (1.10); 5.3715 (6.28); 3.9564 (5.70); 3.3300 (63.32); 3.2185 (0.68); 3.0543 (16.00); 2.8902 (4.49); 2.7317 (3.51); 2.7309 (3.56); 2.5249 (0.63); 2.5201 (0.99); 2.5116 (11.97); 2.5071 (23.85); 2.5025 (31.51); 2.4979 (22.91); 2.4934 (10.95); 0.8757 (0.44); -0.0002 (7.55)
Example 265, Solvent: DMSO, Spectrometer: 399,95 MHz
11.7658 (1.42); 7.9531 (0.62); 7.7302 (2.85); 7.7263 (1.44); 7.7174 (1.11); 7.7126 (3.67); 7.7088 (2.49); 7.5624 (0.53); 7.5592 (0.37); 7.5508 (0.42); 7.5440 (1.76); 7.5382 (0.58); 7.5292 (1.07); 7.5259 (1.61); 7.5225 (0.86); 7.5000 (2.80); 7.4848 (1.93); 7.4810 (3.48); 7.4676 (0.62); 7.4634 (1.37); 7.4599 (0.85); 7.2523 (4.15); 5.3572 (0.43); 5.2833 (6.24); 4.1472 (0.63); 4.1312 (0.39); 4.1221 (2.32); 4.1053 (4.91); 4.0886 (2.37); 3.3301 (65.71); 3.0486 (0.70); 3.0299 (16.00); 2.9910 (0.99); 2.8907 (4.72); 2.7321 (3.83); 2.7311 (3.80); 2.5250 (0.70); 2.5117 (13.28); 2.5072 (26.01); 2.5026 (34.09); 2.4981 (24.95); 2.4936 (12.17); 1.6644 (1.22); 1.6472 (2.50); 1.6289 (2.58); 1.6117 (1.30); 1.5937 (0.32); 1.2349 (0.38); 1.1211 (0.61); 1.1058 (0.60); 0.9307 (4.55); 0.9123 (8.73); 0.8937 (3.88); 0.8028 (0.50); 0.7844 (1.04); 0.7658 (0.45); 0.0080 (0.38); -0.0002 (9.93); -0.0085 (0.33)
Example 266, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5110 (1.78); 8.0783 (1.26); 8.0577 (1.49); 7.8342 (1.26); 7.8150 (1.72); 7.7947 (1.16); 7.7263 (1.91); 7.7238 (2.51); 7.7199 (1.21); 7.7112 (0.74); 7.7060 (3.33); 7.7023 (2.30); 7.5647 (0.47); 7.5528 (0.35); 7.5463 (1.60); 7.5406 (0.47); 7.5314 (0.85); 7.5281 (1.39); 7.5246 (0.70); 7.4973 (2.34); 7.4938 (1.00); 7.4819 (1.59); 7.4781 (3.01); 7.4646 (0.46); 7.4605 (1.20); 7.4573 (0.66); 7.1409 (1.74); 7.1235 (1.68); 5.3553 (6.25); 3.3290 (47.50); 3.0544 (16.00); 2.8908 (0.96); 2.7321 (0.75); 2.7311 (0.74); 2.5252 (0.56); 2.5204 (0.88); 2.5119 (10.17); 2.5074 (20.26); 2.5028 (26.71); 2.4982 (19.34); 2.4937 (9.17); 2.3781 (1.98); 2.3599 (3.85); 2.3416 (2.19); 1.6185 (1.28); 1.6001 (2.48); 1.5817 (2.46); 1.5634 (1.29); 0.9106 (4.18); 0.8922 (8.59); 0.8736 (3.79); -0.0002 (7.17)
Example 267, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5028 (2.08); 8.0700 (1.21); 8.0493 (1.45); 7.9534 (0.39); 7.8304 (1.26); 7.8112 (1.73); 7.7909 (1.16); 7.7314 (0.32); 7.7257 (1.96); 7.7232 (2.58); 7.7194 (1.25); 7.7106 (0.80); 7.7055 (3.40); 7.7017 (2.36); 7.5637 (0.48); 7.5518 (0.36); 7.5454 (1.62); 7.5397 (0.49); 7.5305 (0.87); 7.5272 (1.41); 7.5237 (0.72); 7.4958 (2.39); 7.4924 (1.03); 7.4804 (1.65); 7.4766 (3.07); 7.4631 (0.48); 7.4590 (1.22); 7.4558 (0.68); 7.1392

(1.76); 7.1215 (1.69); 5.3524 (6.09); 3.3277 (54.17); 3.0520 (16.00); 2.8908 (3.16); 2.7321 (2.47); 2.7311 (2.47); 2.5250 (0.71); 2.5117 (12.59); 2.5072 (24.78); 2.5026 (32.57); 2.4980 (23.61); 2.4935 (11.26); 2.3682 (1.40); 2.3498 (2.77); 2.3311 (1.64); 1.6865 (0.99); 1.6576 (1.98); 1.6362 (0.94); 1.6282 (1.15); 1.6127 (1.04); 1.5935 (1.32); 1.5746 (1.54); 1.5557 (0.98); 1.5369 (0.37); 1.2339 (0.58); 1.2191 (0.45); 1.2073 (0.81); 1.1991 (1.06); 1.1871 (1.49); 1.1753 (1.92); 1.1682 (2.47); 1.1488 (1.75); 1.1384 (1.38); 1.1225 (0.41); 1.1160 (0.56); 1.1098 (0.41); 1.0854 (0.37); 0.8776 (0.44); 0.8487 (0.88); 0.8221 (0.82); 0.0080 (0.35); -0.0002 (9.29)
Example 268, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5090 (1.95); 8.0719 (1.29); 8.0512 (1.54); 7.8323 (1.29); 7.8129 (1.81); 7.7928 (1.20); 7.7231 (2.74); 7.7194 (1.36); 7.7105 (0.83); 7.7054 (3.62); 7.7016 (2.45); 7.5642 (0.50); 7.5610 (0.32); 7.5523 (0.38); 7.5458 (1.70); 7.5403 (0.50); 7.5310 (0.89); 7.5276 (1.46); 7.5243 (0.75); 7.4964 (2.54); 7.4931 (1.07); 7.4809 (1.71); 7.4772 (3.21); 7.4636 (0.49); 7.4596 (1.26); 7.4564 (0.71); 7.1407 (1.86); 7.1225 (1.78); 5.4108 (0.42); 5.3970 (0.36); 5.3722 (1.59); 5.3543 (6.98); 5.3425 (1.86); 5.3275 (0.64); 5.3037 (0.40); 3.3309 (61.84); 3.0544 (15.69); 2.5257 (0.52); 2.5123 (9.90); 2.5078 (19.67); 2.5032 (25.99); 2.4986 (18.86); 2.4941 (8.99); 2.3961 (1.36); 2.3881 (0.66); 2.3779 (2.62); 2.3594 (1.42); 2.2293 (0.47); 2.2126 (0.72); 2.1962 (0.66); 2.1803 (0.40); 1.9840 (0.57); 1.9671 (1.27); 1.9514 (1.43); 1.9333 (0.76); 1.5991 (0.43); 1.5809 (1.05); 1.5620 (1.35); 1.5431 (1.03); 1.5245 (0.40); 1.3616 (0.47); 1.3423 (1.15); 1.3304 (0.77); 1.3239 (1.47); 1.3046 (0.97); 1.2858 (0.52); 0.9309 (16.00); 0.9140 (15.65); 0.8974 (2.18); 0.8808 (2.11); 0.8758 (0.68); 0.8623 (0.34); -0.0002 (4.98)
Example 269, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5931 (2.29); 8.0375 (0.71); 8.0168 (0.91); 7.8905 (1.34); 7.8712 (1.86); 7.8510 (1.15); 7.7298 (2.70); 7.7260 (1.34); 7.7170 (0.83); 7.7120 (3.50); 7.7082 (2.49); 7.6176 (1.63); 7.6137 (1.68); 7.5979 (1.77); 7.5940 (1.73); 7.5684 (0.50); 7.5564 (0.37); 7.5500 (1.70); 7.5444 (0.50); 7.5351 (0.92); 7.5318 (1.47); 7.5284 (0.75); 7.5010 (2.47); 7.4976 (1.08); 7.4855 (1.75); 7.4818 (3.20); 7.4681 (0.52); 7.4641 (1.27); 7.4609 (0.72); 7.3529 (0.73); 7.3489 (0.73); 7.3341 (1.08); 7.3319 (1.25); 7.3284 (1.04); 7.3137 (0.96); 7.3097 (0.90); 7.2140 (1.82); 7.1956 (1.75); 7.0479 (1.50); 7.0448 (1.61); 7.0271 (1.37); 7.0240 (1.34); 6.9440 (1.01); 6.9407 (0.92); 6.9248 (1.54); 6.9218 (1.48); 6.9058 (0.86); 6.9025 (0.78); 5.3871 (6.33); 4.9188 (5.58); 3.3532 (60.00); 3.3473 (97.95); 3.0723 (16.00); 2.8909 (0.53); 2.7323 (0.35); 2.5261 (0.64); 2.5128 (12.51); 2.5083 (24.48); 2.5038 (31.93); 2.4992 (23.20); 2.4947 (11.08); -0.0002 (2.55)
Example 270, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2536 (4.91); 7.8306 (1.24); 7.8097 (2.96); 7.7922 (3.54); 7.7818 (3.38); 7.7790 (3.75); 7.7611 (1.42); 7.7581 (1.12); 7.7247 (4.46); 7.7208 (2.20); 7.7120 (1.48); 7.7069 (5.89); 7.7032 (4.08); 7.5784 (0.45); 7.5752 (0.81); 7.5720 (0.55); 7.5635 (0.64); 7.5569 (2.82); 7.5511 (0.86); 7.5421 (1.61); 7.5387 (2.50); 7.5353 (1.30); 7.5105 (4.22); 7.4952 (2.79); 7.4914 (5.22); 7.4779 (0.82); 7.4738 (2.04); 7.4704 (1.14); 7.3147 (16.00); 7.3037 (15.02); 7.2946 (0.69); 7.2901 (0.42); 7.2849 (0.47); 7.2820 (0.53); 7.2560 (0.44); 7.2465 (1.26); 7.2360 (1.87); 7.2252 (1.99); 7.2149 (1.08); 7.2034 (0.48); 7.1002 (2.50); 7.0973 (2.55); 7.0828 (2.42); 7.0799 (2.35); 5.3435 (10.41); 4.3087 (2.93); 4.2915 (6.69); 4.2743 (3.04); 4.0612 (0.38); 4.0434 (1.16); 4.0256 (1.17); 4.0078 (0.39); 3.5201 (1.32); 3.5020 (4.61); 3.4839 (4.65); 3.4655 (1.48); 3.4124 (9.03); 3.4045 (0.68); 3.3977 (0.59); 3.3625 (697.57); 3.3126 (8.07); 3.3005 (0.40); 3.2629 (0.33); 2.9537 (2.84); 2.9365 (6.03); 2.9193 (2.75); 2.6835 (0.42); 2.6789 (0.57); 2.6744 (0.42); 2.5688 (0.33); 2.5643 (0.78); 2.5597 (1.16); 2.5552 (0.87); 2.5509 (0.49); 2.5323 (1.56); 2.5275 (2.67); 2.5189 (34.24); 2.5144 (71.95); 2.5099 (98.33); 2.5054 (69.91); 2.5009 (32.16); 2.4691 (0.51); 2.4645 (0.86); 2.4599 (1.17); 2.4555 (0.90); 2.4509 (0.51); 2.3413 (0.45); 2.3368 (0.62); 2.3321 (0.45); 1.9958 (5.24); 1.3701 (0.42); 1.2841 (0.40); 1.2510 (1.87); 1.1982 (1.46); 1.1804 (2.85); 1.1626 (1.39); 1.0513 (5.25); 1.0332 (12.20); 1.0150 (5.20); 0.8804 (0.89); 0.8637 (2.97); 0.8461 (1.12)
Example 271, Solvent: DMSO, Spectrometer: 399,95 MHz
12.1189 (1.60); 7.9530 (0.48); 7.7432 (0.33); 7.7374 (2.09); 7.7347 (2.76); 7.7306 (1.39); 7.7223 (0.86); 7.7171 (3.63); 7.7132 (2.53); 7.5640 (0.50); 7.5607 (0.35); 7.5526 (0.36); 7.5456 (1.68); 7.5398 (0.56); 7.5310 (0.95); 7.5276 (1.58); 7.5240 (0.88); 7.5021 (2.62); 7.4988 (1.18); 7.4871 (1.68); 7.4831 (3.19); 7.4698 (0.52); 7.4657 (1.27); 7.4621 (0.72); 7.2601 (3.80); 5.3202 (5.95); 5.1159 (0.52); 3.3307 (65.87); 3.0484 (1.43); 3.0298 (0.62); 3.0139 (16.00); 2.8907 (3.98); 2.7320 (3.13); 2.7310 (3.10); 2.5251 (0.64); 2.5202 (1.04); 2.5118 (12.70); 2.5073 (25.38); 2.5026 (33.45); 2.4980 (24.20); 2.4935 (11.50); 2.4042 (2.10); 2.3859 (4.07); 2.3764 (0.36); 2.3675 (2.31); 2.1760 (0.67); 2.1579 (0.36); 1.6315 (1.32); 1.6130 (2.55); 1.5946 (2.52); 1.5762 (1.32); 1.5169 (0.35); 1.4985 (0.35); 1.2350 (0.41); 1.1237 (0.50); 1.1084 (0.49); 0.9055 (4.24); 0.8940 (0.95); 0.8870 (8.75); 0.8758 (1.29); 0.8685 (3.89); 0.8573 (0.53); 0.0080 (0.38); -0.0002 (11.42); -0.0085 (0.35)
Example 272, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2748 (3.08); 7.8288 (0.62); 7.8077 (1.84); 7.7907 (2.76); 7.7879 (2.33); 7.7839 (2.42); 7.7666 (0.68); 7.7630 (0.42); 7.5396 (2.16); 7.5241 (0.64); 7.5201 (0.56); 7.5152 (0.95); 7.5119 (1.00); 7.5065 (0.59); 7.5024 (0.90); 7.4979 (0.69); 7.3698 (2.38); 7.3642 (1.56); 7.3581 (3.33); 7.3557 (3.19); 7.3182 (9.42); 7.3072 (10.44); 7.2977 (0.47); 7.2484 (0.79); 7.2382 (1.13); 7.2271 (1.24); 7.2169 (0.59); 7.2151 (0.59); 7.1003 (1.43); 7.0967 (1.44); 7.0835 (1.36); 7.0798 (1.36); 5.7683 (4.36); 5.3294 (6.25); 4.3091 (1.77); 4.2919 (3.97); 4.2746 (1.82); 3.4037 (0.97); 3.3535 (85.62); 3.3034 (0.84); 3.0561 (16.00); 2.9567 (1.70); 2.9394 (3.60); 2.9223 (1.63); 2.5598 (0.36); 2.5321 (0.51); 2.5273 (0.83); 2.5186 (10.78); 2.5142 (22.44); 2.5097 (30.45); 2.5052 (21.69); 2.5008 (10.00); 2.3376 (10.61); 1.9962 (0.32); 0.8633 (0.38)
Example 273, Solvent: DMSO, Spectrometer: 400,13 MHz
10.0964 (3.37); 7.8268 (0.34); 7.8057 (2.55); 7.7996 (2.71); 7.7923 (5.67); 7.7786 (0.49); 7.7281 (2.96); 7.7102 (3.59); 7.7066 (2.67); 7.5665 (0.51); 7.5545 (0.42); 7.5481 (1.76); 7.5427 (0.58); 7.5330 (1.00); 7.5300 (1.53); 7.4993 (2.67); 7.4801 (3.37); 7.4663 (0.60); 7.4624 (1.28); 7.0999 (1.37); 7.0926 (1.37); 7.0866 (1.21); 7.0792 (1.31); 5.7660 (9.16); 5.3293 (7.08); 4.9239 (0.48); 4.9086 (0.67); 4.9026 (0.63); 4.8958 (0.64); 4.8896 (0.68); 4.8744 (0.48); 3.3938 (0.69); 3.3441 (47.37); 3.2945 (0.46); 3.0757 (16.00); 2.5620 (0.35); 2.5575 (0.45); 2.5530 (0.33); 2.5121 (25.17); 2.5077 (33.19); 2.5034 (24.22); 2.4584 (0.34); 1.6934 (0.55); 1.6756 (0.68); 1.6582 (0.64); 1.6419 (0.40); 1.5897 (0.56); 1.5748 (0.46); 1.5682 (0.60); 1.5549 (0.96); 1.5406 (0.64); 1.5340 (0.74); 1.5192 (0.57); 1.3542 (0.67); 1.3419 (0.75); 1.3341 (0.65); 1.3209 (1.04); 1.3076 (0.57); 1.2998 (0.59); 1.2872 (0.57); 1.2329 (7.05); 1.2174 (6.90); 0.8989 (10.42); 0.8828 (10.36); 0.8617 (0.94); 0.8441 (0.40)
Example 274, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7019 (2.04); 8.0143 (0.53); 7.9939 (0.68); 7.9532 (0.96); 7.8834 (1.41); 7.8645 (1.82); 7.8439 (1.19); 7.7312 (1.94); 7.7285 (2.56); 7.7247

(1.23); 7.7160 (0.76); 7.7108 (3.44); 7.7071 (2.38); 7.6072 (3.15); 7.6007 (3.32); 7.5674 (0.48); 7.5555 (0.35); 7.5491 (1.63); 7.5434 (0.48); 7.5342 (0.87); 7.5308 (1.41); 7.5274 (0.72); 7.4996 (2.34); 7.4962 (0.99); 7.4842 (1.60); 7.4805 (3.04); 7.4669 (0.47); 7.4628 (1.22); 7.4596 (0.67); 7.3777 (1.54); 7.3713 (1.43); 7.3555 (1.80); 7.3490 (1.73); 7.2103 (1.70); 7.1917 (1.63); 7.1000 (2.67); 7.0776 (2.29); 5.3832 (5.95); 4.9497 (4.55); 3.3282 (37.74); 3.0682 (16.00); 2.8906 (7.85); 2.7319 (6.15); 2.7310 (6.09); 2.5250 (0.63); 2.5202 (0.97); 2.5117 (12.73); 2.5071 (25.54); 2.5025 (33.71); 2.4979 (24.41); 2.4934 (11.58); -0.0002 (8.34)

Example 275, Solvent: DMSO, Spectrometer: 399,95 MHz

10.7688 (2.18); 8.0309 (1.21); 8.0102 (1.60); 7.9528 (0.76); 7.8802 (1.31); 7.8607 (1.81); 7.8406 (1.14); 7.7282 (2.70); 7.7246 (1.38); 7.7156 (0.77); 7.7105 (3.43); 7.7068 (2.51); 7.6133 (1.57); 7.6094 (1.68); 7.5936 (1.72); 7.5896 (1.73); 7.5690 (0.50); 7.5659 (0.34); 7.5570 (0.36); 7.5507 (1.64); 7.5451 (0.50); 7.5357 (0.86); 7.5324 (1.44); 7.5291 (0.78); 7.5005 (2.47); 7.4851 (1.65); 7.4813 (3.15); 7.4677 (0.49); 7.4637 (1.25); 7.4606 (0.76); 7.3333 (0.70); 7.3293 (0.73); 7.3145 (1.01); 7.3125 (1.22); 7.3109 (1.23); 7.3088 (1.10); 7.2941 (0.92); 7.2901 (0.90); 7.2107 (1.86); 7.1920 (1.77); 6.9906 (1.36); 6.9877 (1.60); 6.9697 (1.29); 6.9668 (1.36); 6.9256 (0.92); 6.9223 (0.90); 6.9062 (1.47); 6.9035 (1.44); 6.8874 (0.84); 6.8841 (0.79); 5.3872 (6.09); 5.1467 (1.03); 5.1302 (1.04); 3.3399 (123.75); 3.0660 (16.00); 2.8908 (5.95); 2.7322 (4.63); 2.7311 (4.93); 2.5258 (0.64); 2.5210 (1.07); 2.5124 (13.90); 2.5079 (28.05); 2.5033 (37.22); 2.4987 (27.34); 2.4942 (13.33); 1.5824 (5.61); 1.5660 (5.59); -0.0002 (1.61)

Example 276, Solvent: DMSO, Spectrometer: 399,95 MHz

12.5560 (0.64); 7.9537 (0.82); 7.7374 (2.70); 7.7335 (1.28); 7.7249 (0.79); 7.7197 (3.48); 7.7159 (2.39); 7.5677 (0.48); 7.5562 (0.35); 7.5493 (1.71); 7.5435 (0.50); 7.5346 (0.94); 7.5312 (1.53); 7.5277 (0.77); 7.5050 (2.54); 7.5016 (1.06); 7.4899 (1.64); 7.4859 (3.15); 7.4725 (0.49); 7.4684 (1.25); 7.4649 (0.68); 7.3508 (0.43); 7.3414 (6.02); 7.3404 (5.91); 7.3249 (1.35); 7.3193 (4.72); 7.3104 (0.42); 6.9532 (0.42); 6.9443 (4.51); 6.9387 (1.29); 6.9273 (1.23); 6.9217 (4.04); 6.9127 (0.34); 5.3386 (5.77); 5.0657 (0.38); 5.0492 (1.46); 5.0326 (1.48); 5.0161 (0.39); 3.3457 (65.65); 3.0206 (16.00); 2.8912 (6.84); 2.7330 (5.35); 2.7321 (5.33); 2.5269 (0.41); 2.5221 (0.63); 2.5136 (7.99); 2.5091 (16.01); 2.5045 (21.12); 2.4999 (15.25); 2.4953 (7.19); 1.5480 (5.56); 1.5314 (5.56); -0.0002 (1.60)

Example 277, Solvent: DMSO, Spectrometer: 399,95 MHz

10.6096 (2.19); 8.0826 (1.14); 8.0618 (1.37); 7.9528 (0.54); 7.8409 (1.25); 7.8215 (1.73); 7.8013 (1.16); 7.7213 (2.00); 7.7189 (2.60); 7.7151 (1.25); 7.7062 (0.86); 7.7011 (3.43); 7.6974 (2.44); 7.5647 (0.49); 7.5527 (0.37); 7.5464 (1.64); 7.5407 (0.51); 7.5314 (0.87); 7.5281 (1.42); 7.5247 (0.72); 7.4962 (2.43); 7.4929 (1.04); 7.4808 (1.67); 7.4770 (3.10); 7.4634 (0.49); 7.4594 (1.23); 7.4562 (0.68); 7.1677 (3.79); 7.1664 (3.80); 7.1476 (2.84); 7.1283 (1.73); 6.9328 (1.44); 6.9284 (1.09); 6.9099 (1.23); 5.3488 (6.06); 4.0675 (0.65); 4.0497 (0.65); 4.0080 (1.45); 3.9927 (3.37); 3.9776 (2.00); 3.9627 (0.33); 3.3890 (0.38); 3.3452 (212.55); 3.3105 (0.40); 3.0430 (16.00); 2.8912 (4.40); 2.7324 (3.41); 2.7316 (3.45); 2.6095 (1.27); 2.5913 (2.79); 2.5733 (1.45); 2.5261 (0.99); 2.5213 (1.58); 2.5128 (17.45); 2.5083 (34.25); 2.5037 (44.75); 2.4991 (32.26); 2.4946 (15.19); 2.4704 (0.69); 2.4523 (0.36); 2.1263 (1.67); 2.1070 (10.62); 2.0661 (0.37); 2.0495 (1.13); 2.0329 (1.74); 2.0160 (1.10); 1.9995 (0.51); 1.9820 (0.35); 1.1884 (0.73); 1.1706 (1.50); 1.1528 (0.72); -0.0002 (3.49)

Example 278, Solvent: DMSO, Spectrometer: 399,95 MHz

10.1336 (1.96); 8.0664 (1.00); 8.0457 (1.26); 7.9513 (0.33); 7.8853 (1.24); 7.8659 (1.71); 7.8459 (1.15); 7.7246 (2.19); 7.7221 (2.73); 7.7180 (1.51); 7.7142 (0.65); 7.7089 (1.35); 7.7043 (3.69); 7.7005 (2.37); 7.5649 (0.50); 7.5616 (0.33); 7.5528 (0.42); 7.5466 (1.70); 7.5408 (0.57); 7.5315 (1.18); 7.5282 (1.48); 7.5249 (0.82); 7.4962 (2.41); 7.4927 (1.05); 7.4808 (1.86); 7.4770 (3.30); 7.4635 (0.63); 7.4593 (1.50); 7.4559 (1.13); 7.4002 (0.58); 7.3855 (7.73); 7.3797 (3.53); 7.3714 (2.95); 7.3696 (3.46); 7.3640 (0.65); 7.3553 (0.54); 7.3520 (0.70); 7.3498 (0.81); 7.3310 (0.68); 7.3248 (0.93); 7.3179 (0.78); 7.3090 (0.84); 7.3001 (0.46); 7.2945 (0.34); 7.1994 (0.35); 7.1902 (1.72); 7.1726 (1.65); 7.1104 (0.40); 5.4143 (0.33); 5.3643 (6.06); 5.3563 (1.29); 5.2003 (0.33); 4.6039 (8.29); 4.1870 (7.38); 3.3359 (181.12); 3.3008 (0.45); 3.0859 (0.55); 3.0808 (1.06); 3.0716 (2.84); 3.0582 (16.00); 2.9841 (0.85); 2.8906 (2.19); 2.7318 (1.71); 2.7307 (1.65); 2.6762 (0.32); 2.6716 (0.45); 2.6670 (0.33); 2.5484 (0.34); 2.5343 (0.39); 2.5250 (1.32); 2.5201 (2.11); 2.5117 (26.87); 2.5071 (53.88); 2.5025 (71.21); 2.4979 (51.70); 2.4934 (24.61); 2.3822 (0.50); 2.3338 (0.35); 2.3292 (0.47); 2.3247 (0.34); 1.2349 (0.42); 0.0079 (0.69); -0.0002 (21.52); -0.0085 (0.66)

Example 280, Solvent: DMSO, Spectrometer: 400,13 MHz

10.5230 (2.44); 8.0938 (1.50); 8.0731 (1.78); 7.8439 (1.38); 7.8244 (2.03); 7.8043 (1.29); 7.7289 (2.98); 7.7111 (3.71); 7.7074 (2.72); 7.5768 (0.52); 7.5738 (0.37); 7.5651 (0.44); 7.5585 (1.80); 7.5529 (0.59); 7.5435 (1.08); 7.5404 (1.59); 7.5119 (2.76); 7.4963 (1.92); 7.4927 (3.41); 7.4791 (0.59); 7.4751 (1.29); 7.4720 (0.80); 7.1436 (2.08); 7.1254 (1.99); 5.3696 (7.11); 3.5033 (0.91); 3.4852 (3.04); 3.4670 (3.10); 3.4489 (0.96); 3.3413 (12.46); 2.5602 (0.35); 2.5324 (0.52); 2.5186 (11.43); 2.5145 (23.19); 2.5101 (31.21); 2.5057 (22.84); 2.4646 (0.39); 2.4601 (0.46); 2.4556 (0.33); 2.2822 (3.82); 2.2643 (4.64); 2.1022 (0.46); 2.0853 (0.83); 2.0684 (0.98); 2.0513 (0.77); 2.0341 (0.41); 1.0578 (3.39); 1.0397 (7.59); 1.0215 (3.33); 0.9258 (16.00); 0.9091 (15.75); 0.8953 (0.76); 0.8759 (0.34)

Example 281, Solvent: DMSO, Spectrometer: 399,95 MHz

11.0200 (2.46); 8.3677 (1.55); 8.3636 (2.85); 8.3595 (1.59); 8.1509 (1.72); 8.1305 (2.07); 8.0224 (0.91); 8.0198 (1.25); 8.0161 (0.96); 8.0028 (1.00); 8.0000 (1.28); 7.9965 (0.99); 7.9676 (1.01); 7.9649 (1.26); 7.9612 (1.03); 7.9533 (1.19); 7.9482 (1.33); 7.9443 (1.35); 7.9417 (0.99); 7.9289 (1.34); 7.9095 (1.89); 7.8893 (1.20); 7.7370 (2.65); 7.7242 (0.78); 7.7191 (3.38); 7.7153 (2.38); 7.5677 (0.48); 7.5559 (0.35); 7.5493 (1.69); 7.5437 (0.48); 7.5344 (0.88); 7.5312 (1.44); 7.5278 (0.73); 7.5015 (2.46); 7.4861 (1.65); 7.4823 (3.14); 7.4688 (0.48); 7.4647 (1.22); 7.4615 (0.68); 7.3370 (1.49); 7.3174 (2.77); 7.2978 (1.35); 7.2416 (1.89); 7.2232 (1.81); 5.4172 (6.36); 3.3294 (54.36); 3.0805 (16.00); 2.8908 (8.70); 2.7319 (7.06); 2.5250 (0.74); 2.5118 (13.92); 2.5073 (27.85); 2.5027 (36.77); 2.4981 (26.76); 2.4936 (12.83); 0.0080 (0.38); -0.0002 (11.62); -0.0085 (0.35)

Example 282, Solvent: DMSO, Spectrometer: 400,13 MHz

10.0952 (3.12); 7.8296 (0.38); 7.8084 (2.33); 7.8011 (2.52); 7.7944 (5.57); 7.7801 (0.48); 7.7305 (2.80); 7.7175 (0.87); 7.7126 (3.46); 7.7089 (2.53); 7.5694 (0.50); 7.5664 (0.34); 7.5575 (0.38); 7.5511 (1.71); 7.5456 (0.52); 7.5360 (0.93); 7.5329 (1.47); 7.5024 (2.53); 7.4867 (1.76); 7.4832 (3.22); 7.4695 (0.51); 7.4655 (1.21); 7.4625 (0.73); 7.1017 (1.33); 7.0949 (1.30); 7.0877 (1.16); 7.0810 (1.27); 5.7679 (0.50); 5.3323

(6.88); 4.8468 (0.51); 4.8312 (0.81); 4.8146 (0.82); 4.7991 (0.52); 3.4002 (1.35); 3.3506 (114.16); 3.3011 (1.16); 3.0779 (16.00); 2.5599 (0.44); 2.5554 (0.36); 2.5327 (0.62); 2.5190 (13.97); 2.5148 (28.89); 2.5104 (39.28); 2.5060 (28.69); 2.5019 (13.86); 2.4655 (0.34); 2.4610 (0.45); 2.4565 (0.37); 1.9969 (0.77); 1.5931 (0.52); 1.5889 (0.34); 1.5787 (0.44); 1.5745 (0.45); 1.5693 (0.69); 1.5603 (0.45); 1.5550 (0.54); 1.5507 (0.51); 1.5361 (0.69); 1.5193 (0.54); 1.5130 (0.44); 1.5053 (0.52); 1.4993 (0.65); 1.4835 (0.66); 1.4633 (0.34); 1.3874 (0.66); 1.3708 (0.99); 1.3540 (1.17); 1.3476 (0.93); 1.3362 (0.80); 1.3311 (0.84); 1.3193 (0.34); 1.3133 (0.54); 1.2355 (7.10); 1.2198 (7.05); 1.1814 (0.45); 0.9132 (3.75); 0.8949 (7.77); 0.8766 (3.27)

Example 283, Solvent: DMSO, Spectrometer: 400,13 MHz

11.4597 (1.60); 7.9113 (0.78); 7.8913 (1.69); 7.8723 (1.17); 7.7326 (2.70); 7.7198 (0.86); 7.7148 (3.40); 7.7111 (2.45); 7.5694 (0.49); 7.5663 (0.33); 7.5574 (0.38); 7.5511 (1.66); 7.5455 (0.51); 7.5360 (0.89); 7.5328 (1.43); 7.5296 (0.77); 7.5009 (2.42); 7.4854 (1.71); 7.4818 (3.12); 7.4681 (0.50); 7.4641 (1.21); 7.4610 (0.72); 7.2536 (1.56); 7.2332 (1.50); 5.7642 (6.38); 5.3885 (6.64); 4.4197 (2.03); 4.4033 (4.31); 4.3868 (2.06); 3.3963 (1.56); 3.3463 (92.86); 3.2958 (0.99); 3.0685 (16.00); 2.5577 (0.46); 2.5532 (0.38); 2.5301 (0.55); 2.5166 (10.67); 2.5122 (21.77); 2.5077 (29.27); 2.5033 (20.86); 2.4990 (9.75); 1.7398 (1.09); 1.7229 (2.25); 1.7047 (2.31); 1.6877 (1.16); 0.9557 (3.48); 0.9373 (7.16); 0.9187 (3.18)

Example 284, Solvent: DMSO, Spectrometer: 399,95 MHz

10.5363 (2.05); 8.1219 (1.42); 8.1013 (1.65); 7.8375 (1.30); 7.8182 (1.79); 7.7979 (1.24); 7.7335 (0.33); 7.7254 (2.71); 7.7216 (1.38); 7.7128 (0.87); 7.7076 (3.63); 7.7039 (2.48); 7.5641 (0.50); 7.5609 (0.33); 7.5521 (0.38); 7.5457 (1.68); 7.5401 (0.52); 7.5307 (0.88); 7.5274 (1.43); 7.5241 (0.75); 7.4955 (2.51); 7.4920 (1.10); 7.4800 (1.70); 7.4762 (3.21); 7.4626 (0.49); 7.4586 (1.26); 7.4554 (0.71); 7.1502 (1.83); 7.1323 (1.77); 5.3644 (6.20); 3.3298 (63.56); 3.2303 (0.37); 3.0552 (16.00); 2.8911 (1.33); 2.7316 (1.05); 2.5431 (0.40); 2.5316 (0.63); 2.5254 (0.90); 2.5205 (1.60); 2.5122 (12.11); 2.5078 (23.99); 2.5032 (31.50); 2.4985 (23.15); 2.4940 (11.22); 1.5746 (0.50); 1.5575 (0.66); 1.5519 (0.59); 1.5413 (0.89); 1.5347 (0.68); 1.5233 (0.78); 1.5194 (0.75); 1.5010 (0.54); 1.4484 (0.42); 1.4353 (0.52); 1.4299 (0.50); 1.4164 (0.65); 1.4019 (0.51); 1.3969 (0.51); 1.3892 (0.49); 1.3835 (0.47); 1.3770 (0.52); 1.3645 (0.60); 1.3523 (0.52); 1.3436 (0.37); 1.3317 (0.46); 1.3193 (0.32); 1.3068 (0.41); 1.3001 (0.47); 1.2817 (1.02); 1.2632 (1.34); 1.2451 (1.38); 1.2287 (1.07); 1.2220 (0.79); 1.2059 (0.95); 1.1933 (0.56); 1.1888 (0.51); 1.1739 (0.49); 1.1624 (0.36); 0.8759 (0.71); 0.8624 (0.55); 0.8568 (0.68); 0.8470 (4.95); 0.8291 (10.76); 0.8108 (5.01); -0.0002 (5.59)

Example 285, Solvent: DMSO, Spectrometer: 399,95 MHz

10.0705 (2.77); 7.9536 (0.36); 7.8216 (0.41); 7.8005 (2.24); 7.7921 (2.44); 7.7860 (5.46); 7.7711 (0.49); 7.7226 (2.67); 7.7187 (1.30); 7.7098 (0.84); 7.7048 (3.49); 7.7010 (2.43); 7.5621 (0.50); 7.5503 (0.37); 7.5438 (1.67); 7.5381 (0.49); 7.5289 (0.91); 7.5256 (1.45); 7.5222 (0.74); 7.4951 (2.47); 7.4919 (1.05); 7.4797 (1.72); 7.4760 (3.15); 7.4624 (0.51); 7.4583 (1.24); 7.4551 (0.70); 7.0950 (1.33); 7.0886 (1.32); 7.0806 (1.15); 7.0742 (1.26); 5.3254 (6.53); 4.8215 (0.47); 4.8062 (0.78); 4.7893 (0.78); 4.7738 (0.48); 3.3407 (96.03); 3.0703 (16.00); 2.8915 (2.89); 2.7327 (2.25); 2.7320 (2.25); 2.5262 (0.53); 2.5213 (0.88); 2.5129 (10.07); 2.5085 (19.85); 2.5039 (26.06); 2.4993 (18.98); 2.4948 (9.12); 1.5881 (0.36); 1.5747 (0.42); 1.5658 (0.48); 1.5564 (0.42); 1.5509 (0.51); 1.5322 (0.59); 1.5152 (0.44); 1.5066 (0.54); 1.4929 (0.46); 1.3536 (0.50); 1.3363 (0.71); 1.3321 (0.72); 1.3193 (0.78); 1.3149 (0.81); 1.3045 (0.94); 1.2950 (1.34); 1.2863 (1.61); 1.2797 (2.04); 1.2703 (3.01); 1.2541 (1.61); 1.2431 (0.80); 1.2287 (6.76); 1.2130 (6.55); 0.8749 (1.76); 0.8582 (5.20); 0.8411 (1.83); -0.0002 (4.73)

Example 286, Solvent: DMSO, Spectrometer: 399,95 MHz

11.7750 (1.35); 7.9533 (0.60); 7.7398 (0.37); 7.7340 (2.02); 7.7314 (2.73); 7.7275 (1.36); 7.7189 (0.84); 7.7138 (3.47); 7.7100 (2.46); 7.5626 (0.51); 7.5594 (0.34); 7.5512 (0.38); 7.5443 (1.73); 7.5384 (0.52); 7.5296 (0.99); 7.5262 (1.55); 7.5227 (0.77); 7.5004 (2.57); 7.4971 (1.18); 7.4854 (1.72); 7.4814 (3.18); 7.4680 (0.52); 7.4639 (1.26); 7.4603 (0.76); 7.2548 (3.95); 5.3572 (0.33); 5.2852 (5.91); 3.9704 (0.55); 3.9495 (4.69); 3.9327 (4.70); 3.3295 (58.14); 3.0320 (16.00); 3.0231 (0.61); 3.0055 (0.91); 2.8909 (4.96); 2.7322 (3.94); 2.7313 (3.79); 2.5251 (0.61); 2.5203 (1.00); 2.5118 (11.94); 2.5073 (23.81); 2.5027 (31.39); 2.4981 (22.76); 2.4936 (10.82); 1.9567 (0.44); 1.9399 (0.86); 1.9231 (1.11); 1.9063 (0.90); 1.8896 (0.45); 1.2350 (0.33); 1.1216 (0.52); 1.1064 (0.51); 0.9226 (15.33); 0.9058 (14.86); 0.8933 (0.33); 0.7691 (1.58); 0.7522 (1.53); 0.0079 (0.35); -0.0002 (10.48); -0.0085 (0.32)

Example 287, Solvent: DMSO, Spectrometer: 399,95 MHz

10.7077 (2.17); 8.0144 (1.38); 7.9939 (1.80); 7.9534 (0.62); 7.8623 (1.36); 7.8430 (1.89); 7.8227 (1.15); 7.7275 (2.71); 7.7146 (0.94); 7.7097 (3.53); 7.7060 (2.49); 7.5683 (0.51); 7.5651 (0.34); 7.5562 (0.42); 7.5500 (1.70); 7.5444 (0.52); 7.5350 (0.95); 7.5317 (1.46); 7.5284 (0.75); 7.4994 (2.48); 7.4838 (1.86); 7.4802 (3.21); 7.4665 (0.56); 7.4624 (1.28); 7.4594 (0.74); 7.1953 (1.87); 7.1770 (1.81); 7.0770 (2.58); 7.0565 (3.04); 6.8270 (0.55); 6.8201 (3.88); 6.8154 (1.29); 6.8032 (1.28); 6.7986 (3.28); 6.7914 (0.35); 5.3807 (6.32); 5.0371 (0.35); 5.0208 (1.21); 5.0043 (1.22); 4.9881 (0.35); 3.3311 (69.44); 3.0567 (16.00); 2.8905 (4.81); 2.7320 (3.89); 2.5250 (0.77); 2.5117 (14.21); 2.5073 (26.90); 2.5027 (34.43); 2.4981 (24.82); 2.4937 (11.83); 2.1976 (10.16); 1.5119 (5.69); 1.4954 (5.63); -0.0002 (4.65)

Example 288, Solvent: DMSO, Spectrometer: 399,95 MHz

10.4500 (2.47); 7.9533 (1.17); 7.8545 (0.85); 7.8337 (1.78); 7.8155 (1.90); 7.7901 (2.36); 7.7711 (1.12); 7.7244 (2.84); 7.7115 (0.89); 7.7066 (3.55); 7.7028 (2.54); 7.5624 (0.51); 7.5593 (0.34); 7.5506 (0.39); 7.5441 (1.74); 7.5385 (0.54); 7.5291 (0.96); 7.5259 (1.49); 7.5226 (0.80); 7.4958 (2.63); 7.4802 (1.83); 7.4766 (3.33); 7.4629 (0.53); 7.4589 (1.28); 7.4558 (0.74); 7.1345 (1.71); 7.1328 (1.71); 7.1166 (1.68); 7.1148 (1.58); 5.3445 (6.69); 4.3068 (2.26); 4.2918 (4.59); 4.2767 (2.35); 3.3322 (55.35); 3.0881 (0.45); 3.0698 (16.00); 2.9408 (2.44); 2.9257 (4.72); 2.9107 (2.35); 2.8907 (8.90); 2.7315 (7.16); 2.5252 (0.58); 2.5119 (10.49); 2.5074 (20.47); 2.5029 (26.75); 2.4983 (19.59); 2.4939 (9.53); -0.0002 (4.03)

Example 289, Solvent: DMSO, Spectrometer: 399,95 MHz

12.8382 (0.82); 8.2864 (1.50); 8.2819 (2.62); 8.2774 (1.51); 8.0804 (0.90); 8.0778 (1.16); 8.0741 (0.90); 8.0608 (1.00); 8.0571 (1.22); 8.0545 (0.94); 7.9532 (0.46); 7.8530 (0.83); 7.8508 (0.95); 7.8482 (0.90); 7.8461 (0.82); 7.8330 (0.96); 7.8308 (1.03); 7.8282 (1.05); 7.8261 (0.89); 7.7496 (1.91); 7.7471 (2.60); 7.7431 (1.26); 7.7346 (0.77); 7.7295 (3.35); 7.7256 (2.30); 7.5686 (0.46); 7.5574 (0.33); 7.5503 (1.64); 7.5443 (0.51); 7.5327 (2.72); 7.5288 (0.89); 7.5134 (3.05); 7.5080 (2.62); 7.5046 (1.13); 7.4934 (2.73); 7.4890 (3.11); 7.4757 (0.49); 7.4715 (1.23);

7.4679 (0.72); 7.3997 (3.42); 5.3866 (5.58); 3.3426 (101.07); 3.0219 (16.00); 2.8915 (3.90); 2.7329 (3.01); 2.7320 (3.03); 2.5265 (0.57); 2.5217 (0.91); 2.5132 (11.98); 2.5086 (24.12); 2.5040 (31.99); 2.4994 (23.20); 2.4949 (11.01); -0.0002 (3.13)
Example 290, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3988 (2.83); 7.8336 (2.30); 7.8287 (2.35); 7.8207 (5.19); 7.8077 (0.34); 7.4434 (0.79); 7.4388 (1.18); 7.4220 (3.44); 7.4190 (3.83); 7.4157 (2.78); 7.4131 (2.79); 7.4076 (0.68); 7.3984 (3.61); 7.3958 (3.68); 7.3913 (1.19); 7.3792 (2.33); 7.3602 (0.72); 7.3557 (1.14); 7.3508 (0.57); 7.3459 (0.51); 7.3384 (1.09); 7.3215 (0.37); 7.2813 (1.35); 7.2790 (1.22); 7.2656 (0.72); 7.2618 (1.13); 7.2596 (0.95); 7.2437 (1.47); 7.2377 (1.88); 7.2336 (1.31); 7.1422 (1.05); 7.1403 (1.12); 7.1360 (1.09); 7.1341 (0.98); 7.1226 (1.64); 7.1154 (2.04); 7.1027 (1.16); 5.7688 (7.76); 5.3422 (5.76); 5.1856 (6.65); 3.7858 (16.00); 3.4000 (1.19); 3.3500 (96.57); 3.3264 (0.61); 3.3000 (0.91); 3.0634 (0.62); 3.0542 (14.52); 2.5599 (0.33); 2.5187 (9.19); 2.5143 (19.51); 2.5098 (26.74); 2.5053 (19.07); 2.5009 (8.79); 1.9968 (0.40)
Example 291, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5535 (2.45); 8.0774 (1.51); 8.0567 (1.87); 7.9531 (1.07); 7.8944 (1.41); 7.8749 (2.05); 7.8549 (1.20); 7.7282 (2.93); 7.7103 (3.67); 7.7066 (2.68); 7.5666 (0.53); 7.5636 (0.36); 7.5546 (0.42); 7.5483 (1.81); 7.5428 (0.57); 7.5331 (1.02); 7.5301 (1.54); 7.5269 (0.85); 7.4990 (2.71); 7.4798 (3.47); 7.4659 (0.58); 7.4621 (1.33); 7.4591 (0.82); 7.3608 (1.26); 7.3418 (1.65); 7.2478 (0.66); 7.2297 (1.44); 7.2120 (2.96); 7.1941 (2.57); 7.1785 (1.52); 7.1614 (0.69); 7.0748 (1.56); 7.0567 (1.15); 5.3861 (6.82); 4.9128 (0.91); 4.8752 (2.31); 4.8329 (2.03); 4.7953 (0.79); 4.1945 (1.83); 4.1732 (1.91); 3.3299 (76.90); 3.2517 (0.66); 3.2333 (0.92); 3.2148 (0.63); 3.0958 (0.46); 3.0854 (0.44); 3.0703 (16.00); 2.8904 (7.84); 2.7317 (6.48); 2.5246 (0.89); 2.5113 (15.64); 2.5069 (30.26); 2.5024 (39.50); 2.4979 (29.41); 2.4936 (14.76); 1.2661 (6.42); 1.2488 (6.34); 1.2353 (0.43); -0.0002 (8.21)
Example 292, Solvent: DMSO, Spectrometer: 400,13 MHz
10.0906 (2.91); 7.8316 (0.45); 7.8106 (2.16); 7.8001 (2.59); 7.7951 (4.96); 7.7795 (0.62); 7.7311 (2.80); 7.7181 (0.96); 7.7132 (3.48); 7.7096 (2.55); 7.5696 (0.51); 7.5665 (0.36); 7.5578 (0.42); 7.5513 (1.71); 7.5457 (0.55); 7.5363 (0.97); 7.5331 (1.51); 7.5299 (0.83); 7.5029 (2.57); 7.4873 (1.82); 7.4837 (3.22); 7.4701 (0.55); 7.4661 (1.22); 7.4630 (0.76); 7.1024 (1.36); 7.0967 (1.35); 7.0874 (1.22); 7.0817 (1.29); 5.7644 (2.15); 5.3389 (6.96); 4.6343 (1.09); 4.6189 (1.59); 4.6034 (1.10); 3.3258 (8.17); 3.3019 (0.51); 3.0752 (16.00); 2.5643 (0.36); 2.5598 (0.50); 2.5553 (0.37); 2.5184 (10.46); 2.5141 (20.80); 2.5097 (27.75); 2.5052 (20.12); 2.5011 (9.73); 1.9967 (0.88); 1.8155 (0.55); 1.7987 (0.87); 1.7834 (0.90); 1.7666 (0.60); 1.2867 (0.39); 1.2527 (1.85); 1.2003 (0.46); 1.1879 (7.34); 1.1720 (7.27); 0.9252 (6.99); 0.9176 (7.32); 0.9083 (7.07); 0.9007 (6.78); 0.8824 (0.96); 0.8657 (2.52); 0.8481 (1.04)
Example 293, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2789 (3.15); 7.8438 (0.62); 7.8228 (1.93); 7.8054 (3.57); 7.8002 (2.69); 7.7832 (0.75); 7.7793 (0.42); 7.7257 (2.84); 7.7078 (3.51); 7.7041 (2.48); 7.5642 (0.52); 7.5610 (0.35); 7.5520 (0.42); 7.5457 (1.74); 7.5402 (0.52); 7.5307 (0.93); 7.5275 (1.46); 7.4965 (2.61); 7.4809 (1.82); 7.4773 (3.26); 7.4636 (0.54); 7.4596 (1.24); 7.4567 (0.74); 7.1155 (1.45); 7.1117 (1.47); 7.0989 (1.36); 7.0951 (1.37); 5.3380 (6.63); 4.1862 (1.65); 4.1705 (3.40); 4.1547 (1.67); 3.3866 (0.40); 3.3374 (24.34); 3.2878 (0.41); 3.0613 (16.00); 2.5124 (2.45); 2.5081 (4.96); 2.5036 (6.66); 2.4992 (4.73); 2.4950 (2.19); 2.4122 (0.34); 2.3838 (0.60); 2.3638 (0.66); 2.3425 (0.65); 2.3154 (0.35); 1.9055 (0.43); 1.8899 (1.05); 1.8748 (1.00); 1.8663 (1.06); 1.8497 (0.95); 1.8339 (0.36); -0.0002 (3.50)
Example 294, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6890 (2.49); 8.1522 (0.93); 8.1315 (1.09); 7.8916 (1.25); 7.8721 (1.85); 7.8520 (1.16); 7.8050 (1.30); 7.8008 (1.38); 7.7857 (1.46); 7.7815 (1.41); 7.7131 (2.66); 7.7003 (0.83); 7.6952 (3.45); 7.6916 (2.47); 7.5588 (0.53); 7.5557 (0.33); 7.5466 (0.41); 7.5406 (1.71); 7.5349 (0.52); 7.5224 (2.03); 7.5186 (1.47); 7.5043 (1.15); 7.5021 (1.24); 7.5001 (1.26); 7.4979 (1.10); 7.4869 (2.60); 7.4837 (2.02); 7.4794 (1.19); 7.4712 (1.81); 7.4677 (3.23); 7.4540 (0.53); 7.4499 (1.28); 7.4469 (0.76); 7.4106 (1.68); 7.4054 (0.66); 7.3918 (2.78); 7.3893 (2.68); 7.3753 (0.88); 7.3706 (2.30); 7.2762 (1.04); 7.2738 (1.03); 7.2572 (1.72); 7.2551 (1.68); 7.2386 (0.87); 7.2362 (0.84); 7.2005 (1.89); 7.1871 (1.28); 7.1822 (1.99); 7.1687 (1.87); 7.1525 (0.51); 7.1501 (0.83); 7.1476 (0.52); 7.1309 (2.34); 7.1286 (2.70); 7.1093 (2.38); 6.9056 (1.77); 6.9041 (1.75); 6.8849 (1.69); 5.3532 (5.98); 3.3296 (46.78); 3.0321 (16.00); 2.8901 (1.73); 2.7318 (1.42); 2.7307 (1.38); 2.5249 (0.61); 2.5200 (0.95); 2.5115 (11.41); 2.5070 (22.62); 2.5024 (29.74); 2.4978 (21.66); 2.4933 (10.40); -0.0002 (7.59)
Example 295, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2021 (3.03); 7.8194 (2.48); 7.8139 (2.57); 7.8063 (5.69); 7.7929 (0.38); 7.6238 (0.66); 7.6198 (0.99); 7.6141 (0.93); 7.6087 (0.73); 7.6054 (1.17); 7.6020 (0.92); 7.5989 (0.96); 7.5945 (1.23); 7.5884 (2.44); 7.5859 (2.27); 7.5638 (0.76); 7.5496 (0.85); 7.5436 (1.15); 7.5292 (1.21); 7.5239 (0.60); 7.5086 (0.53); 7.4333 (0.52); 7.4305 (0.58); 7.4271 (0.53); 7.4241 (0.49); 7.4093 (0.93); 7.4053 (0.81); 7.3911 (0.42); 7.3883 (0.43); 7.3850 (0.40); 7.3822 (0.34); 7.1167 (1.31); 7.1091 (1.31); 7.1036 (1.13); 7.0960 (1.26); 5.7681 (4.69); 5.3569 (6.73); 4.1129 (2.13); 4.0963 (4.54); 4.0797 (2.17); 3.4003 (0.73); 3.3503 (83.72); 3.3005 (0.85); 3.0656 (16.00); 2.5321 (0.53); 2.5185 (12.25); 2.5142 (25.77); 2.5097 (35.14); 2.5053 (25.40); 2.5009 (11.99); 2.4642 (0.35); 2.4599 (0.42); 1.6318 (0.45); 1.6147 (1.42); 1.6084 (0.53); 1.5974 (1.82); 1.5777 (1.54); 1.5611 (0.62); 1.4181 (0.32); 1.3996 (1.13); 1.3805 (1.78); 1.3616 (1.80); 1.3435 (1.07); 0.9310 (4.22); 0.9127 (8.61); 0.8941 (3.62)
Example 296, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5653 (2.11); 8.0322 (0.93); 8.0114 (1.20); 7.9526 (0.57); 7.8814 (1.32); 7.8622 (1.82); 7.8419 (1.12); 7.7279 (2.60); 7.7241 (1.26); 7.7152 (0.80); 7.7101 (3.42); 7.7064 (2.39); 7.5680 (0.49); 7.5560 (0.37); 7.5497 (1.65); 7.5439 (0.49); 7.5347 (0.88); 7.5314 (1.42); 7.5280 (0.72); 7.5001 (2.40); 7.4967 (1.02); 7.4847 (1.67); 7.4809 (3.11); 7.4673 (0.49); 7.4633 (1.23); 7.4601 (0.69); 7.2018 (1.78); 7.1835 (1.74); 7.1030 (2.47); 7.0826 (2.95); 6.8616 (0.47); 6.8542 (3.89); 6.8491 (1.20); 6.8377 (1.13); 6.8327 (3.27); 5.3810 (6.19); 4.7431 (6.57); 3.3497 (123.82); 3.0655 (16.00); 2.8907 (4.55); 2.7323 (3.65); 2.7313 (3.54); 2.5260 (0.60); 2.5128 (11.48); 2.5083 (22.74); 2.5037 (29.82); 2.4991 (21.60); 2.4946 (10.25); 2.2250 (10.15); -0.0002 (2.80)
Example 297, Solvent: DMSO, Spectrometer: 400,13 MHz
7.3734 (0.52); 7.3625 (0.62); 5.8215 (0.71); 5.4128 (0.36); 3.4142 (16.00); 3.1179 (0.93); 2.5748 (0.94); 2.5704 (1.97); 2.5659 (2.68); 2.5614 (1.90); 2.5570 (0.88)

Example 298, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2484 (2.39); 7.9534 (0.83); 7.8248 (0.61); 7.8038 (1.65); 7.7867 (2.12); 7.7805 (1.88); 7.7772 (2.09); 7.7597 (0.68); 7.7563 (0.46); 7.7251 (1.89); 7.7226 (2.41); 7.7187 (1.18); 7.7099 (0.77); 7.7048 (3.20); 7.7011 (2.24); 7.6211 (1.42); 7.6182 (1.43); 7.6011 (1.55); 7.5982 (1.49); 7.5628 (0.46); 7.5509 (0.35); 7.5445 (1.55); 7.5388 (0.47); 7.5296 (0.84); 7.5262 (1.35); 7.5228 (0.69); 7.4956 (2.24); 7.4922 (0.97); 7.4802 (1.55); 7.4765 (2.89); 7.4629 (0.48); 7.4588 (1.19); 7.4556 (0.70); 7.4476 (0.99); 7.4433 (1.04); 7.4285 (1.51); 7.4243 (1.46); 7.3636 (0.83); 7.3606 (0.84); 7.3451 (1.48); 7.3421 (1.40); 7.3263 (0.74); 7.3232 (0.69); 7.2615 (0.42); 7.2452 (0.46); 7.2151 (0.84); 7.2107 (0.83); 7.1956 (1.11); 7.1918 (1.06); 7.1768 (0.62); 7.1724 (0.58); 7.1076 (1.33); 7.1042 (1.34); 7.0905 (1.29); 7.0870 (1.25); 5.3310 (5.73); 4.3271 (1.48); 4.3099 (3.37); 4.2927 (1.54); 3.3297 (54.92); 3.0986 (1.40); 3.0814 (2.94); 3.0634 (16.00); 2.8907 (6.64); 2.7322 (5.40); 2.7310 (5.22); 2.5252 (0.66); 2.5118 (11.96); 2.5073 (23.52); 2.5027 (30.86); 2.4981 (22.42); 2.4936 (10.72); -0.0002 (7.07)
Example 300, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1755 (6.27); 7.8379 (1.21); 7.8168 (4.35); 7.8011 (9.36); 7.7974 (6.41); 7.7874 (0.39); 7.7810 (1.42); 7.7763 (0.68); 7.7288 (4.42); 7.7264 (5.89); 7.7224 (2.90); 7.7138 (1.80); 7.7087 (7.61); 7.7049 (5.26); 7.5779 (0.59); 7.5748 (1.08); 7.5716 (0.75); 7.5631 (0.92); 7.5565 (3.72); 7.5507 (1.19); 7.5417 (2.13); 7.5383 (3.32); 7.5349 (1.70); 7.5105 (5.53); 7.5071 (2.44); 7.4953 (3.67); 7.4914 (6.78); 7.4779 (1.12); 7.4738 (2.70); 7.4705 (1.53); 7.0992 (3.00); 7.0946 (3.03); 7.0831 (2.78); 7.0785 (2.83); 5.3451 (14.17); 4.1046 (4.42); 4.0879 (9.60); 4.0712 (4.48); 3.5266 (1.80); 3.5085 (6.12); 3.4903 (6.24); 3.4722 (1.91); 3.4170 (0.98); 3.3670 (69.16); 3.3169 (0.75); 2.5647 (0.39); 2.5602 (0.58); 2.5557 (0.41); 2.5325 (0.90); 2.5191 (16.36); 2.5147 (33.99); 2.5102 (46.37); 2.5056 (32.84); 2.5012 (15.09); 2.4644 (0.37); 2.4600 (0.49); 2.4557 (0.37); 1.6470 (0.54); 1.6293 (1.98); 1.6121 (3.17); 1.5949 (2.25); 1.5778 (0.71); 1.3719 (1.55); 1.3653 (0.56); 1.3477 (2.42); 1.3444 (2.31); 1.3372 (4.03); 1.3296 (8.24); 1.3207 (6.12); 1.3116 (5.42); 1.2783 (0.39); 1.2413 (0.56); 1.0620 (6.97); 1.0439 (16.00); 1.0256 (6.73); 0.9020 (4.14); 0.8958 (2.36); 0.8887 (3.98); 0.8846 (11.41); 0.8728 (2.50); 0.8667 (3.29); 0.8535 (0.33)
Example 301, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5817 (2.01); 8.0676 (1.09); 8.0469 (1.31); 7.9533 (0.61); 7.8393 (1.24); 7.8200 (1.68); 7.7997 (1.13); 7.7234 (1.93); 7.7207 (2.49); 7.7168 (1.18); 7.7080 (0.75); 7.7029 (3.37); 7.6992 (2.32); 7.5640 (0.48); 7.5521 (0.35); 7.5457 (1.60); 7.5400 (0.47); 7.5308 (0.84); 7.5274 (1.39); 7.5240 (0.69); 7.4957 (2.34); 7.4922 (0.98); 7.4803 (1.60); 7.4765 (3.03); 7.4629 (0.47); 7.4588 (1.22); 7.4556 (0.67); 7.2924 (1.43); 7.2870 (0.61); 7.2783 (1.68); 7.2706 (1.96); 7.2621 (0.73); 7.2566 (1.76); 7.1448 (1.71); 7.1259 (1.76); 7.1173 (2.20); 7.1118 (0.63); 7.1008 (0.73); 7.0949 (3.46); 7.0889 (0.72); 7.0779 (0.59); 7.0726 (1.70); 5.3495 (5.92); 3.3272 (45.85); 3.0539 (0.44); 3.0439 (16.00); 2.9030 (0.99); 2.8904 (5.61); 2.8848 (2.09); 2.8648 (1.47); 2.7318 (4.10); 2.7308 (3.99); 2.7112 (1.68); 2.6911 (2.30); 2.6724 (1.23); 2.5250 (0.71); 2.5202 (1.11); 2.5115 (13.41); 2.5070 (26.81); 2.5024 (35.26); 2.4978 (25.40); 2.4932 (11.99); 0.0080 (0.42); -0.0002 (12.90); -0.0085 (0.38)
Example 302, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5751 (1.95); 8.0622 (1.18); 8.0415 (1.42); 7.8378 (1.28); 7.8186 (1.79); 7.7983 (1.19); 7.7239 (2.63); 7.7201 (1.30); 7.7112 (0.81); 7.7061 (3.53); 7.7023 (2.40); 7.5646 (0.48); 7.5527 (0.37); 7.5463 (1.68); 7.5406 (0.49); 7.5314 (0.89); 7.5280 (1.44); 7.5247 (0.73); 7.4975 (2.46); 7.4941 (1.05); 7.4821 (1.68); 7.4784 (3.15); 7.4648 (0.49); 7.4607 (1.24); 7.4575 (0.69); 7.1459 (1.79); 7.1275 (1.75); 5.3552 (6.34); 3.3313 (57.75); 3.0564 (16.00); 2.8909 (0.69); 2.8048 (1.11); 2.7982 (2.33); 2.7916 (1.11); 2.7322 (0.57); 2.5253 (0.64); 2.5205 (1.04); 2.5120 (11.23); 2.5075 (22.90); 2.5029 (28.76); 2.4983 (20.75); 2.4938 (10.21); 2.4883 (4.07); 2.4697 (1.89); 2.2215 (1.06); 2.2149 (1.11); 2.2035 (2.52); 2.1969 (2.46); 2.1858 (1.30); 2.1792 (1.22); 1.7808 (0.50); 1.7628 (1.78); 1.7446 (2.56); 1.7265 (1.66); 1.7082 (0.39); 0.8758 (0.46); -0.0002 (5.54)
Example 303, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5034 (2.10); 8.0708 (1.22); 8.0501 (1.45); 7.8310 (1.27); 7.8118 (1.75); 7.7914 (1.20); 7.7258 (2.01); 7.7234 (2.56); 7.7195 (1.26); 7.7106 (0.79); 7.7055 (3.50); 7.7017 (2.38); 7.5638 (0.49); 7.5520 (0.36); 7.5456 (1.65); 7.5399 (0.48); 7.5306 (0.87); 7.5273 (1.41); 7.5239 (0.71); 7.4961 (2.41); 7.4927 (1.01); 7.4807 (1.65); 7.4769 (3.08); 7.4633 (0.48); 7.4593 (1.23); 7.4560 (0.67); 7.1401 (1.75); 7.1217 (1.72); 5.3530 (6.14); 3.3298 (59.04); 3.0538 (16.00); 2.5255 (0.55); 2.5207 (0.88); 2.5122 (10.97); 2.5076 (21.92); 2.5030 (28.82); 2.4984 (20.84); 2.4939 (9.85); 2.3883 (1.42); 2.3699 (2.74); 2.3515 (1.55); 1.5786 (0.72); 1.5611 (1.06); 1.5439 (0.73); 1.2645 (4.43); 1.2525 (4.67); 1.2380 (7.50); 0.8757 (0.48); 0.8610 (1.82); 0.8441 (5.76); 0.8267 (1.94); -0.0002 (6.01)
Example 304, Solvent: DMSO, Spectrometer: 400,13 MHz
10.8355 (2.01); 8.1896 (1.63); 8.1692 (1.88); 7.8924 (1.28); 7.8729 (1.87); 7.8529 (1.22); 7.7345 (2.69); 7.7216 (0.91); 7.7167 (3.42); 7.7130 (2.45); 7.5740 (0.51); 7.5709 (0.35); 7.5620 (0.41); 7.5556 (1.64); 7.5500 (0.55); 7.5407 (0.94); 7.5374 (1.45); 7.5341 (0.78); 7.5063 (2.45); 7.4909 (1.73); 7.4872 (3.13); 7.4735 (0.55); 7.4695 (1.23); 7.4664 (0.72); 7.1973 (1.87); 7.1792 (1.78); 6.6584 (0.92); 6.6330 (1.09); 6.6159 (1.36); 6.5904 (1.30); 6.3429 (1.55); 6.3382 (1.57); 6.3004 (1.18); 6.2956 (1.16); 5.8106 (1.49); 5.8059 (1.27); 5.7853 (1.24); 5.7805 (1.38); 5.3846 (6.54); 3.4060 (4.17); 3.4030 (0.76); 3.3548 (290.02); 3.3064 (2.05); 3.3037 (2.28); 3.0602 (16.00); 2.6799 (0.45); 2.6755 (0.35); 2.5713 (0.43); 2.5668 (0.73); 2.5623 (0.90); 2.5577 (0.61); 2.5333 (1.13); 2.5197 (25.85); 2.5153 (54.79); 2.5109 (75.93); 2.5064 (57.01); 2.5020 (29.30); 2.4643 (1.40); 2.4599 (1.19); 2.3424 (0.35); 2.3378 (0.48); 2.3332 (0.37); 2.0844 (1.74)
Example 305, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1303 (1.45); 7.8128 (0.98); 7.8011 (1.25); 7.7970 (2.15); 7.7299 (1.32); 7.7120 (1.62); 7.7083 (1.19); 7.5496 (0.79); 7.5345 (0.45); 7.5314 (0.69); 7.5007 (1.20); 7.4849 (0.88); 7.4815 (1.51); 7.4639 (0.60); 7.1003 (0.64); 7.0950 (0.63); 7.0851 (0.58); 7.0797 (0.61); 5.3422 (3.17); 4.5504 (0.86); 4.5343 (0.87); 3.4017 (0.75); 3.3517 (60.76); 3.3007 (0.38); 3.0662 (7.33); 2.5121 (12.87); 2.5077 (17.01); 2.5034 (12.34); 1.1513 (3.30); 1.1352 (3.28); 0.9115 (16.00)
Example 306, Solvent: DMSO, Spectrometer: 400,13 MHz
10.4951 (2.75); 7.8642 (0.94); 7.8437 (1.78); 7.8249 (1.67); 7.7724 (2.22); 7.7523 (1.40); 7.7318 (2.74); 7.7189 (0.93); 7.7139 (3.47); 7.7102 (2.47); 7.5692 (0.51); 7.5660 (0.38); 7.5574 (0.42); 7.5509 (1.74); 7.5452 (0.54); 7.5359 (0.95); 7.5327 (1.47); 7.5294 (0.77); 7.5024 (2.51); 7.4869 (1.75); 7.4833 (3.18); 7.4697 (0.53); 7.4656 (1.24); 7.4625 (0.75); 7.1503 (1.82); 7.1326 (1.75); 5.7642 (5.61); 5.3520 (6.47); 5.2171

(0.63); 5.2130 (0.74); 5.2020 (1.22); 5.1979 (0.64); 5.1909 (0.70); 5.1866 (0.76); 4.0461 (0.40); 4.0283 (0.40); 3.9591 (1.44); 3.9480 (1.61); 3.9294 (3.60); 3.9185 (3.17); 3.8929 (3.27); 3.8774 (3.29); 3.8632 (1.54); 3.8478 (1.49); 3.3268 (10.91); 3.0843 (16.00); 2.5319 (0.47); 2.5186 (9.15); 2.5142 (18.42); 2.5097 (24.73); 2.5053 (17.65); 2.5009 (8.30); 1.9968 (1.70); 1.3740 (0.87); 1.2540 (0.46); 1.2004 (0.47); 1.1826 (0.90); 1.1648 (0.44); 0.8658 (0.64)
Example 307, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7662 (2.02); 7.9923 (0.70); 7.9716 (2.06); 7.9544 (3.68); 7.9488 (2.77); 7.9322 (0.83); 7.7339 (2.77); 7.7160 (3.50); 7.7123 (2.60); 7.5723 (0.59); 7.5693 (0.44); 7.5604 (0.52); 7.5541 (1.76); 7.5484 (0.66); 7.5391 (1.04); 7.5358 (1.54); 7.5326 (0.92); 7.5039 (2.87); 7.4999 (2.41); 7.4942 (1.14); 7.4844 (4.11); 7.4788 (3.45); 7.4666 (1.94); 7.4600 (3.02); 7.4060 (3.23); 7.3866 (1.99); 7.3629 (0.96); 7.3601 (1.32); 7.3419 (2.03); 7.3372 (1.99); 7.3332 (1.68); 7.3267 (0.82); 7.3203 (1.75); 7.3163 (1.45); 5.7616 (1.24); 5.4392 (6.75); 3.3368 (242.25); 3.2532 (0.67); 3.2134 (0.36); 3.0760 (16.00); 2.6760 (0.42); 2.6712 (0.35); 2.5157 (22.45); 2.5113 (44.00); 2.5069 (58.73); 2.5024 (42.83); 2.4982 (21.79); 2.3380 (0.36); 2.3339 (0.46); 2.3291 (0.35); 1.9936 (0.48); 1.2393 (0.34)
Example 308, Solvent: DMSO, Spectrometer: 400,13 MHz
8.4946 (0.35); 7.9608 (0.78); 7.5519 (5.07); 7.5313 (5.95); 7.2961 (5.25); 7.2760 (4.82); 7.0021 (3.34); 6.9834 (1.17); 6.9611 (0.58); 6.7589 (0.48); 6.7475 (0.48); 6.7362 (0.37); 6.7248 (0.36); 6.5653 (5.42); 5.2835 (0.60); 5.0766 (8.67); 3.1224 (0.36); 3.1101 (0.68); 3.1043 (1.12); 3.0860 (1.13); 3.0677 (0.42); 2.9646 (0.46); 2.9424 (0.59); 2.8976 (5.66); 2.7391 (4.59); 2.7380 (4.66); 2.5603 (0.41); 2.5557 (0.43); 2.5509 (0.42); 2.5331 (0.36); 2.5283 (0.65); 2.5194 (13.51); 2.5151 (29.37); 2.5106 (40.95); 2.5061 (30.28); 2.5018 (14.89); 2.4699 (0.46); 2.4652 (0.59); 2.4607 (0.70); 2.4562 (0.56); 2.4275 (0.36); 2.3926 (0.37); 2.3519 (16.00); 2.3206 (0.44); 2.3026 (0.40); 1.2036 (1.64); 1.1854 (3.50); 1.1672 (1.64)
Example 309, Solvent: DMSO, Spectrometer: 399,95 MHz
10.3176 (1.10); 7.9596 (0.98); 7.9575 (1.12); 7.9391 (2.11); 7.9369 (1.93); 7.9072 (1.61); 7.8887 (1.76); 7.8681 (0.91); 7.7338 (1.85); 7.7311 (2.43); 7.7272 (1.22); 7.7185 (0.80); 7.7134 (3.35); 7.7096 (2.29); 7.5668 (0.48); 7.5550 (0.35); 7.5485 (1.58); 7.5428 (0.48); 7.5336 (0.85); 7.5302 (1.41); 7.5268 (0.70); 7.5044 (0.48); 7.4992 (2.31); 7.4957 (1.02); 7.4839 (1.57); 7.4801 (2.97); 7.4665 (0.46); 7.4624 (1.21); 7.4592 (0.67); 7.2448 (1.48); 7.2426 (1.52); 7.2265 (1.48); 7.2243 (1.42); 5.4005 (6.19); 3.3294 (55.22); 3.0910 (0.33); 3.0797 (16.00); 3.0660 (0.33); 2.8907 (2.20); 2.7320 (1.76); 2.7308 (1.72); 2.5249 (0.59); 2.5201 (0.98); 2.5116 (10.84); 2.5071 (21.47); 2.5025 (28.28); 2.4978 (20.42); 2.4933 (9.62); 1.4784 (0.34); 1.4674 (0.47); 1.4617 (0.90); 1.4543 (1.07); 1.4427 (0.67); 1.4338 (0.37); 1.4165 (0.84); 1.4104 (1.10); 1.4085 (1.14); 1.3983 (0.82); 1.3868 (0.36); 1.3685 (0.70); 1.3573 (1.37); 1.3479 (1.50); 1.3366 (1.20); 1.3342 (1.17); 1.3289 (0.93); 1.3108 (0.36); 0.8756 (0.43); -0.0002 (5.94)
Example 310, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2343 (1.95); 8.1087 (0.50); 8.0893 (0.32); 7.9529 (1.04); 7.9064 (0.39); 7.8876 (0.32); 7.8227 (0.48); 7.8017 (1.47); 7.7847 (2.76); 7.7794 (1.93); 7.7624 (0.53); 7.7226 (2.31); 7.7048 (3.01); 7.7011 (2.12); 7.6822 (0.56); 7.6642 (0.64); 7.6608 (0.50); 7.5892 (0.36); 7.5695 (0.37); 7.5630 (0.43); 7.5510 (0.37); 7.5447 (1.39); 7.5391 (0.63); 7.5299 (0.99); 7.5264 (1.34); 7.5229 (0.73); 7.4958 (2.30); 7.4924 (0.98); 7.4805 (1.57); 7.4767 (2.96); 7.4630 (0.78); 7.4590 (1.26); 7.4558 (0.76); 7.4514 (0.46); 7.4442 (0.58); 7.4398 (0.66); 7.4280 (0.69); 7.4239 (0.64); 7.4030 (0.34); 7.3382 (0.46); 7.3170 (0.57); 7.2332 (0.38); 7.2250 (3.92); 7.2219 (2.99); 7.2068 (5.84); 7.1038 (1.10); 7.0998 (1.12); 7.0872 (1.05); 7.0832 (1.05); 6.9745 (0.36); 6.8804 (0.36); 6.8730 (3.25); 6.8678 (0.97); 6.8565 (0.94); 6.8513 (2.89); 6.0032 (0.41); 5.5344 (1.14); 5.3314 (4.96); 5.1786 (0.99); 4.2520 (1.21); 4.2346 (2.78); 4.2173 (1.26); 3.7187 (16.00); 3.3402 (147.09); 3.0878 (2.53); 3.0642 (13.07); 3.0361 (3.25); 2.8906 (8.67); 2.8806 (1.16); 2.8632 (2.24); 2.8460 (1.04); 2.7322 (6.81); 2.7310 (6.82); 2.5255 (0.81); 2.5207 (1.32); 2.5122 (16.89); 2.5077 (33.74); 2.5031 (44.53); 2.4984 (32.34); 2.4939 (15.43); -0.0002 (2.35)
Example 311, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6801 (2.05); 8.0262 (0.75); 8.0054 (0.97); 7.9533 (0.54); 7.8844 (1.30); 7.8652 (1.73); 7.8449 (1.09); 7.7320 (1.88); 7.7293 (2.50); 7.7255 (1.19); 7.7167 (0.73); 7.7116 (3.35); 7.7079 (2.31); 7.5674 (0.47); 7.5555 (0.34); 7.5491 (1.59); 7.5434 (0.46); 7.5341 (0.84); 7.5308 (1.39); 7.5274 (0.69); 7.4996 (2.30); 7.4961 (0.96); 7.4842 (1.56); 7.4805 (2.97); 7.4669 (0.46); 7.4628 (1.20); 7.4596 (0.66); 7.3586 (0.64); 7.3378 (1.37); 7.3200 (1.26); 7.3173 (0.91); 7.2997 (0.59); 7.2070 (1.66); 7.1896 (1.61); 6.8686 (0.56); 6.8626 (1.23); 6.8567 (0.83); 6.8404 (0.46); 6.8346 (1.14); 6.8263 (1.20); 6.8241 (1.70); 6.8208 (1.28); 6.8182 (1.05); 6.8154 (0.70); 6.8034 (1.29); 6.7997 (1.72); 6.7976 (1.56); 6.7945 (1.01); 6.7790 (0.55); 6.7772 (0.50); 6.7730 (0.42); 6.7713 (0.37); 5.3863 (5.92); 4.8317 (6.00); 3.3310 (56.17); 3.0697 (16.00); 2.8905 (4.50); 2.7320 (3.56); 2.7309 (3.46); 2.5252 (0.59); 2.5204 (0.93); 2.5118 (11.75); 2.5073 (23.51); 2.5027 (30.97); 2.4980 (22.33); 2.4935 (10.51); -0.0002 (6.98)
Example 312, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4977 (1.07); 7.9530 (0.84); 7.7382 (1.90); 7.7354 (2.59); 7.7315 (1.23); 7.7230 (0.79); 7.7178 (3.43); 7.7140 (2.30); 7.5662 (0.47); 7.5547 (0.35); 7.5479 (1.64); 7.5420 (0.48); 7.5331 (0.90); 7.5297 (1.49); 7.5262 (0.73); 7.5031 (2.44); 7.4997 (1.01); 7.4880 (1.58); 7.4840 (3.01); 7.4707 (0.47); 7.4665 (1.22); 7.4630 (0.66); 7.3252 (4.43); 7.0772 (2.42); 7.0568 (2.80); 6.8137 (0.44); 6.8064 (3.66); 6.8014 (1.12); 6.7898 (1.08); 6.7849 (3.15); 5.3337 (5.52); 5.0082 (0.37); 4.9917 (1.44); 4.9751 (1.46); 4.9586 (0.37); 3.3371 (72.07); 3.0111 (16.00); 2.8904 (6.99); 2.7322 (5.42); 2.7310 (5.57); 2.5255 (0.52); 2.5207 (0.86); 2.5122 (10.05); 2.5077 (19.96); 2.5031 (26.22); 2.4985 (18.83); 2.4939 (8.79); 2.1960 (9.43); 1.5253 (5.41); 1.5088 (5.36); -0.0002 (3.46)
Example 313, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6270 (2.08); 8.0373 (0.90); 8.0167 (1.13); 7.9533 (0.58); 7.8838 (1.37); 7.8645 (1.85); 7.8443 (1.15); 7.7954 (0.39); 7.7303 (2.72); 7.7265 (1.56); 7.7176 (0.93); 7.7124 (3.49); 7.7086 (2.54); 7.5679 (0.51); 7.5647 (0.36); 7.5560 (0.40); 7.5496 (1.74); 7.5439 (0.69); 7.5346 (0.94); 7.5313 (1.53); 7.5279 (0.87); 7.5004 (2.59); 7.4970 (1.36); 7.4850 (1.77); 7.4812 (3.38); 7.4677 (0.56); 7.4636 (1.34); 7.4603 (0.84); 7.3224 (1.90); 7.3158 (0.54); 7.3026 (2.47); 7.2999 (2.29); 7.2896 (0.49); 7.2822 (2.23); 7.2042 (1.83); 7.1864 (1.74); 6.9787 (1.01); 6.9764 (0.98); 6.9660 (2.78); 6.9635 (3.38); 6.9597 (3.35); 6.9494 (1.08); 6.9429 (4.65); 6.9359 (0.32); 5.3856 (6.31); 5.3362 (0.58); 4.7944 (6.74); 3.8868

(0.36); 3.8701 (0.37); 3.3346 (65.65); 3.0692 (16.00); 3.0596 (0.58); 2.8903 (4.69); 2.7319 (3.67); 2.5255 (0.56); 2.5206 (0.90); 2.5121 (9.87); 2.5076 (19.62); 2.5030 (25.88); 2.4984 (18.88); 2.4939 (9.15); 1.2343 (0.56); 0.9274 (1.14); 0.9142 (0.37); 0.9106 (1.13); -0.0002 (5.70)
Example 314, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4317 (0.74); 7.9526 (1.20); 7.7390 (2.69); 7.7351 (1.30); 7.7266 (0.77); 7.7214 (3.45); 7.7176 (2.40); 7.5666 (0.47); 7.5552 (0.34); 7.5482 (1.66); 7.5423 (0.50); 7.5335 (0.92); 7.5301 (1.51); 7.5267 (0.76); 7.5046 (2.51); 7.5012 (1.07); 7.4895 (1.58); 7.4855 (3.09); 7.4722 (0.47); 7.4681 (1.21); 7.4645 (0.68); 7.3430 (4.60); 7.2834 (1.19); 7.2632 (2.64); 7.2428 (2.00); 7.2274 (1.42); 7.2223 (2.18); 7.2168 (1.66); 7.1772 (1.24); 7.1751 (1.50); 7.1730 (1.24); 7.1708 (1.12); 7.1575 (0.88); 7.1554 (0.93); 7.1532 (0.89); 7.1510 (0.72); 7.0102 (1.04); 7.0082 (1.11); 7.0040 (1.05); 7.0021 (1.00); 6.9894 (0.93); 6.9875 (0.92); 6.9832 (0.93); 6.9813 (0.86); 5.3457 (5.76); 4.8880 (7.21); 3.3347 (91.17); 3.0214 (16.00); 2.8904 (9.66); 2.7318 (7.62); 2.7308 (7.75); 2.5251 (0.80); 2.5202 (1.21); 2.5117 (14.62); 2.5072 (29.20); 2.5026 (38.58); 2.4980 (28.01); 2.4935 (13.36); -0.0002 (3.21)
Example 315, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4292 (1.10); 7.9524 (0.91); 7.7415 (1.96); 7.7389 (2.67); 7.7350 (1.31); 7.7265 (0.85); 7.7213 (3.46); 7.7175 (2.41); 7.5667 (0.49); 7.5635 (0.34); 7.5553 (0.35); 7.5483 (1.67); 7.5425 (0.53); 7.5337 (0.92); 7.5303 (1.53); 7.5268 (0.79); 7.5048 (2.53); 7.5014 (1.15); 7.4898 (1.63); 7.4858 (3.13); 7.4724 (0.52); 7.4683 (1.24); 7.4647 (0.71); 7.3352 (4.68); 7.3280 (0.42); 7.3212 (1.97); 7.3156 (0.68); 7.3087 (0.50); 7.2989 (2.61); 7.2927 (0.37); 7.2872 (0.74); 7.2811 (2.16); 6.9835 (1.01); 6.9813 (0.90); 6.9667 (4.14); 6.9515 (1.30); 6.9461 (5.18); 5.3429 (5.92); 4.8426 (8.14); 4.8334 (0.55); 3.3374 (135.09); 3.3008 (0.33); 3.0224 (16.00); 2.8902 (7.54); 2.7316 (5.86); 2.7307 (5.95); 2.5248 (0.78); 2.5116 (14.77); 2.5071 (29.36); 2.5025 (38.78); 2.4979 (28.33); 2.4934 (13.71); 1.2348 (0.34); 1.1312 (0.55); 1.1160 (0.54); 0.0080 (0.37); -0.0002 (10.08)
Example 316, Solvent: DMSO, Spectrometer: 399,95 MHz
9.7797 (1.56); 8.0154 (1.22); 7.9956 (1.55); 7.8351 (1.07); 7.8160 (1.38); 7.7955 (0.95); 7.7281 (1.63); 7.7256 (2.08); 7.7218 (0.98); 7.7130 (0.64); 7.7079 (2.76); 7.7041 (1.91); 7.5637 (0.40); 7.5454 (1.33); 7.5397 (0.39); 7.5304 (0.69); 7.5271 (1.15); 7.5237 (0.58); 7.4951 (1.93); 7.4917 (0.83); 7.4796 (1.32); 7.4759 (2.50); 7.4623 (0.38); 7.4582 (1.00); 7.4551 (0.56); 7.1526 (1.38); 7.1350 (1.34); 5.3778 (4.99); 3.3271 (28.80); 3.1371 (0.50); 3.0675 (12.85); 2.5252 (0.48); 2.5204 (0.75); 2.5119 (9.13); 2.5073 (18.30); 2.5027 (24.18); 2.4981 (17.49); 2.4935 (8.27); 1.6465 (0.87); 1.6259 (0.76); 1.6175 (0.62); 1.6054 (1.01); 1.2727 (0.40); 1.2534 (0.96); 1.2353 (1.45); 1.2179 (0.87); 1.1885 (16.00); 1.1730 (1.20); 1.1623 (0.77); 1.1555 (0.63); 1.1440 (0.73); 1.1360 (0.58); 1.1287 (0.42); 1.1217 (0.45); 0.8557 (2.82); 0.8379 (5.68); 0.8196 (2.37); -0.0002 (9.76)
Example 317, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1338 (1.76); 7.8350 (0.51); 7.8142 (1.18); 7.7964 (1.33); 7.7795 (1.74); 7.7609 (0.75); 7.7317 (1.99); 7.7138 (2.40); 7.7102 (1.83); 7.5702 (0.34); 7.5584 (0.33); 7.5518 (1.17); 7.5465 (0.46); 7.5337 (1.03); 7.5038 (1.79); 7.4846 (2.24); 7.4670 (0.89); 7.1163 (1.11); 7.1003 (1.09); 5.7646 (4.79); 5.3393 (4.53); 3.5385 (3.49); 3.3282 (12.06); 3.3043 (1.20); 3.0957 (0.40); 3.0742 (10.25); 2.5146 (14.75); 2.5102 (19.75); 2.5059 (15.03); 2.4650 (0.47); 2.4605 (0.46); 1.9972 (0.51); 1.6757 (16.00); 1.6259 (0.32); 1.3742 (0.56)
Example 318, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4153 (0.70); 7.9530 (0.69); 7.7402 (2.57); 7.7363 (1.28); 7.7277 (0.77); 7.7226 (3.27); 7.7188 (2.30); 7.5665 (0.45); 7.5551 (0.32); 7.5481 (1.60); 7.5423 (0.49); 7.5335 (0.89); 7.5301 (1.46); 7.5266 (0.75); 7.5047 (2.43); 7.5014 (1.08); 7.4897 (1.54); 7.4857 (2.97); 7.4723 (0.47); 7.4682 (1.17); 7.4647 (0.67); 7.3372 (4.45); 7.2124 (1.11); 7.1936 (1.02); 7.1889 (1.27); 7.1761 (0.39); 7.1704 (1.14); 6.5674 (0.60); 6.5630 (1.09); 6.5598 (1.25); 6.5517 (0.54); 6.5452 (4.82); 6.5414 (5.79); 6.5253 (1.07); 6.5213 (1.17); 6.5174 (0.58); 5.3454 (5.49); 4.8238 (6.77); 3.7825 (0.48); 3.7233 (16.00); 3.3357 (39.45); 3.0205 (14.29); 2.8899 (5.54); 2.7318 (4.27); 2.7309 (4.41); 2.5253 (0.35); 2.5204 (0.56); 2.5120 (6.85); 2.5075 (13.71); 2.5029 (18.17); 2.4983 (13.29); 2.4938 (6.42); -0.0002 (3.59)
Example 319, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6252 (3.43); 7.6045 (3.97); 7.3099 (7.22); 7.3018 (2.61); 7.2960 (1.28); 7.2885 (3.34); 7.2832 (3.38); 7.2801 (2.98); 7.2662 (0.90); 7.2615 (2.31); 7.2557 (0.33); 7.2066 (0.49); 7.2041 (0.49); 7.1855 (0.37); 6.9577 (1.06); 6.9393 (1.89); 6.9207 (1.50); 6.9166 (2.90); 6.9143 (3.19); 6.8946 (2.91); 6.8224 (0.61); 6.8025 (0.49); 5.3124 (5.92); 5.0675 (0.41); 5.0511 (1.47); 5.0345 (1.48); 5.0181 (0.41); 3.3657 (19.18); 3.0017 (16.00); 2.5578 (0.36); 2.5303 (0.59); 2.5168 (11.86); 2.5124 (24.30); 2.5080 (32.65); 2.5035 (23.38); 2.4992 (11.02); 2.4580 (0.36); 2.3543 (9.77); 2.3350 (0.34); 1.9942 (0.85); 1.5485 (5.79); 1.5319 (5.78); 1.4177 (0.87); 1.4009 (0.86); 1.2493 (1.28); 1.1785 (0.47); 0.8785 (0.58); 0.8617 (1.87); 0.8441 (0.74)
Example 320, Solvent: DMSO, Spectrometer: 400,13 MHz
10.9991 (2.97); 7.8393 (4.30); 7.8291 (3.79); 7.7294 (2.72); 7.7165 (0.96); 7.7115 (3.51); 7.7078 (2.54); 7.5691 (0.50); 7.5659 (0.35); 7.5571 (0.41); 7.5508 (1.72); 7.5452 (0.57); 7.5358 (0.98); 7.5325 (1.49); 7.5293 (0.81); 7.5013 (2.52); 7.4857 (1.83); 7.4821 (3.24); 7.4683 (0.66); 7.4644 (1.42); 7.4613 (0.90); 7.1624 (1.29); 7.1518 (2.06); 7.1415 (1.28); 5.7665 (4.47); 5.3558 (6.58); 3.3905 (0.41); 3.3403 (28.15); 3.2898 (0.38); 3.0603 (16.00); 2.8748 (1.96); 2.8568 (3.37); 2.8386 (2.06); 2.5624 (0.42); 2.5580 (0.59); 2.5536 (0.45); 2.5300 (1.29); 2.5166 (15.51); 2.5122 (31.16); 2.5078 (41.93); 2.5033 (30.56); 2.4990 (15.36); 2.4668 (0.80); 2.4620 (0.80); 2.4574 (0.81); 2.4529 (0.60); 1.9948 (0.57); 1.5845 (0.44); 1.5670 (1.20); 1.5483 (1.96); 1.5426 (1.04); 1.5310 (1.48); 1.5112 (0.67); 1.4100 (0.35); 1.3916 (1.16); 1.3726 (1.78); 1.3536 (1.74); 1.3359 (1.04); 1.3178 (0.34); 1.1792 (0.32); 0.9091 (4.22); 0.9016 (0.56); 0.8908 (8.65); 0.8724 (3.76); 0.8626 (0.53)
Example 321, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5670 (0.86); 7.9540 (0.93); 7.7375 (2.93); 7.7337 (1.42); 7.7247 (0.85); 7.7198 (3.63); 7.7159 (2.53); 7.5663 (0.50); 7.5631 (0.32); 7.5548 (0.36); 7.5478 (1.81); 7.5421 (0.52); 7.5331 (0.98); 7.5298 (1.58); 7.5264 (0.80); 7.5034 (2.72); 7.5001 (1.16); 7.4881 (1.77); 7.4842 (3.37); 7.4708 (0.52); 7.4667 (1.29); 7.4633 (0.74); 7.3461 (4.72); 7.3312 (1.09); 7.3279 (0.56); 7.3102 (2.36); 7.3037 (0.33); 7.2889 (1.57); 7.0250 (3.80); 7.0214 (3.46); 7.0153 (1.44); 7.0057 (1.38); 7.0028 (0.89); 6.9097 (1.02); 6.9063 (1.14); 6.9017 (0.93); 6.8874 (1.05); 6.8824 (0.99); 5.3439 (6.21); 5.1257 (0.41); 5.1093 (1.54); 5.0928 (1.56); 5.0763 (0.42); 3.3415 (50.51); 3.0153 (16.00); 2.8911 (7.51); 2.7325 (6.13); 2.5269

(0.35); 2.5136 (7.04); 2.5091 (14.06); 2.5046 (18.55); 2.5000 (13.49); 2.4955 (6.47); 1.5507 (6.03); 1.5342 (5.92); -0.0002 (4.06)
Example 322, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7379 (2.94); 7.7200 (3.52); 7.7163 (2.56); 7.5694 (0.52); 7.5578 (0.44); 7.5510 (1.74); 7.5455 (0.60); 7.5361 (1.02); 7.5330 (1.53); 7.5064 (2.70); 7.4872 (3.32); 7.4736 (0.59); 7.4697 (1.24); 7.3255 (5.12); 7.3002 (1.89); 7.2954 (0.97); 7.2820 (4.64); 7.2606 (4.97); 7.2472 (0.96); 7.2425 (2.28); 6.9589 (1.11); 6.9404 (2.25); 6.9183 (5.27); 6.8990 (3.84); 6.8659 (3.36); 6.8462 (3.04); 5.7584 (1.12); 5.3394 (6.42); 4.8693 (0.96); 4.8533 (1.96); 4.8379 (0.96); 4.5790 (1.00); 4.5662 (1.20); 4.5616 (1.30); 4.5487 (1.00); 3.3932 (4.87); 3.2928 (2.26); 3.1888 (0.79); 3.0122 (16.00); 2.9105 (0.57); 2.8929 (1.41); 2.8748 (1.43); 2.8568 (0.56); 2.5111 (24.58); 2.5067 (32.65); 2.5024 (23.72); 1.9635 (0.42); 1.9451 (1.56); 1.9272 (2.16); 1.9105 (1.87); 1.8889 (1.18); 1.8759 (0.93); 1.8691 (1.52); 1.8572 (0.92); 1.8503 (1.66); 1.8322 (1.13); 1.8149 (0.58); 1.1116 (2.12); 1.0936 (4.34); 1.0754 (2.05); 1.0080 (4.98); 0.9896 (10.27); 0.9710 (4.87)
Example 323, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6044 (0.99); 10.4354 (1.93); 8.0787 (0.63); 8.0580 (0.75); 7.9790 (1.43); 7.9572 (2.24); 7.8334 (0.64); 7.8142 (0.90); 7.7970 (1.39); 7.7780 (1.69); 7.7576 (1.12); 7.7265 (3.64); 7.7135 (1.07); 7.7087 (4.56); 7.7050 (3.21); 7.5689 (0.38); 7.5658 (0.68); 7.5626 (0.43); 7.5539 (0.51); 7.5475 (2.35); 7.5418 (0.67); 7.5326 (1.26); 7.5293 (2.03); 7.5259 (1.02); 7.4989 (3.43); 7.4957 (1.48); 7.4834 (2.33); 7.4797 (4.36); 7.4661 (0.67); 7.4621 (1.68); 7.4589 (0.96); 7.1395 (0.90); 7.1202 (1.06); 7.1163 (1.76); 7.0977 (1.65); 6.1620 (2.27); 6.1552 (1.74); 6.1486 (1.15); 6.1410 (1.11); 5.8283 (1.01); 5.8213 (1.02); 5.8143 (0.95); 5.8072 (0.92); 5.3617 (7.82); 3.3316 (117.10); 3.3079 (1.30); 3.1502 (0.43); 3.1402 (0.78); 3.1296 (0.66); 3.1178 (0.78); 3.1077 (0.45); 3.0716 (16.00); 3.0612 (8.68); 2.9179 (0.75); 2.8908 (12.80); 2.8643 (1.07); 2.7320 (10.02); 2.7309 (9.50); 2.6718 (0.34); 2.5251 (1.02); 2.5202 (1.58); 2.5117 (20.05); 2.5072 (39.90); 2.5026 (52.31); 2.4980 (37.67); 2.4935 (17.75); 2.4637 (0.34); 2.4537 (0.38); 2.4430 (0.36); 2.4321 (0.34); 2.3294 (0.33); 1.8768 (0.37); 1.8476 (0.40); 1.8195 (0.41); 1.8102 (0.44); 1.7966 (0.50); 1.7909 (0.69); 1.7876 (0.62); 1.7818 (0.53); 1.7683 (0.48); 1.7591 (0.44); 1.6280 (0.52); 1.6081 (0.56); 1.4122 (0.47); 1.4063 (0.58); 1.4017 (0.54); 1.3956 (0.51); 1.3836 (0.42); 1.3778 (0.51); 1.3732 (0.47); 1.3672 (0.45); 1.3235 (0.41); 1.3186 (0.37); 1.3031 (1.18); 1.2983 (1.30); 1.2931 (0.81); 1.2835 (1.60); 1.2685 (0.70); 1.2634 (0.79); 1.2409 (0.35); 1.2349 (0.43); 1.2254 (0.47); 1.2056 (0.37); 0.0080 (0.34); -0.0002 (10.51)
Example 324, Solvent: CDCl3, Spectrometer: 300,16 MHz
8.1893 (1.90); 8.1624 (2.14); 7.8514 (2.74); 7.7462 (1.30); 7.7201 (2.44); 7.6936 (1.39); 7.6449 (3.76); 7.6305 (2.84); 7.3211 (1.25); 7.2968 (3.76); 7.2671 (5.70); 7.2520 (6.74); 7.2466 (6.67); 7.2265 (4.57); 7.1382 (2.37); 7.1101 (4.43); 7.0754 (3.73); 7.0471 (2.34); 5.2736 (9.20); 3.0797 (16.00); 3.0368 (2.87); 2.7426 (2.75); 2.7168 (4.45); 2.6922 (2.18); 2.0047 (1.07); -0.0002 (1.49)
Example 325, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2707 (2.81); 7.8308 (0.57); 7.8098 (1.73); 7.7927 (2.57); 7.7903 (2.20); 7.7861 (2.23); 7.7689 (0.62); 7.7653 (0.39); 7.4220 (1.01); 7.4021 (2.17); 7.3820 (1.57); 7.3181 (8.50); 7.3071 (9.73); 7.2974 (0.48); 7.2844 (1.53); 7.2809 (1.28); 7.2673 (0.83); 7.2636 (1.20); 7.2614 (1.02); 7.2457 (1.76); 7.2391 (2.78); 7.2361 (2.05); 7.2272 (1.18); 7.2151 (0.58); 7.1442 (1.07); 7.1425 (1.11); 7.1379 (0.99); 7.1363 (0.95); 7.1237 (0.96); 7.1218 (0.93); 7.1173 (0.94); 7.1153 (0.89); 7.1100 (1.38); 7.1063 (1.37); 7.0932 (1.28); 7.0894 (1.28); 5.7672 (6.91); 5.3371 (5.77); 4.3097 (1.63); 4.2924 (3.64); 4.2752 (1.67); 3.7886 (16.00); 3.4026 (1.13); 3.3522 (124.45); 3.3013 (1.15); 3.0531 (14.26); 2.9572 (1.57); 2.9399 (3.30); 2.9227 (1.50); 2.5599 (0.39); 2.5322 (0.61); 2.5187 (13.05); 2.5143 (27.08); 2.5099 (36.73); 2.5054 (26.27); 2.5010 (12.20); 2.4589 (0.37); 1.9964 (0.46); 1.2499 (0.40); 0.8639 (0.57)
Example 326, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6240 (3.18); 7.6034 (3.68); 7.3073 (2.91); 7.2872 (2.56); 6.9984 (3.45); 6.6183 (3.43); 5.0954 (6.06); 4.0425 (0.33); 4.0247 (0.34); 3.4017 (1.53); 3.3515 (96.15); 3.3014 (1.20); 3.0355 (16.00); 2.5304 (0.36); 2.5256 (0.58); 2.5170 (6.14); 2.5125 (12.69); 2.5080 (17.18); 2.5035 (12.15); 2.4990 (5.59); 2.3549 (9.06); 1.9942 (1.50); 1.1971 (0.40); 1.1793 (0.82); 1.1615 (0.39)
Example 327, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7598 (2.34); 8.1621 (1.47); 8.1418 (1.74); 7.9523 (0.98); 7.9060 (1.29); 7.8865 (1.81); 7.8664 (1.19); 7.7321 (2.68); 7.7283 (1.36); 7.7194 (0.80); 7.7143 (3.48); 7.7106 (2.42); 7.5659 (0.50); 7.5540 (0.35); 7.5475 (1.69); 7.5418 (0.49); 7.5326 (0.92); 7.5293 (1.50); 7.5259 (0.79); 7.4993 (2.48); 7.4961 (1.07); 7.4839 (1.67); 7.4802 (3.16); 7.4666 (0.48); 7.4626 (1.25); 7.4593 (0.71); 7.2973 (2.07); 7.2141 (1.81); 7.1964 (2.13); 7.1806 (1.75); 7.1771 (1.76); 7.1659 (2.86); 7.1464 (0.75); 5.3763 (6.18); 3.3460 (124.75); 3.0868 (16.00); 3.0776 (0.82); 3.0723 (0.46); 2.8906 (7.90); 2.7321 (6.17); 2.7312 (6.26); 2.5257 (0.61); 2.5209 (0.95); 2.5124 (11.99); 2.5078 (24.04); 2.5032 (31.79); 2.4986 (23.03); 2.4941 (10.93); 2.3341 (9.59); 2.3055 (8.92); -0.0002 (7.13)
Example 328, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5372 (1.96); 8.1004 (1.32); 8.0797 (1.57); 7.8440 (1.17); 7.8248 (1.62); 7.8045 (1.12); 7.4238 (1.00); 7.4038 (2.12); 7.3837 (1.56); 7.2895 (1.00); 7.2872 (1.33); 7.2857 (1.36); 7.2834 (1.26); 7.2702 (0.77); 7.2662 (1.16); 7.2640 (0.97); 7.2452 (1.47); 7.2393 (1.90); 7.2352 (1.40); 7.1517 (1.79); 7.1472 (1.25); 7.1450 (1.25); 7.1406 (1.14); 7.1384 (1.23); 7.1345 (1.81); 7.1264 (1.04); 7.1243 (1.00); 7.1200 (0.96); 7.1179 (0.86); 5.7690 (1.09); 5.3659 (5.52); 3.7891 (16.00); 3.7678 (0.41); 3.7601 (0.43); 3.3995 (1.96); 3.3494 (140.76); 3.3261 (1.70); 3.2996 (2.16); 3.0471 (14.86); 2.6932 (0.51); 2.6836 (0.59); 2.6792 (0.72); 2.6624 (0.37); 2.5603 (0.44); 2.5326 (0.44); 2.5191 (12.00); 2.5147 (25.85); 2.5102 (36.06); 2.5057 (26.73); 2.5013 (13.49); 2.4697 (0.68); 2.4650 (0.73); 2.4604 (0.75); 2.4559 (0.56); 1.5933 (0.43); 1.5889 (0.37); 1.5792 (0.46); 1.5728 (0.51); 1.5673 (0.39); 1.5579 (0.53); 1.3672 (0.69); 1.3318 (0.38); 1.3200 (0.47); 1.3065 (0.70); 1.2871 (0.87); 1.2728 (1.30); 1.2621 (0.71); 1.2528 (1.16); 1.2374 (0.92); 1.2198 (0.48); 1.2125 (0.34); 1.0700 (5.63); 1.0530 (5.66); 0.8844 (2.63); 0.8665 (5.38); 0.8485 (2.16)
Example 329, Solvent: DMSO, Spectrometer: 399,95 MHz
10.9504 (2.41); 8.1344 (1.61); 8.1145 (1.96); 7.9535 (0.81); 7.9139 (1.31); 7.8946 (1.80); 7.8744 (1.20); 7.8248 (0.88); 7.8223 (1.15); 7.8187 (0.93); 7.8054 (1.03); 7.8017 (1.31); 7.7993 (1.00); 7.7325 (2.04); 7.7299 (2.67); 7.7261 (1.32); 7.7173 (0.87); 7.7122 (3.49); 7.7084 (2.44); 7.6280 (1.50); 7.6227 (1.93); 7.6180 (1.45); 7.5681 (0.33); 7.5652 (0.52); 7.5620 (0.35); 7.5532 (0.44); 7.5459 (2.53); 7.5413 (0.65); 7.5319 (1.02); 7.5283 (1.87); 7.5252 (3.14); 7.5053 (1.57); 7.4975 (2.43); 7.4941 (1.07); 7.4821 (1.69); 7.4784 (3.11); 7.4648 (0.56); 7.4607 (1.40);

7.4577 (1.09); 7.4524 (1.98); 7.4471 (0.73); 7.4397 (0.59); 7.4338 (2.83); 7.4310 (2.69); 7.4252 (0.43); 7.4173 (0.96); 7.4123 (2.43); 7.2653 (1.04); 7.2632 (1.12); 7.2590 (1.03); 7.2570 (1.01); 7.2449 (0.94); 7.2428 (0.94); 7.2386 (0.96); 7.2365 (0.90); 7.2256 (1.85); 7.2072 (2.89); 7.1887 (1.90); 7.1728 (0.47); 7.1702 (0.82); 7.1676 (0.47); 7.0967 (2.58); 7.0940 (3.16); 7.0887 (0.87); 7.0797 (0.94); 7.0775 (1.54); 7.0749 (2.73); 7.0726 (2.29); 7.0661 (0.33); 5.4049 (5.99); 3.3296 (62.97); 3.0799 (0.33); 3.0675 (16.00); 2.8906 (6.62); 2.7320 (5.17); 2.7311 (5.11); 2.5251 (0.76); 2.5202 (1.21); 2.5118 (13.85); 2.5073 (27.56); 2.5027 (36.33); 2.4980 (26.37); 2.4935 (12.57); 1.2898 (0.51); 0.0079 (0.34); -0.0002 (9.72)
Example 331, Solvent: DMSO, Spectrometer: 399,95 MHz
11.0401 (2.57); 8.1582 (0.66); 8.1381 (0.77); 7.9294 (1.25); 7.9093 (3.59); 7.8888 (3.02); 7.7294 (2.91); 7.7115 (3.66); 7.7079 (2.66); 7.5630 (0.53); 7.5599 (0.34); 7.5511 (0.42); 7.5447 (1.75); 7.5390 (0.56); 7.5295 (1.03); 7.5264 (1.53); 7.5231 (0.82); 7.4958 (2.72); 7.4925 (1.51); 7.4766 (3.79); 7.4733 (2.64); 7.4625 (2.88); 7.4558 (4.95); 7.4439 (0.57); 7.2371 (1.95); 7.2265 (1.08); 7.2191 (2.64); 7.2111 (1.03); 7.2067 (1.10); 7.2040 (0.98); 7.1992 (0.81); 7.1916 (0.81); 7.1840 (0.73); 5.3767 (5.29); 3.3329 (31.64); 3.3266 (39.78); 3.0858 (16.00); 2.8898 (1.00); 2.7302 (0.83); 2.5237 (1.02); 2.5102 (18.01); 2.5060 (33.96); 2.5015 (43.58); 2.4970 (31.82); 2.4926 (15.48); 0.0079 (0.55); -0.0002 (13.09); -0.0085 (0.46)
Example 332, Solvent: DMSO, Spectrometer: 399,95 MHz
11.1771 (2.60); 8.1574 (0.59); 8.1376 (0.68); 7.9524 (1.45); 7.9370 (1.28); 7.9174 (1.90); 7.8975 (1.13); 7.7298 (3.63); 7.7255 (5.59); 7.7129 (0.96); 7.7078 (3.66); 7.7042 (2.65); 7.6147 (2.05); 7.5941 (3.25); 7.5646 (0.56); 7.5526 (0.41); 7.5463 (1.80); 7.5407 (0.60); 7.5305 (3.04); 7.5283 (2.43); 7.5255 (2.83); 7.5099 (1.44); 7.5048 (1.56); 7.4967 (2.71); 7.4810 (1.91); 7.4774 (3.38); 7.4638 (0.56); 7.4598 (1.29); 7.4568 (0.80); 7.2497 (1.89); 7.2311 (1.80); 5.3772 (4.44); 3.3362 (67.00); 3.3337 (97.23); 3.0721 (16.00); 2.8904 (10.48); 2.7309 (8.65); 2.5248 (0.74); 2.5114 (14.81); 2.5071 (29.40); 2.5025 (38.83); 2.4980 (28.68); 2.4936 (14.10); -0.0002 (4.73)
Example 333, Solvent: DMSO, Spectrometer: 300,16 MHz
9.8162 (1.07); 7.7866 (0.39); 7.7457 (0.73); 7.7216 (1.07); 7.7077 (3.99); 7.6938 (0.53); 7.6806 (0.38); 7.4843 (1.39); 7.4549 (1.52); 7.1399 (0.67); 7.1177 (0.73); 7.0930 (0.35); 7.0560 (7.69); 6.9663 (1.52); 6.9368 (1.35); 5.3862 (0.48); 5.1534 (2.18); 4.0814 (0.50); 4.0577 (1.53); 4.0339 (1.56); 4.0103 (0.53); 3.8358 (1.09); 3.7949 (0.46); 3.7814 (5.68); 2.5266 (1.11); 2.5211 (1.47); 2.5156 (1.09); 2.0068 (6.43); 1.4777 (16.00); 1.2146 (1.68); 1.1909 (3.31); 1.1672 (1.64)
Example 334, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5735 (2.04); 8.0370 (0.83); 8.0163 (1.06); 7.9528 (0.46); 7.8839 (1.29); 7.8647 (1.75); 7.8444 (1.10); 7.7311 (1.91); 7.7284 (2.51); 7.7246 (1.20); 7.7159 (0.74); 7.7107 (3.37); 7.7070 (2.34); 7.5670 (0.48); 7.5551 (0.34); 7.5488 (1.60); 7.5430 (0.47); 7.5338 (0.85); 7.5304 (1.40); 7.5270 (0.69); 7.4991 (2.30); 7.4956 (0.97); 7.4837 (1.59); 7.4800 (3.00); 7.4664 (0.46); 7.4623 (1.22); 7.4591 (0.67); 7.2044 (1.70); 7.1861 (1.78); 7.1704 (1.78); 7.1497 (1.05); 6.7869 (3.05); 6.7701 (1.09); 6.7687 (1.09); 6.7526 (0.84); 6.7489 (0.89); 6.7449 (0.60); 6.7315 (0.85); 6.7251 (0.69); 5.3834 (5.94); 4.7651 (6.17); 3.3380 (87.86); 3.0675 (16.00); 2.8905 (3.90); 2.7320 (3.13); 2.7309 (2.98); 2.5254 (0.60); 2.5206 (0.95); 2.5120 (11.85); 2.5075 (23.70); 2.5029 (31.15); 2.4983 (22.41); 2.4937 (10.52); 2.2718 (9.63); -0.0002 (1.06)
Example 335, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8446 (1.99); 8.0209 (0.87); 8.0003 (1.08); 7.9528 (1.10); 7.8447 (1.33); 7.8255 (1.79); 7.8052 (1.17); 7.7315 (2.67); 7.7275 (1.28); 7.7186 (0.82); 7.7136 (3.47); 7.7098 (2.40); 7.6157 (1.48); 7.6129 (1.48); 7.5958 (1.67); 7.5929 (1.61); 7.5688 (0.49); 7.5570 (0.35); 7.5504 (1.67); 7.5448 (0.49); 7.5356 (0.89); 7.5323 (1.44); 7.5290 (0.73); 7.5017 (2.41); 7.4984 (1.04); 7.4862 (1.66); 7.4825 (3.09); 7.4689 (0.49); 7.4648 (1.21); 7.4617 (0.68); 7.4224 (0.86); 7.4180 (0.95); 7.4034 (1.69); 7.3990 (1.61); 7.3695 (0.98); 7.3666 (0.97); 7.3511 (1.61); 7.3481 (1.51); 7.3324 (0.74); 7.3294 (0.69); 7.2373 (0.91); 7.2327 (0.91); 7.2178 (1.21); 7.2135 (1.15); 7.1990 (0.69); 7.1945 (0.62); 7.1670 (1.82); 7.1491 (1.74); 5.3809 (6.19); 3.9370 (5.68); 3.3354 (140.14); 3.3090 (0.35); 3.0674 (16.00); 2.8904 (9.16); 2.7313 (7.18); 2.5251 (0.83); 2.5201 (1.35); 2.5117 (15.68); 2.5072 (30.91); 2.5026 (40.50); 2.4980 (29.29); 2.4935 (13.85); -0.0002 (3.42)
Example 336, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4786 (2.21); 7.9529 (1.52); 7.7420 (3.01); 7.7242 (3.76); 7.7204 (2.69); 7.5661 (0.54); 7.5629 (0.38); 7.5547 (0.48); 7.5478 (1.81); 7.5419 (0.65); 7.5330 (1.19); 7.5297 (1.68); 7.5263 (0.91); 7.5052 (2.78); 7.4900 (2.12); 7.4862 (3.46); 7.4726 (0.75); 7.4686 (1.41); 7.4651 (0.85); 7.3748 (2.53); 7.3540 (4.70); 7.2546 (0.81); 7.2351 (1.91); 7.2324 (1.87); 7.2090 (2.85); 7.1895 (1.17); 5.3579 (6.69); 3.3459 (152.72); 3.0510 (16.00); 2.8913 (11.04); 2.7325 (9.33); 2.5123 (16.67); 2.5080 (29.40); 2.5035 (36.54); 2.4990 (26.79); 2.4947 (13.64); 2.3392 (10.84); 2.3099 (10.35); -0.0002 (2.20)
Example 337, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1862 (2.95); 7.9534 (0.44); 7.8307 (0.54); 7.8097 (2.03); 7.7940 (4.41); 7.7908 (3.18); 7.7744 (0.63); 7.7236 (2.85); 7.7058 (3.61); 7.7022 (2.59); 7.5629 (0.52); 7.5598 (0.34); 7.5510 (0.40); 7.5446 (1.72); 7.5390 (0.54); 7.5295 (1.01); 7.5264 (1.50); 7.5231 (0.80); 7.4960 (2.59); 7.4802 (1.94); 7.4769 (3.32); 7.4630 (0.58); 7.4592 (1.29); 7.4561 (0.78); 7.1029 (1.46); 7.0983 (1.45); 7.0869 (1.36); 7.0823 (1.38); 5.3351 (6.99); 3.9970 (0.94); 3.9821 (0.97); 3.9705 (1.49); 3.9556 (1.54); 3.8991 (1.51); 3.8821 (1.50); 3.8727 (0.96); 3.8555 (0.95); 3.3407 (108.77); 3.0658 (16.00); 2.8913 (3.20); 2.7327 (2.69); 2.7319 (2.63); 2.5258 (0.67); 2.5124 (11.47); 2.5082 (21.72); 2.5037 (27.88); 2.4992 (20.48); 2.4948 (10.09); 1.8031 (0.35); 1.7862 (0.53); 1.7707 (0.54); 1.7555 (0.38); 1.3887 (0.65); 1.3765 (1.06); 1.3689 (1.10); 1.3600 (1.18); 1.3549 (0.95); 1.3473 (0.96); 1.3411 (0.84); 1.3345 (0.66); 1.3259 (0.53); 1.3165 (0.44); 1.3110 (0.38); 1.3081 (0.37); 1.2857 (0.50); 1.2815 (0.60); 1.2746 (0.44); 1.2636 (0.60); 1.2456 (0.39); 1.2348 (0.43); 1.1501 (0.42); 1.1284 (0.70); 1.1131 (0.48); 1.1082 (0.69); 1.0886 (0.35); 0.9151 (7.35); 0.8982 (7.21); 0.8915 (3.49); 0.8735 (5.28); 0.8561 (2.17); -0.0002 (1.69)
Example 338, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5513 (1.17); 7.6263 (1.09); 7.6205 (1.13); 7.6179 (1.06); 7.6144 (1.30); 7.6111 (0.95); 7.6054 (0.98); 7.5949 (3.13); 7.5701 (0.78); 7.5561 (0.92); 7.5500 (1.21); 7.5357 (1.22); 7.5307 (0.75); 7.5149 (0.53); 7.4333 (0.56); 7.4307 (0.65); 7.4271 (0.60); 7.4245 (0.57); 7.4095 (1.05); 7.4052 (0.93); 7.3912 (0.51); 7.3881 (0.52); 7.3824 (0.41); 7.3566 (4.83); 7.3044 (1.84); 7.2858 (2.87); 7.2829 (2.93); 7.2643 (2.36); 6.9620

(1.09); 6.9437 (1.94); 6.9250 (1.40); 6.9166 (3.31); 6.8969 (2.97); 5.3601 (6.34); 5.0709 (0.44); 5.0545 (1.58); 5.0379 (1.60); 5.0215 (0.46); 3.3929 (2.83); 3.3899 (2.70); 3.3520 (253.47); 3.3140 (2.34); 3.3114 (2.50); 3.0141 (16.00); 2.5491 (0.83); 2.5451 (0.86); 2.5302 (1.04); 2.5166 (19.07); 2.5124 (38.30); 2.5080 (51.33); 2.5036 (37.65); 2.4711 (0.82); 2.4670 (0.79); 2.3348 (0.32); 1.9940 (1.18); 1.5532 (6.01); 1.5367 (6.00); 1.2496 (0.83); 1.1969 (0.34); 1.1791 (0.64); 0.8790 (0.36); 0.8623 (1.06); 0.8446 (0.43)
Example 339, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7047 (1.36); 9.3587 (0.63); 7.6178 (3.59); 7.5972 (4.11); 7.3051 (3.39); 7.2849 (3.06); 7.2361 (4.24); 7.0024 (0.53); 6.9802 (1.03); 6.9581 (0.62); 6.7544 (0.67); 6.7430 (0.69); 6.7373 (0.37); 6.7318 (0.56); 6.7204 (0.53); 5.7642 (5.42); 5.2561 (6.14); 4.7129 (0.43); 4.6996 (0.53); 4.6901 (0.80); 4.6805 (0.61); 4.6677 (0.42); 3.3989 (0.92); 3.3491 (61.31); 3.2987 (1.04); 3.2816 (0.37); 3.0239 (16.00); 2.5579 (0.41); 2.5534 (0.34); 2.5167 (11.74); 2.5124 (23.24); 2.5080 (31.00); 2.5035 (22.77); 2.4993 (11.62); 2.4669 (0.67); 2.4622 (0.71); 2.4576 (0.72); 2.3524 (10.31); 1.9943 (0.57); 1.9148 (0.85); 1.8958 (0.91); 1.8832 (1.04); 1.8713 (1.12); 1.8640 (1.12); 1.7223 (0.91); 1.7130 (0.98); 1.7003 (1.04); 1.6924 (1.00); 1.5303 (0.48); 1.5199 (0.51); 1.5002 (0.57); 1.4660 (0.54); 1.4594 (0.44); 1.4340 (1.01); 1.4095 (1.30); 1.3838 (1.40); 1.3571 (1.24); 1.3311 (0.97); 1.3251 (1.05); 1.3055 (0.47); 1.2982 (0.56); 1.2685 (0.47); 1.2593 (0.41); 1.2389 (0.78); 1.2120 (0.47); 1.1969 (0.39); 1.1791 (0.45)
Example 340, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5036 (1.94); 8.0858 (1.31); 8.0652 (1.55); 7.8345 (1.28); 7.8151 (1.77); 7.7949 (1.20); 7.7260 (2.01); 7.7236 (2.59); 7.7197 (1.30); 7.7108 (0.81); 7.7057 (3.49); 7.7019 (2.40); 7.5644 (0.49); 7.5525 (0.37); 7.5461 (1.64); 7.5404 (0.49); 7.5311 (0.88); 7.5278 (1.42); 7.5245 (0.73); 7.4967 (2.43); 7.4933 (1.06); 7.4813 (1.66); 7.4776 (3.09); 7.4640 (0.48); 7.4599 (1.23); 7.4567 (0.68); 7.1437 (1.77); 7.1261 (1.72); 5.3567 (6.33); 3.3291 (56.94); 3.0541 (16.00); 2.8910 (2.50); 2.7322 (1.97); 2.5254 (0.55); 2.5120 (11.03); 2.5075 (21.92); 2.5029 (28.90); 2.4983 (21.10); 2.4938 (10.12); 2.2770 (3.50); 2.2591 (4.27); 2.0961 (0.39); 2.0792 (0.72); 2.0623 (0.85); 2.0452 (0.66); 2.0279 (0.33); 0.9218 (14.86); 0.9052 (14.47); 0.8759 (0.48); -0.0002 (5.49)
Example 341, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7964 (1.97); 8.0347 (1.30); 8.0140 (1.60); 7.9532 (0.78); 7.8342 (1.32); 7.8150 (1.85); 7.7947 (1.20); 7.7226 (2.72); 7.7187 (1.40); 7.7097 (0.90); 7.7047 (3.49); 7.7010 (2.45); 7.5644 (0.52); 7.5613 (0.36); 7.5524 (0.39); 7.5460 (1.75); 7.5404 (0.59); 7.5311 (0.99); 7.5278 (1.53); 7.5244 (0.86); 7.4962 (2.57); 7.4930 (1.19); 7.4807 (1.81); 7.4770 (3.25); 7.4634 (0.56); 7.4593 (1.32); 7.4562 (0.78); 7.3568 (0.70); 7.3519 (1.12); 7.3465 (0.58); 7.3357 (4.33); 7.3312 (6.36); 7.3133 (3.71); 7.3088 (1.21); 7.2984 (0.72); 7.2939 (1.35); 7.2627 (0.47); 7.2586 (0.87); 7.2539 (1.12); 7.2487 (0.64); 7.2437 (0.69); 7.2370 (1.15); 7.2302 (0.38); 7.2245 (0.35); 7.2202 (0.50); 7.1578 (1.86); 7.1399 (1.81); 5.3691 (6.42); 3.7173 (6.49); 3.5605 (0.68); 3.3349 (84.22); 3.2182 (0.39); 3.0879 (0.37); 3.0505 (16.00); 3.0168 (0.34); 2.8902 (5.85); 2.7315 (4.65); 2.5252 (0.64); 2.5118 (13.25); 2.5074 (26.44); 2.5028 (34.90); 2.4982 (25.49); 2.4937 (12.32); 1.2348 (0.41); -0.0002 (8.23)
Example 342, Solvent: DMSO, Spectrometer: 400,13 MHz
10.4822 (4.13); 7.8668 (0.86); 7.8466 (2.31); 7.8282 (2.23); 7.8111 (3.59); 7.7906 (1.43); 7.7318 (4.01); 7.7129 (4.58); 7.5700 (0.66); 7.5519 (2.01); 7.5335 (1.91); 7.5035 (3.37); 7.4843 (4.28); 7.4660 (1.59); 7.1433 (2.51); 7.1258 (2.41); 5.7680 (0.34); 5.3517 (8.92); 4.7808 (6.78); 4.7769 (7.14); 3.5835 (3.23); 3.3459 (39.30); 3.0750 (16.00); 2.5109 (30.31); 1.9974 (0.61); 1.2506 (1.30); 1.1818 (0.33); 0.8802 (0.47); 0.8650 (1.04); 0.8478 (0.49)
Example 343, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3290 (2.95); 7.8459 (0.69); 7.8250 (1.97); 7.8078 (2.49); 7.8025 (2.32); 7.7990 (2.59); 7.7816 (0.86); 7.7780 (0.57); 7.5391 (2.24); 7.5239 (0.69); 7.5151 (1.06); 7.5118 (1.10); 7.5063 (0.62); 7.5024 (0.90); 7.4979 (0.68); 7.3894 (0.41); 7.3699 (2.39); 7.3643 (1.61); 7.3582 (3.22); 7.3558 (3.08); 7.1130 (1.48); 7.1096 (1.50); 7.0959 (1.43); 7.0925 (1.38); 5.7689 (2.85); 5.3584 (0.35); 5.3325 (6.35); 4.1952 (2.12); 4.1785 (4.56); 4.1618 (2.09); 3.3706 (1.83); 3.3438 (51.96); 3.3167 (1.57); 3.0893 (0.64); 3.0769 (0.49); 3.0625 (16.00); 3.0354 (0.54); 2.9238 (1.38); 2.9172 (3.15); 2.9106 (1.46); 2.5792 (1.30); 2.5725 (1.38); 2.5625 (2.74); 2.5558 (2.68); 2.5456 (2.18); 2.5380 (3.34); 2.5326 (3.29); 2.5278 (3.13); 2.5187 (19.36); 2.5143 (38.86); 2.5099 (52.05); 2.5054 (37.06); 2.5010 (17.23); 2.4865 (2.10); 2.4827 (2.22); 2.3644 (0.57); 2.3383 (10.64); 2.3121 (0.49); 1.9970 (0.58)
Example 344, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7868 (2.09); 8.1713 (1.58); 8.1514 (1.87); 7.9532 (0.61); 7.9195 (1.28); 7.9001 (1.74); 7.8799 (1.20); 7.8640 (1.84); 7.8250 (0.59); 7.8210 (0.85); 7.8161 (0.47); 7.8139 (0.42); 7.8089 (0.71); 7.8046 (0.99); 7.7995 (0.54); 7.7405 (1.85); 7.7379 (2.49); 7.7340 (1.17); 7.7254 (0.73); 7.7202 (3.32); 7.7164 (2.24); 7.5674 (0.47); 7.5556 (0.34); 7.5490 (1.58); 7.5433 (0.46); 7.5342 (0.84); 7.5308 (1.39); 7.5274 (0.69); 7.5011 (2.32); 7.4977 (0.95); 7.4859 (1.53); 7.4820 (2.96); 7.4685 (0.45); 7.4644 (1.19); 7.4611 (0.64); 7.4030 (3.39); 7.3871 (1.65); 7.3683 (0.40); 7.2243 (1.73); 7.2067 (1.66); 5.4161 (6.03); 3.3297 (54.18); 3.0852 (16.00); 2.8903 (5.08); 2.7319 (3.93); 2.7309 (4.00); 2.5249 (0.63); 2.5201 (0.99); 2.5115 (11.45); 2.5070 (22.78); 2.5024 (29.99); 2.4978 (21.53); 2.4932 (10.10); 2.3876 (10.11); -0.0002 (1.26)
Example 345, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4697 (2.08); 8.1064 (1.50); 8.0868 (1.86); 7.9533 (0.64); 7.8958 (1.24); 7.8765 (1.68); 7.8563 (1.12); 7.7348 (1.87); 7.7321 (2.43); 7.7281 (1.15); 7.7195 (0.73); 7.7144 (3.31); 7.7106 (2.26); 7.5668 (0.47); 7.5549 (0.34); 7.5485 (1.59); 7.5427 (0.51); 7.5323 (2.61); 7.5310 (2.82); 7.5237 (2.16); 7.4998 (2.27); 7.4963 (0.95); 7.4846 (1.53); 7.4807 (2.93); 7.4672 (0.44); 7.4631 (1.20); 7.4598 (0.64); 7.1991 (1.65); 7.1980 (1.66); 7.1806 (1.63); 6.3325 (1.53); 6.3301 (1.53); 6.3240 (1.54); 6.3216 (1.45); 5.4021 (5.83); 3.3378 (106.36); 3.3155 (0.35); 3.0735 (16.00); 2.8911 (5.51); 2.7324 (4.38); 2.7312 (4.18); 2.5258 (0.64); 2.5210 (0.99); 2.5124 (11.87); 2.5079 (23.75); 2.5033 (31.29); 2.4986 (22.51); 2.4941 (10.49); 2.3698 (8.46); -0.0002 (3.20)
Example 346, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5880 (2.15); 8.0620 (1.14); 8.0412 (1.37); 7.9531 (0.72); 7.8386 (1.27); 7.8192 (1.77); 7.7990 (1.15); 7.7201 (2.60); 7.7164 (1.25); 7.7075 (0.79); 7.7024 (3.39); 7.6987 (2.36); 7.5642 (0.48); 7.5522 (0.35); 7.5458 (1.63); 7.5402 (0.48); 7.5308 (0.86); 7.5276 (1.41); 7.5242 (0.72); 7.4959 (2.41); 7.4926 (1.02); 7.4804 (1.67); 7.4767 (3.09); 7.4631 (0.49); 7.4591 (1.22); 7.4559 (0.70); 7.3427 (2.55); 7.3377 (0.98); 7.3267

(1.32); 7.3214 (5.36); 7.3158 (0.80); 7.2799 (4.54); 7.2748 (1.20); 7.2635 (0.97); 7.2586 (2.31); 7.1451 (1.80); 7.1272 (1.72); 5.3493 (6.15); 3.3324 (100.44); 3.0448 (16.00); 2.9063 (1.07); 2.8903 (7.38); 2.8683 (1.61); 2.7319 (4.73); 2.7310 (4.74); 2.7178 (1.73); 2.6980 (2.37); 2.6797 (1.18); 2.6720 (0.37); 2.5251 (0.80); 2.5117 (14.73); 2.5073 (29.28); 2.5027 (38.54); 2.4981 (27.95); 2.4936 (13.25); -0.0002 (6.71)
Example 347, Solvent: DMSO, Spectrometer: 400,13 MHz
10.6002 (3.59); 8.0852 (1.89); 8.0645 (2.24); 7.8484 (1.48); 7.8288 (2.54); 7.8089 (1.33); 7.7306 (3.99); 7.7117 (4.54); 7.5715 (0.67); 7.5536 (2.01); 7.5355 (1.89); 7.5043 (3.34); 7.4851 (4.28); 7.4668 (1.60); 7.3025 (1.13); 7.2837 (3.96); 7.2569 (6.77); 7.2397 (2.08); 7.1962 (1.30); 7.1790 (1.87); 7.1537 (2.83); 7.1350 (2.53); 5.3585 (8.79); 4.0629 (0.89); 4.0452 (2.68); 4.0274 (2.71); 4.0095 (0.92); 3.3444 (33.26); 3.0515 (16.00); 2.9208 (1.78); 2.9022 (3.80); 2.8826 (2.74); 2.7336 (2.73); 2.7137 (3.81); 2.6952 (1.83); 2.5108 (27.61); 1.9971 (10.87); 1.1994 (2.84); 1.1816 (5.58); 1.1639 (2.80)
Example 348, Solvent: DMSO, Spectrometer: 399,95 MHz
12.1340 (1.33); 8.0098 (0.92); 7.9897 (1.70); 7.9704 (1.43); 7.8942 (1.77); 7.8742 (1.25); 7.7286 (1.89); 7.7260 (2.42); 7.7221 (1.15); 7.7133 (0.75); 7.7082 (3.32); 7.7045 (2.30); 7.5683 (0.49); 7.5562 (0.35); 7.5500 (1.57); 7.5444 (0.46); 7.5350 (0.82); 7.5316 (1.36); 7.5283 (0.67); 7.4979 (2.26); 7.4943 (0.94); 7.4824 (1.60); 7.4787 (2.99); 7.4650 (0.46); 7.4609 (1.22); 7.4578 (0.67); 7.3792 (1.59); 7.3606 (1.55); 5.4394 (5.96); 3.3379 (128.50); 3.0662 (16.00); 2.8915 (2.29); 2.7327 (1.82); 2.7315 (1.75); 2.5259 (0.67); 2.5212 (1.10); 2.5126 (13.63); 2.5081 (27.26); 2.5034 (35.89); 2.4988 (25.83); 2.4943 (12.10); -0.0002 (7.61)
Example 349, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2543 (2.68); 7.9532 (0.70); 7.8227 (0.67); 7.8017 (1.71); 7.7843 (2.07); 7.7746 (1.94); 7.7716 (2.20); 7.7538 (0.80); 7.7506 (0.60); 7.7248 (1.94); 7.7223 (2.60); 7.7185 (1.26); 7.7097 (0.79); 7.7046 (3.41); 7.7008 (2.38); 7.5633 (0.50); 7.5514 (0.38); 7.5449 (1.63); 7.5392 (0.50); 7.5300 (0.88); 7.5267 (1.42); 7.5233 (0.73); 7.4959 (2.39); 7.4925 (1.02); 7.4805 (1.63); 7.4768 (3.06); 7.4632 (0.48); 7.4591 (1.22); 7.4559 (0.69); 7.3997 (0.43); 7.3784 (0.92); 7.3728 (0.59); 7.3708 (0.47); 7.3646 (0.39); 7.3502 (11.60); 7.3482 (10.51); 7.3394 (0.61); 7.3357 (0.98); 7.3248 (0.51); 7.3145 (0.42); 7.2606 (1.89); 7.2443 (2.11); 7.1051 (1.44); 7.1020 (1.46); 7.0877 (1.40); 7.0846 (1.37); 5.3312 (6.08); 4.4282 (0.33); 4.4117 (0.75); 4.3952 (0.34); 4.2926 (1.54); 4.2759 (3.53); 4.2592 (1.60); 3.3372 (126.35); 3.0610 (16.00); 2.9947 (0.56); 2.9453 (1.49); 2.9287 (3.14); 2.9120 (1.42); 2.8908 (5.74); 2.7323 (4.49); 2.7313 (4.48); 2.5256 (0.73); 2.5208 (1.20); 2.5123 (13.89); 2.5078 (27.62); 2.5032 (36.45); 2.4986 (26.54); 2.4940 (12.71); -0.0002 (3.57)
Example 350, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1864 (3.02); 7.9534 (0.57); 7.8312 (0.56); 7.8101 (2.19); 7.7945 (4.46); 7.7756 (0.82); 7.7707 (0.43); 7.7238 (2.98); 7.7058 (3.78); 7.7021 (2.84); 7.5630 (0.54); 7.5600 (0.40); 7.5510 (0.49); 7.5446 (1.81); 7.5389 (0.75); 7.5296 (1.11); 7.5265 (1.59); 7.4962 (2.76); 7.4805 (2.13); 7.4770 (3.51); 7.4634 (0.83); 7.4593 (1.45); 7.1028 (1.50); 7.0980 (1.55); 7.0870 (1.47); 7.0822 (1.53); 5.3350 (7.21); 4.0014 (0.95); 3.9861 (1.00); 3.9749 (1.68); 3.9595 (1.75); 3.9165 (1.66); 3.8997 (1.68); 3.8900 (1.07); 3.8731 (1.01); 3.3788 (0.32); 3.3388 (105.68); 3.0660 (16.00); 2.8913 (4.01); 2.8852 (0.59); 2.7321 (3.34); 2.5122 (12.39); 2.5080 (23.10); 2.5035 (30.13); 2.4990 (23.51); 2.4948 (13.50); 1.7201 (0.47); 1.7041 (0.77); 1.6875 (0.83); 1.6713 (0.59); 1.4677 (0.46); 1.4535 (0.61); 1.4490 (0.57); 1.4345 (0.96); 1.4200 (0.66); 1.4154 (0.78); 1.4014 (0.58); 1.3968 (0.34); 1.2034 (0.60); 1.1845 (0.95); 1.1662 (0.81); 1.1507 (0.82); 1.1321 (0.54); 0.9153 (8.10); 0.9093 (2.02); 0.8987 (9.35); 0.8827 (8.44); 0.8640 (3.59); -0.0002 (2.41)
Example 351, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.9367 (2.19); 7.9094 (2.80); 7.7273 (1.51); 7.7010 (2.68); 7.6738 (3.71); 7.6503 (4.21); 7.6298 (2.91); 7.3598 (3.09); 7.2657 (3.71); 7.1381 (2.56); 7.1102 (4.82); 7.0824 (2.43); 7.0175 (2.74); 6.9931 (2.57); 5.2887 (10.20); 4.7665 (1.61); 3.1025 (16.00); 2.0103 (1.78); 1.9000 (2.89); 1.7612 (2.38); 1.7329 (2.66); 1.6600 (1.31); 1.5381 (2.17); 1.5043 (2.70); 1.4667 (2.95); 1.4382 (3.08); 1.4133 (2.78); 1.3737 (2.38); 1.3325 (1.78); 1.2914 (1.31); 1.2566 (1.36); -0.0002 (1.31)
Example 352, Solvent: DMSO, Spectrometer: 399,95 MHz
11.1247 (2.29); 8.2819 (3.02); 8.2767 (3.08); 8.1528 (1.61); 8.1327 (1.99); 7.9901 (1.54); 7.9848 (1.44); 7.9691 (1.89); 7.9638 (1.89); 7.9541 (0.84); 7.9401 (1.33); 7.9207 (1.83); 7.9005 (1.20); 7.8033 (3.39); 7.7823 (2.78); 7.7390 (1.93); 7.7366 (2.53); 7.7327 (1.21); 7.7239 (0.72); 7.7188 (3.37); 7.7150 (2.34); 7.5684 (0.48); 7.5566 (0.34); 7.5501 (1.65); 7.5444 (0.46); 7.5352 (0.85); 7.5318 (1.41); 7.5284 (0.70); 7.5017 (2.36); 7.4982 (0.97); 7.4863 (1.56); 7.4825 (3.06); 7.4690 (0.46); 7.4649 (1.22); 7.4616 (0.66); 7.2556 (1.79); 7.2375 (1.74); 5.4211 (6.09); 3.3313 (38.37); 3.0778 (16.00); 2.8913 (6.82); 2.7325 (5.36); 2.5261 (0.44); 2.5213 (0.70); 2.5127 (8.87); 2.5082 (17.81); 2.5036 (23.56); 2.4990 (16.98); 2.4944 (8.00); -0.0002 (0.96)
Example 353, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8641 (1.93); 7.8004 (0.48); 7.7793 (1.24); 7.7622 (1.72); 7.7578 (1.49); 7.7541 (1.65); 7.7368 (0.71); 7.7321 (1.59); 7.7293 (1.89); 7.7255 (0.93); 7.7166 (0.58); 7.7115 (2.42); 7.7078 (1.70); 7.5676 (0.35); 7.5493 (1.16); 7.5436 (0.35); 7.5344 (0.63); 7.5311 (1.03); 7.5276 (0.53); 7.5004 (1.70); 7.4971 (0.75); 7.4851 (1.17); 7.4813 (2.18); 7.4678 (0.35); 7.4637 (0.87); 7.4604 (0.50); 7.0788 (0.97); 7.0752 (0.98); 7.0619 (0.92); 7.0583 (0.92); 5.3244 (4.26); 3.3896 (0.47); 3.3397 (41.48); 3.2899 (0.41); 3.0675 (11.33); 2.5304 (0.45); 2.5256 (0.75); 2.5169 (8.87); 2.5124 (18.25); 2.5079 (24.61); 2.5034 (17.32); 2.4989 (7.90); 1.7635 (0.58); 1.7461 (0.73); 1.7234 (0.82); 1.4389 (16.00); 1.3560 (0.38); 1.3488 (0.38); 1.3420 (0.50); 1.3322 (0.55); 1.3257 (0.57); 1.3174 (0.75); 1.3034 (0.99); 1.2877 (0.84); 1.2722 (0.64); 1.2522 (0.34); 0.9024 (1.88); 0.8850 (3.91); 0.8671 (1.36)
Example 354, Solvent: DMSO, Spectrometer: 400,13 MHz
7.5870 (0.36); 7.5372 (1.48); 7.5179 (2.69); 7.4986 (1.54); 7.4596 (1.32); 7.4401 (2.73); 7.4203 (1.72); 7.2590 (2.93); 7.2373 (5.70); 7.1701 (2.39); 7.1499 (2.05); 6.6317 (2.81); 6.6140 (2.67); 6.5162 (2.85); 6.4956 (2.72); 6.3123 (0.60); 6.2567 (0.53); 5.8756 (0.50); 5.8170 (0.73); 5.7902 (0.56); 5.7836 (0.56); 5.7699 (0.56); 5.2813 (9.40); 3.8363 (16.00); 2.5626 (19.23)
Example 355, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5306 (2.21); 8.0790 (1.28); 8.0583 (1.51); 7.8391 (1.28); 7.8197 (1.77); 7.7996 (1.16); 7.5405 (2.15); 7.5254 (0.63); 7.5216 (0.55); 7.5165

(0.97); 7.5134 (0.96); 7.5083 (0.59); 7.5039 (0.86); 7.4994 (0.65); 7.3715 (2.45); 7.3666 (1.59); 7.3602 (3.09); 7.3577 (3.11); 7.1366 (1.85); 7.1189 (1.73); 5.3526 (6.21); 3.3938 (0.48); 3.3440 (44.99); 3.2942 (0.40); 3.0464 (16.00); 2.5642 (0.42); 2.5597 (0.57); 2.5552 (0.45); 2.5322 (1.20); 2.5188 (17.84); 2.5144 (36.19); 2.5099 (48.86); 2.5055 (35.26); 2.5011 (16.57); 2.4647 (0.35); 2.4602 (0.45); 2.4556 (0.35); 2.3971 (1.70); 2.3787 (3.20); 2.3601 (1.92); 2.3385 (10.36); 1.6135 (0.39); 1.5951 (1.12); 1.5767 (1.56); 1.5588 (1.08); 1.5405 (0.36); 1.3257 (0.40); 1.3094 (0.87); 1.2930 (1.76); 1.2855 (2.58); 1.2781 (2.17); 1.2682 (1.76); 1.2583 (1.31); 1.2477 (0.78); 0.8868 (2.57); 0.8697 (6.50); 0.8520 (2.62)
Example 356, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4055 (0.86); 7.9526 (0.97); 7.7416 (1.96); 7.7391 (2.66); 7.7351 (1.30); 7.7266 (0.78); 7.7214 (3.44); 7.7176 (2.41); 7.5662 (0.47); 7.5548 (0.33); 7.5478 (1.66); 7.5420 (0.49); 7.5332 (0.91); 7.5298 (1.50); 7.5263 (0.75); 7.5042 (2.51); 7.5008 (1.08); 7.4892 (1.59); 7.4851 (3.10); 7.4718 (0.48); 7.4677 (1.21); 7.4641 (0.68); 7.3329 (4.75); 7.1872 (1.01); 7.1682 (1.82); 7.1475 (1.01); 6.7907 (3.25); 6.7723 (1.16); 6.7526 (0.88); 6.7489 (0.93); 6.7314 (0.91); 6.7253 (0.75); 5.3425 (5.89); 4.8140 (7.72); 3.3331 (69.47); 3.0202 (16.00); 2.8901 (8.02); 2.7316 (6.28); 2.7308 (6.36); 2.5248 (0.60); 2.5199 (0.94); 2.5114 (12.08); 2.5069 (24.17); 2.5023 (31.84); 2.4977 (23.01); 2.4932 (10.92); 2.2687 (10.20); -0.0002 (9.31)
Example 357, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8133 (2.49); 8.1659 (1.62); 8.1458 (1.95); 8.0943 (0.48); 8.0872 (3.90); 8.0821 (1.24); 8.0702 (1.31); 8.0650 (4.12); 8.0579 (0.47); 7.9137 (1.27); 7.8944 (1.78); 7.8742 (1.19); 7.7353 (2.62); 7.7315 (1.35); 7.7228 (0.88); 7.7176 (3.44); 7.7139 (2.43); 7.5662 (0.49); 7.5631 (0.33); 7.5544 (0.38); 7.5480 (1.68); 7.5423 (0.55); 7.5330 (0.92); 7.5297 (1.49); 7.5263 (0.79); 7.4998 (2.53); 7.4963 (1.37); 7.4893 (2.12); 7.4843 (2.40); 7.4807 (3.39); 7.4706 (3.07); 7.4679 (3.14); 7.4630 (1.77); 7.4599 (0.98); 7.4543 (1.00); 7.4493 (2.50); 7.4436 (0.39); 7.2677 (0.71); 7.2650 (1.21); 7.2624 (0.74); 7.2465 (1.90); 7.2306 (0.55); 7.2280 (0.91); 7.2253 (0.59); 7.2181 (1.82); 7.2002 (1.78); 7.1452 (2.67); 7.1424 (3.27); 7.1373 (1.02); 7.1260 (1.59); 7.1234 (2.80); 7.1211 (2.39); 7.0606 (0.63); 7.0533 (4.09); 7.0482 (1.25); 7.0413 (0.43); 7.0362 (1.26); 7.0311 (3.97); 7.0240 (0.40); 5.4142 (5.96); 3.3293 (61.05); 3.1567 (0.32); 3.0799 (16.00); 3.0545 (0.34); 2.8905 (0.51); 2.7320 (0.41); 2.7309 (0.41); 2.5250 (0.84); 2.5116 (14.83); 2.5071 (29.04); 2.5025 (37.92); 2.4979 (27.39); 2.4934 (12.99); 1.3070 (0.44); 0.8796 (0.73); 0.0080 (0.38); -0.0002 (9.88)
Example 358, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5367 (2.33); 8.0813 (1.35); 8.0606 (1.61); 7.8411 (1.25); 7.8216 (1.86); 7.8016 (1.16); 7.4233 (1.04); 7.4034 (2.27); 7.3833 (1.63); 7.2856 (1.58); 7.2660 (1.27); 7.2454 (1.65); 7.2397 (2.17); 7.2356 (1.50); 7.1459 (3.06); 7.1398 (1.36); 7.1265 (2.45); 7.1191 (1.10); 5.3603 (6.33); 3.7888 (16.00); 3.7596 (0.70); 3.3985 (0.35); 3.3486 (43.41); 3.2984 (0.45); 3.0441 (14.87); 2.5600 (0.36); 2.5319 (0.79); 2.5141 (28.51); 2.5097 (38.02); 2.5054 (27.97); 2.4638 (0.48); 2.4596 (0.54); 2.4055 (1.86); 2.3872 (3.47); 2.3686 (2.04); 1.5944 (0.48); 1.5762 (1.43); 1.5576 (2.01); 1.5390 (1.52); 1.5201 (0.60); 1.3663 (1.57); 1.3482 (0.34); 1.3296 (1.15); 1.3108 (1.88); 1.2920 (1.88); 1.2738 (1.12); 1.2556 (0.37); 0.9049 (4.05); 0.8867 (8.05); 0.8682 (3.41)
Example 359, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2837 (2.70); 7.9529 (0.61); 7.8240 (0.70); 7.8030 (1.72); 7.7855 (2.06); 7.7745 (1.96); 7.7717 (2.20); 7.7537 (0.82); 7.7508 (0.65); 7.7206 (2.64); 7.7168 (1.31); 7.7080 (0.83); 7.7029 (3.46); 7.6991 (2.45); 7.5630 (0.50); 7.5598 (0.32); 7.5511 (0.38); 7.5447 (1.65); 7.5390 (0.52); 7.5298 (0.90); 7.5265 (1.45); 7.5231 (0.76); 7.4955 (2.45); 7.4921 (1.09); 7.4800 (1.70); 7.4763 (3.15); 7.4627 (0.51); 7.4586 (1.25); 7.4555 (0.73); 7.4144 (1.30); 7.4101 (2.22); 7.4064 (1.41); 7.3538 (0.61); 7.3448 (0.32); 7.3383 (0.78); 7.3309 (1.48); 7.3162 (2.37); 7.2947 (2.87); 7.2931 (2.90); 7.2901 (3.18); 7.2784 (1.27); 7.2731 (1.52); 7.2677 (0.91); 7.2600 (1.27); 7.2437 (1.56); 7.1062 (1.48); 7.1034 (1.52); 7.0889 (1.49); 7.0859 (1.43); 5.3320 (6.22); 4.4341 (0.54); 4.3114 (1.59); 4.2948 (3.64); 4.2783 (1.67); 3.3484 (195.53); 3.0598 (16.00); 3.0114 (0.40); 2.9615 (1.41); 2.9449 (2.93); 2.9285 (1.37); 2.8911 (4.89); 2.7326 (3.85); 2.7316 (3.88); 2.5263 (0.82); 2.5129 (15.31); 2.5085 (30.23); 2.5039 (39.71); 2.4993 (28.97); 2.4947 (13.99); 1.2345 (0.38); -0.0002 (1.72)
Example 360, Solvent: DMSO, Spectrometer: 499,93 MHz
8.6977 (5.13); 7.6370 (4.31); 7.6207 (4.47); 7.4018 (4.84); 7.3731 (0.38); 7.3568 (0.34); 7.3117 (4.27); 7.2955 (3.73); 7.0151 (0.49); 6.6708 (0.35); 5.3552 (8.40); 5.3273 (0.42); 5.1904 (0.78); 3.8201 (0.43); 3.5097 (15.51); 3.3228 (20.07); 3.2996 (0.64); 3.2803 (0.69); 3.0748 (16.00); 3.0403 (0.51); 2.5163 (2.66); 2.5132 (3.23); 2.3805 (1.26); 2.3747 (1.77); 2.3602 (13.33); 1.9994 (0.39); 1.2548 (0.41); 0.8685 (0.45)
Example 361, Solvent: DMSO, Spectrometer: 400,13 MHz
7.8582 (0.57); 5.3915 (0.63); 4.1510 (0.45); 3.8436 (1.74); 3.4133 (16.00); 3.1114 (1.61); 2.9519 (0.35); 2.5740 (0.97); 2.5696 (2.00); 2.5650 (2.71); 2.5605 (1.91); 2.5561 (0.87); 0.9860 (0.43); 0.9676 (0.88); 0.9491 (0.36)
Example 362, Solvent: DMSO, Spectrometer: 300,16 MHz
10.5351 (2.08); 8.1083 (1.37); 8.0811 (1.69); 7.8613 (1.22); 7.8356 (1.74); 7.8086 (1.11); 7.4422 (0.88); 7.4159 (2.15); 7.3892 (1.62); 7.3001 (1.49); 7.2728 (1.17); 7.2575 (1.54); 7.2497 (1.95); 7.2442 (1.31); 7.1632 (2.71); 7.1541 (1.14); 7.1403 (1.87); 7.1269 (0.92); 5.7807 (0.43); 5.3737 (5.71); 3.8222 (0.34); 3.8008 (16.00); 3.7716 (0.49); 3.3520 (75.07); 3.0552 (14.49); 2.5332 (8.46); 2.5272 (17.99); 2.5212 (24.66); 2.5152 (17.79); 2.5093 (8.39); 2.2963 (3.23); 2.2725 (4.11); 2.1237 (0.35); 2.1014 (0.69); 2.0787 (0.80); 2.0562 (0.59); 1.3779 (0.98); 0.9412 (14.50); 0.9191 (14.05)
Example 363, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2058 (2.43); 7.8309 (0.51); 7.8099 (2.06); 7.7968 (2.75); 7.7941 (3.85); 7.7762 (0.59); 7.7248 (2.08); 7.7224 (2.63); 7.7185 (1.25); 7.7097 (0.84); 7.7046 (3.45); 7.7009 (2.35); 7.5621 (0.50); 7.5502 (0.39); 7.5438 (1.68); 7.5381 (0.49); 7.5289 (0.92); 7.5256 (1.45); 7.5221 (0.73); 7.4951 (2.45); 7.4917 (1.04); 7.4797 (1.71); 7.4760 (3.13); 7.4624 (0.50); 7.4583 (1.23); 7.4551 (0.68); 7.1052 (1.36); 7.1002 (1.37); 7.0896 (1.21); 7.0845 (1.27); 5.8636 (0.62); 5.8548 (0.33); 5.8378 (0.95); 5.8207 (0.99); 5.8117 (0.36); 5.8038 (0.36); 5.7949 (0.75); 5.7781 (0.35); 5.3311 (6.55); 5.1709 (0.49); 5.1670 (1.16); 5.1623 (1.23); 5.1584 (0.51); 5.1278 (0.45); 5.1239 (1.03); 5.1191 (1.09); 5.1153 (0.45); 5.0897 (0.60); 5.0870 (1.17); 5.0845 (0.98); 5.0821 (1.01); 5.0792 (0.49); 5.0641 (0.55); 5.0614 (1.08); 5.0589 (0.90); 5.0565 (0.94); 5.0536 (0.44);

4.1605 (2.18); 4.1436 (4.67); 4.1267 (2.22); 3.3294 (51.59); 3.0657 (16.00); 2.8907 (1.00); 2.7320 (0.79); 2.7311 (0.79); 2.5251 (0.60); 2.5118 (10.47); 2.5073 (20.50); 2.5027 (26.80); 2.4981 (19.33); 2.4936 (9.13); 2.4081 (0.71); 2.4050 (0.48); 2.3945 (1.33); 2.3913 (2.11); 2.3881 (1.33); 2.3777 (1.36); 2.3745 (2.08); 2.3712 (1.27); 2.3608 (0.50); 2.3576 (0.69); 0.9336 (0.63); -0.0002 (8.80)
Example 364, Solvent: DMSO, Spectrometer: 399,95 MHz
10.9348 (2.13); 8.1578 (1.55); 8.1380 (1.90); 8.1219 (1.89); 8.1165 (0.74); 8.1082 (2.06); 8.0996 (2.10); 8.0914 (0.76); 8.0859 (1.94); 7.9532 (0.70); 7.9258 (1.27); 7.9065 (1.73); 7.8863 (1.16); 7.7387 (1.86); 7.7360 (2.47); 7.7321 (1.19); 7.7234 (0.75); 7.7183 (3.30); 7.7145 (2.28); 7.5684 (0.47); 7.5566 (0.33); 7.5501 (1.60); 7.5444 (0.48); 7.5352 (0.87); 7.5319 (1.43); 7.5284 (0.73); 7.5021 (2.30); 7.4986 (1.02); 7.4868 (1.54); 7.4829 (3.00); 7.4694 (0.47); 7.4653 (1.23); 7.4620 (0.70); 7.3623 (2.08); 7.3570 (0.63); 7.3452 (0.74); 7.3401 (3.94); 7.3349 (0.72); 7.3232 (0.64); 7.3179 (1.93); 7.2351 (1.69); 7.2167 (1.66); 5.4185 (5.92); 3.3521 (65.03); 3.3478 (91.92); 3.0808 (16.00); 2.8914 (5.86); 2.7327 (4.71); 2.7318 (4.45); 2.5266 (0.55); 2.5219 (0.86); 2.5133 (11.02); 2.5088 (22.14); 2.5041 (29.22); 2.4995 (21.11); 2.4950 (9.92); -0.0002 (0.99)
Example 365, Solvent: DMSO, Spectrometer: 399,95 MHz
10.4916 (1.94); 8.0771 (1.31); 8.0565 (1.55); 7.9535 (0.37); 7.8305 (1.26); 7.8112 (1.74); 7.7909 (1.19); 7.7260 (1.96); 7.7235 (2.58); 7.7196 (1.29); 7.7109 (0.81); 7.7057 (3.49); 7.7020 (2.37); 7.5641 (0.49); 7.5522 (0.37); 7.5458 (1.63); 7.5401 (0.49); 7.5309 (0.87); 7.5275 (1.43); 7.5241 (0.72); 7.4964 (2.42); 7.4929 (1.04); 7.4810 (1.65); 7.4772 (3.08); 7.4637 (0.48); 7.4596 (1.24); 7.4564 (0.69); 7.1404 (1.74); 7.1230 (1.68); 5.3549 (6.16); 3.3289 (49.21); 3.0551 (16.00); 2.8908 (3.03); 2.7323 (2.37); 2.7312 (2.39); 2.5254 (0.56); 2.5205 (0.88); 2.5120 (10.34); 2.5075 (20.59); 2.5029 (27.23); 2.4983 (19.80); 2.4937 (9.46); 2.3940 (3.07); 2.3755 (3.88); 2.2278 (0.67); 2.2090 (0.83); 2.1898 (0.63); 1.7463 (0.62); 1.7344 (0.86); 1.7166 (0.92); 1.7061 (0.68); 1.7036 (0.69); 1.6962 (0.37); 1.6881 (0.42); 1.6193 (0.36); 1.6130 (0.56); 1.6045 (0.82); 1.5924 (1.07); 1.5852 (0.66); 1.5811 (0.68); 1.5752 (0.82); 1.5689 (0.49); 1.5648 (0.42); 1.5597 (0.38); 1.5521 (0.38); 1.5359 (0.40); 1.5197 (0.49); 1.5173 (0.50); 1.5104 (0.79); 1.5011 (0.83); 1.4927 (0.96); 1.4806 (0.80); 1.4739 (0.54); 1.2029 (0.32); 1.1844 (0.80); 1.1707 (0.73); 1.1652 (0.88); 1.1538 (0.81); 1.1456 (0.59); 1.1350 (0.66); 0.8757 (0.47); -0.0002 (9.08)
Example 366, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5689 (0.71); 7.9536 (0.80); 7.7420 (1.98); 7.7394 (2.76); 7.7355 (1.39); 7.7269 (0.78); 7.7218 (3.54); 7.7180 (2.54); 7.5676 (0.49); 7.5561 (0.35); 7.5492 (1.73); 7.5434 (0.51); 7.5345 (0.95); 7.5311 (1.58); 7.5276 (0.79); 7.5052 (2.60); 7.5019 (1.14); 7.4901 (1.63); 7.4862 (3.19); 7.4728 (0.53); 7.4686 (1.41); 7.4641 (1.72); 7.4599 (1.63); 7.4443 (1.37); 7.4403 (1.71); 7.3470 (4.63); 7.2809 (0.73); 7.2769 (0.72); 7.2619 (1.14); 7.2605 (1.14); 7.2572 (1.38); 7.2416 (0.98); 7.2375 (0.92); 6.9949 (0.82); 6.9916 (1.12); 6.9760 (1.25); 6.9723 (3.41); 6.9565 (0.65); 6.9530 (1.52); 6.9507 (1.71); 5.3432 (5.84); 5.1284 (0.38); 5.1120 (1.40); 5.0953 (1.41); 5.0788 (0.38); 3.3436 (52.87); 3.0291 (16.00); 3.0209 (0.61); 3.0145 (0.82); 2.8910 (6.58); 2.7328 (5.23); 2.7318 (5.12); 2.5267 (0.40); 2.5218 (0.61); 2.5133 (7.53); 2.5088 (15.09); 2.5042 (19.94); 2.4996 (14.42); 2.4950 (6.79); 1.5950 (5.61); 1.5785 (5.57); 1.5502 (0.34); -0.0002 (2.09)
Example 367, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1886 (1.49); 7.9742 (1.03); 7.9533 (1.86); 7.8599 (0.98); 7.8409 (1.25); 7.8204 (0.78); 7.7249 (1.38); 7.7222 (1.84); 7.7184 (0.88); 7.7096 (0.56); 7.7045 (2.43); 7.7008 (1.68); 7.5637 (0.35); 7.5454 (1.15); 7.5397 (0.34); 7.5304 (0.61); 7.5271 (1.00); 7.5237 (0.51); 7.4954 (1.70); 7.4919 (0.73); 7.4799 (1.18); 7.4762 (2.17); 7.4626 (0.35); 7.4585 (0.88); 7.4554 (0.49); 7.1829 (1.23); 7.1657 (1.17); 5.3786 (4.29); 3.3399 (87.21); 3.0540 (11.56); 2.8907 (3.99); 2.7321 (3.20); 2.7308 (3.19); 2.5254 (0.51); 2.5205 (0.82); 2.5120 (9.20); 2.5075 (18.19); 2.5029 (23.84); 2.4983 (17.24); 2.4937 (8.10); 2.0474 (11.49); 1.5590 (16.00); -0.0002 (1.91)
Example 368, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4336 (0.66); 7.9525 (1.16); 7.7388 (2.80); 7.7349 (1.38); 7.7263 (0.82); 7.7211 (3.54); 7.7173 (2.48); 7.5670 (0.48); 7.5638 (0.32); 7.5557 (0.35); 7.5487 (1.73); 7.5428 (0.53); 7.5340 (0.95); 7.5306 (1.56); 7.5272 (0.81); 7.5051 (2.64); 7.5019 (1.16); 7.4901 (1.67); 7.4861 (3.22); 7.4727 (0.50); 7.4686 (1.25); 7.4651 (0.71); 7.3431 (5.06); 7.3246 (2.70); 7.3042 (1.76); 7.0929 (1.38); 7.0875 (2.46); 7.0820 (1.79); 7.0472 (1.17); 7.0455 (1.36); 7.0425 (1.07); 7.0407 (1.04); 7.0274 (1.05); 7.0256 (1.13); 7.0226 (1.00); 7.0208 (0.90); 6.9708 (1.10); 6.9692 (1.16); 6.9647 (1.05); 6.9631 (1.01); 6.9499 (1.01); 6.9483 (1.01); 6.9437 (0.97); 6.9421 (0.90); 5.3456 (5.96); 4.8919 (7.46); 3.3483 (158.79); 3.0350 (0.40); 3.0221 (16.00); 2.8908 (9.32); 2.7319 (7.35); 2.7314 (7.37); 2.5259 (0.72); 2.5126 (14.07); 2.5081 (27.94); 2.5035 (36.92); 2.4989 (26.94); 2.4945 (12.93); 2.2231 (0.42); -0.0002 (0.60)
Example 369, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2328 (2.72); 7.9531 (0.61); 7.8207 (0.61); 7.7997 (1.83); 7.7827 (3.03); 7.7763 (2.46); 7.7591 (0.69); 7.7554 (0.41); 7.7231 (2.73); 7.7053 (3.53); 7.7016 (2.50); 7.5627 (0.50); 7.5595 (0.32); 7.5507 (0.38); 7.5444 (1.68); 7.5387 (0.52); 7.5293 (0.97); 7.5261 (1.48); 7.5228 (0.77); 7.4954 (2.50); 7.4798 (1.84); 7.4763 (3.22); 7.4625 (0.55); 7.4586 (1.28); 7.4555 (0.75); 7.2587 (1.38); 7.2423 (1.85); 7.1920 (2.44); 7.1721 (4.14); 7.1597 (0.80); 7.1392 (0.66); 7.1156 (3.70); 7.1024 (2.04); 7.0986 (2.85); 7.0861 (1.52); 7.0823 (1.42); 5.3304 (6.54); 4.3815 (0.70); 4.3646 (0.32); 4.2681 (1.69); 4.2507 (3.80); 4.2334 (1.75); 3.3295 (63.37); 3.0624 (16.00); 2.9435 (0.52); 2.8990 (1.52); 2.8903 (5.03); 2.8817 (3.06); 2.8646 (1.38); 2.7319 (3.79); 2.7310 (3.61); 2.5247 (0.75); 2.5113 (14.79); 2.5069 (28.69); 2.5023 (37.13); 2.4978 (27.13); 2.4933 (13.12); 2.2794 (1.68); 2.2636 (10.00); 1.2348 (0.33); 0.0079 (0.33); -0.0002 (9.04)
Example 370, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1253 (2.00); 7.6237 (1.13); 7.6171 (1.49); 7.6135 (1.37); 7.6026 (0.98); 7.5961 (2.56); 7.5930 (3.18); 7.5691 (0.79); 7.5550 (0.89); 7.5489 (1.24); 7.5346 (1.15); 7.5300 (0.75); 7.5137 (0.48); 7.4304 (0.58); 7.4277 (0.63); 7.4242 (0.58); 7.4214 (0.54); 7.4069 (1.04); 7.4025 (0.92); 7.3882 (0.48); 7.3845 (0.49); 7.3793 (0.37); 7.2839 (4.74); 5.7615 (0.39); 5.3434 (6.68); 3.4016 (3.20); 3.3516 (203.75); 3.3016 (2.30); 3.0126 (16.00); 2.5620 (0.58); 2.5577 (0.74); 2.5532 (0.65); 2.5163 (15.04); 2.5122 (28.70); 2.5078 (37.42); 2.5034 (26.78); 2.4624 (0.40); 2.4577 (0.45); 2.4532 (0.37); 2.4321 (2.08); 2.4137 (3.72); 2.3950 (2.20); 1.6063 (0.54); 1.5880 (1.54); 1.5694 (2.11); 1.5508 (1.58); 1.5318 (0.61); 1.3402 (0.36); 1.3216 (1.22); 1.3028 (1.98); 1.2841 (1.97); 1.2658 (1.18); 1.2477 (0.39); 0.8961 (4.28); 0.8778 (8.45); 0.8593 (3.56)
Example 371, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6146 (2.17); 8.0199 (1.49); 8.0000 (1.97); 7.9530 (1.33); 7.8761 (1.36); 7.8569 (1.80); 7.8366 (1.14); 7.7192 (2.63); 7.7155 (1.24); 7.7064

(0.87); 7.7015 (3.46); 7.6978 (2.36); 7.5628 (0.51); 7.5596 (0.33); 7.5507 (0.40); 7.5445 (1.65); 7.5389 (0.49); 7.5295 (0.89); 7.5262 (1.41); 7.5228 (0.70); 7.4927 (2.39); 7.4893 (1.01); 7.4771 (1.74); 7.4735 (3.10); 7.4598 (0.51); 7.4558 (1.24); 7.4527 (0.68); 7.2076 (1.78); 7.1900 (1.69); 5.3794 (6.02); 3.3328 (126.76); 3.0495 (16.00); 2.8911 (10.81); 2.7323 (8.42); 2.7313 (8.66); 2.5253 (0.91); 2.5120 (16.93); 2.5075 (32.95); 2.5029 (42.83); 2.4983 (30.77); 2.4937 (14.35); 2.1610 (1.78); 2.1401 (1.87); 1.7355 (0.68); 1.7206 (2.55); 1.7002 (2.42); 1.2522 (5.41); 1.2352 (5.18); 1.0915 (4.77); 1.0742 (4.48); 0.0080 (0.45); -0.0002 (12.06); -0.0085 (0.35)
Example 372, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2150 (1.04); 7.8145 (0.82); 7.7973 (1.51); 7.7918 (1.11); 7.7284 (0.90); 7.7257 (1.13); 7.7219 (0.55); 7.7131 (0.36); 7.7080 (1.50); 7.7043 (1.05); 7.5454 (0.73); 7.5304 (0.40); 7.5270 (0.64); 7.4967 (1.06); 7.4932 (0.45); 7.4813 (0.74); 7.4776 (1.36); 7.4599 (0.55); 7.1047 (0.61); 7.1007 (0.62); 7.0881 (0.59); 7.0841 (0.57); 5.3430 (2.80); 3.7969 (4.10); 3.3291 (22.59); 3.0627 (7.19); 2.8911 (1.94); 2.7323 (1.60); 2.7311 (1.49); 2.5204 (0.44); 2.5119 (4.93); 2.5074 (9.74); 2.5028 (12.79); 2.4982 (9.24); 2.4937 (4.38); 0.9337 (16.00); 0.9052 (0.49); -0.0002 (4.50)
Example 373, Solvent: DMSO, Spectrometer: 399,95 MHz
12.8166 (1.73); 8.0306 (0.53); 8.0246 (3.75); 8.0201 (1.32); 8.0077 (1.43); 8.0031 (4.57); 7.9973 (0.64); 7.9532 (1.72); 7.7729 (4.38); 7.7684 (1.48); 7.7513 (4.17); 7.7453 (3.35); 7.7325 (0.91); 7.7275 (3.54); 7.7237 (2.55); 7.5677 (0.47); 7.5646 (0.34); 7.5564 (0.36); 7.5492 (1.74); 7.5435 (0.55); 7.5346 (0.97); 7.5313 (1.57); 7.5279 (0.85); 7.5067 (2.68); 7.4914 (1.72); 7.4875 (3.28); 7.4741 (0.52); 7.4700 (1.24); 7.4665 (0.78); 7.3919 (3.72); 5.3835 (6.09); 3.3302 (82.54); 3.0168 (16.00); 2.8909 (13.13); 2.7316 (10.91); 2.5252 (0.87); 2.5118 (16.23); 2.5074 (31.73); 2.5029 (41.54); 2.4984 (30.46); 2.4939 (14.82); 0.0078 (0.53); -0.0002 (13.09); -0.0085 (0.43)
Example 374, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5338 (2.12); 8.0745 (1.30); 8.0537 (1.55); 7.8361 (1.30); 7.8168 (1.83); 7.7966 (1.19); 7.7234 (2.66); 7.7105 (0.83); 7.7055 (3.46); 7.7017 (2.39); 7.5648 (0.48); 7.5528 (0.38); 7.5464 (1.69); 7.5408 (0.47); 7.5315 (0.91); 7.5282 (1.41); 7.5249 (0.71); 7.4974 (2.46); 7.4818 (1.72); 7.4781 (3.15); 7.4645 (0.49); 7.4605 (1.23); 7.4572 (0.69); 7.1438 (1.86); 7.1256 (1.78); 5.3553 (6.54); 3.5493 (2.35); 3.5325 (5.06); 3.5157 (2.42); 3.3346 (104.02); 3.0721 (0.33); 3.0543 (16.00); 2.8910 (2.52); 2.7319 (2.05); 2.5253 (0.71); 2.5204 (1.10); 2.5119 (14.07); 2.5074 (27.95); 2.5029 (36.72); 2.4983 (26.58); 2.4938 (12.60); 2.4108 (1.52); 2.3926 (3.02); 2.3741 (1.66); 1.8517 (0.47); 1.8347 (1.35); 1.8168 (1.56); 1.7975 (1.43); 1.7806 (0.54); 1.6361 (0.36); 1.6177 (1.09); 1.5990 (1.53); 1.5801 (1.22); 1.5613 (0.48); 1.4378 (0.49); 1.4239 (0.68); 1.4180 (1.11); 1.4079 (0.65); 1.4001 (1.50); 1.3863 (0.57); 1.3797 (0.77); -0.0002 (4.11)
Example 375, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7390 (1.95); 8.0257 (1.22); 8.0050 (1.51); 7.9529 (0.71); 7.8287 (1.27); 7.8095 (1.74); 7.7891 (1.15); 7.7214 (2.53); 7.7176 (1.21); 7.7088 (0.75); 7.7037 (3.38); 7.6999 (2.36); 7.5638 (0.47); 7.5519 (0.34); 7.5455 (1.60); 7.5399 (0.46); 7.5305 (0.84); 7.5272 (1.38); 7.5238 (0.69); 7.4953 (2.34); 7.4918 (0.98); 7.4798 (1.61); 7.4761 (3.06); 7.4625 (0.48); 7.4584 (1.23); 7.4552 (0.68); 7.2292 (2.44); 7.2092 (3.60); 7.1518 (1.74); 7.1328 (1.91); 7.1252 (3.15); 7.1056 (2.16); 5.3645 (6.09); 3.6570 (5.26); 3.3287 (60.75); 3.0473 (16.00); 2.8901 (5.80); 2.7316 (4.56); 2.7307 (4.56); 2.5247 (0.55); 2.5199 (0.94); 2.5114 (13.05); 2.5069 (26.19); 2.5023 (34.53); 2.4976 (24.97); 2.4931 (11.82); 2.2637 (9.60); 0.0080 (0.53); -0.0002 (15.92); -0.0086 (0.47)
Example 376, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5833 (2.13); 8.1412 (1.25); 8.1205 (1.46); 7.8987 (1.25); 7.8794 (1.75); 7.8591 (1.15); 7.6809 (0.63); 7.6768 (0.94); 7.6712 (0.89); 7.6656 (0.68); 7.6624 (1.10); 7.6588 (0.88); 7.6560 (0.93); 7.6516 (1.17); 7.6454 (2.31); 7.6427 (2.11); 7.6216 (0.72); 7.6074 (0.82); 7.6015 (1.08); 7.5870 (1.18); 7.5819 (0.55); 7.5664 (0.51); 7.4921 (0.50); 7.4892 (0.56); 7.4857 (0.49); 7.4828 (0.46); 7.4679 (0.86); 7.4642 (0.75); 7.4498 (0.40); 7.4469 (0.41); 7.4438 (0.38); 7.2126 (1.79); 7.1949 (1.71); 5.8243 (2.54); 5.4358 (6.17); 3.4481 (0.51); 3.3982 (42.17); 3.3482 (0.41); 3.1093 (16.00); 2.6199 (0.41); 2.6154 (0.58); 2.6109 (0.43); 2.5880 (0.82); 2.5833 (1.32); 2.5744 (16.94); 2.5700 (35.55); 2.5655 (48.62); 2.5610 (34.80); 2.5567 (16.18); 2.5201 (0.38); 2.5155 (0.49); 2.5110 (0.36); 2.4528 (1.65); 2.4344 (3.10); 2.4158 (1.79); 1.6686 (0.36); 1.6502 (1.06); 1.6318 (1.48); 1.6139 (1.03); 1.5956 (0.34); 1.3808 (0.37); 1.3648 (0.79); 1.3481 (1.60); 1.3406 (2.40); 1.3333 (2.01); 1.3233 (1.64); 1.3135 (1.18); 1.3028 (0.62); 1.2954 (0.48); 0.9418 (2.45); 0.9247 (6.33); 0.9069 (2.54)
Example 377, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5486 (2.09); 8.0769 (1.15); 8.0562 (1.36); 7.9534 (0.40); 7.8355 (1.28); 7.8162 (1.74); 7.7960 (1.17); 7.7238 (2.56); 7.7199 (1.23); 7.7111 (0.75); 7.7060 (3.41); 7.7022 (2.36); 7.5630 (0.48); 7.5511 (0.34); 7.5447 (1.65); 7.5390 (0.47); 7.5298 (0.85); 7.5264 (1.40); 7.5230 (0.71); 7.4954 (2.37); 7.4919 (1.01); 7.4799 (1.61); 7.4762 (3.08); 7.4626 (0.46); 7.4585 (1.21); 7.4553 (0.68); 7.2984 (1.10); 7.2945 (0.45); 7.2799 (2.65); 7.2661 (0.85); 7.2616 (2.54); 7.2105 (3.24); 7.1929 (2.59); 7.1743 (1.40); 7.1691 (0.35); 7.1597 (0.35); 7.1563 (0.55); 7.1434 (1.77); 7.1255 (1.71); 5.3532 (6.15); 3.3283 (54.14); 3.0539 (16.00); 2.8904 (3.35); 2.7316 (2.62); 2.6157 (1.44); 2.5970 (1.93); 2.5770 (1.62); 2.5249 (0.68); 2.5202 (1.04); 2.5116 (12.85); 2.5071 (25.62); 2.5025 (33.69); 2.4979 (24.30); 2.4933 (11.46); 2.4397 (1.45); 2.4214 (2.77); 2.4029 (1.64); 1.9101 (0.44); 1.8910 (1.21); 1.8719 (1.51); 1.8530 (1.12); 1.8344 (0.35); 0.0080 (0.35); -0.0002 (10.62)
Example 378, Solvent: DMSO, Spectrometer: 399,95 MHz
12.4210 (2.01); 7.9530 (1.04); 7.7377 (1.93); 7.7351 (2.62); 7.7311 (1.25); 7.7227 (0.78); 7.7175 (3.41); 7.7136 (2.33); 7.5639 (0.46); 7.5525 (0.33); 7.5456 (1.65); 7.5397 (0.48); 7.5309 (0.91); 7.5275 (1.49); 7.5240 (0.74); 7.5017 (2.48); 7.4983 (1.05); 7.4867 (1.59); 7.4826 (3.05); 7.4693 (0.48); 7.4651 (1.20); 7.4616 (0.66); 7.3453 (0.34); 7.3315 (0.52); 7.3262 (3.12); 7.3209 (3.45); 7.3124 (12.83); 7.3042 (0.57); 7.2996 (0.69); 7.2771 (4.45); 7.2657 (0.78); 7.2633 (0.69); 7.2597 (0.55); 7.2542 (0.62); 7.2508 (0.78); 7.2458 (0.53); 7.2405 (0.34); 7.2370 (0.39); 5.3279 (5.95); 3.7498 (7.45); 3.3295 (25.43); 3.3275 (36.79); 3.0163 (16.00); 2.8900 (8.57); 2.7315 (6.74); 2.5246 (0.63); 2.5198 (0.98); 2.5114 (11.58); 2.5068 (22.97); 2.5022 (30.18); 2.4976 (21.76); 2.4931 (10.27); 0.0080 (0.42); -0.0002 (11.84); -0.0085 (0.35)
Example 379, Solvent: DMSO, Spectrometer: 399,95 MHz
10.0901 (1.67); 8.0496 (1.08); 8.0289 (1.34); 7.8809 (1.28); 7.8615 (1.78); 7.8414 (1.10); 7.7331 (0.32); 7.7276 (1.93); 7.7249 (2.49); 7.7211 (1.26); 7.7124 (0.82); 7.7072 (3.43); 7.7035 (2.32); 7.5652 (0.48); 7.5533 (0.36); 7.5469 (1.58); 7.5412 (0.48); 7.5320 (0.86); 7.5286 (1.39); 7.5252 (0.71); 7.4976 (2.35); 7.4941 (1.03); 7.4822 (1.61); 7.4785 (2.99); 7.4649 (0.47); 7.4608 (1.20); 7.4576 (0.66); 7.1874 (1.70); 7.1700

(1.64); 5.3671 (6.32); 4.0642 (8.62); 3.3601 (19.81); 3.3284 (43.74); 3.0675 (16.00); 2.5251 (0.60); 2.5202 (0.98); 2.5117 (10.28); 2.5072 (20.13); 2.5026 (26.35); 2.4980 (19.02); 2.4935 (8.98); 0.8758 (0.53); 0.0080 (0.32); -0.0002 (8.55)
Example 380, Solvent: DMSO, Spectrometer: 399,95 MHz
11.0468 (2.33); 8.2087 (1.47); 8.2042 (2.62); 8.1998 (1.55); 8.1544 (1.61); 8.1345 (1.97); 8.0191 (0.91); 8.0166 (1.21); 8.0128 (0.93); 7.9996 (1.03); 7.9969 (1.25); 7.9958 (1.26); 7.9932 (0.98); 7.9531 (0.92); 7.9344 (1.31); 7.9151 (1.83); 7.8949 (1.17); 7.8119 (0.91); 7.8095 (1.05); 7.8070 (0.99); 7.8046 (0.90); 7.7919 (1.07); 7.7895 (1.12); 7.7870 (1.15); 7.7846 (0.98); 7.7390 (1.93); 7.7365 (2.57); 7.7326 (1.26); 7.7239 (0.76); 7.7187 (3.37); 7.7150 (2.37); 7.5684 (0.47); 7.5565 (0.33); 7.5500 (1.61); 7.5443 (0.48); 7.5351 (0.86); 7.5318 (1.42); 7.5284 (0.74); 7.5015 (3.00); 7.4867 (1.68); 7.4810 (4.00); 7.4694 (0.53); 7.4653 (1.29); 7.4609 (1.73); 7.2472 (1.78); 7.2293 (1.72); 5.4193 (6.15); 3.3474 (79.23); 3.3440 (115.92); 3.0810 (16.00); 2.8912 (7.35); 2.7325 (5.82); 2.7316 (5.74); 2.5262 (0.60); 2.5215 (0.91); 2.5129 (12.27); 2.5084 (24.79); 2.5038 (32.90); 2.4992 (24.02); 2.4947 (11.54); -0.0002 (7.80)
Example 381, Solvent: DMSO, Spectrometer: 399,95 MHz
10.8881 (1.89); 8.0482 (1.10); 8.0275 (1.34); 7.9534 (1.17); 7.8927 (2.02); 7.8861 (1.51); 7.8778 (2.27); 7.8692 (2.28); 7.8581 (2.00); 7.8435 (1.97); 7.8362 (1.41); 7.8169 (1.65); 7.7965 (1.12); 7.7256 (1.87); 7.7229 (2.46); 7.7190 (1.18); 7.7103 (0.75); 7.7051 (3.35); 7.7014 (2.30); 7.5624 (0.48); 7.5504 (0.35); 7.5441 (1.59); 7.5384 (0.47); 7.5291 (0.90); 7.5257 (1.53); 7.5217 (1.95); 7.5170 (1.62); 7.5052 (1.46); 7.4996 (2.24); 7.4952 (4.17); 7.4886 (2.90); 7.4813 (1.57); 7.4780 (2.28); 7.4744 (3.58); 7.4566 (1.36); 7.4538 (0.79); 7.1606 (1.66); 7.1431 (1.61); 5.3758 (5.74); 3.9037 (4.99); 3.3314 (84.48); 3.0547 (16.00); 2.8902 (9.91); 2.7319 (7.85); 2.7308 (7.61); 2.5251 (0.76); 2.5204 (1.22); 2.5118 (14.47); 2.5073 (28.90); 2.5027 (38.06); 2.4980 (27.38); 2.4935 (12.84); -0.0002 (8.50)
Example 382, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6884 (2.06); 8.0222 (0.67); 8.0016 (0.87); 7.8850 (1.29); 7.8658 (1.69); 7.8455 (1.07); 7.7315 (1.88); 7.7287 (2.48); 7.7249 (1.18); 7.7162 (0.74); 7.7110 (3.35); 7.7073 (2.30); 7.5671 (0.48); 7.5552 (0.34); 7.5488 (1.58); 7.5431 (0.46); 7.5339 (0.84); 7.5305 (1.39); 7.5271 (0.69); 7.4993 (2.27); 7.4958 (0.95); 7.4839 (1.56); 7.4802 (2.95); 7.4666 (0.46); 7.4625 (1.21); 7.4593 (0.65); 7.2827 (1.19); 7.2625 (2.51); 7.2421 (1.92); 7.2081 (1.68); 7.1996 (1.41); 7.1945 (2.27); 7.1891 (3.17); 7.1695 (1.29); 7.1673 (1.51); 7.1652 (1.12); 7.1629 (1.00); 7.1498 (0.92); 7.1476 (0.93); 7.1453 (0.86); 7.1432 (0.68); 6.9984 (1.00); 6.9963 (1.04); 6.9922 (0.98); 6.9901 (0.93); 6.9776 (0.91); 6.9755 (0.88); 6.9713 (0.88); 6.9693 (0.78); 5.3865 (5.76); 4.8406 (5.38); 3.3339 (77.04); 3.0689 (16.00); 2.8905 (0.35); 2.5253 (0.71); 2.5205 (1.15); 2.5119 (13.10); 2.5074 (26.04); 2.5027 (34.22); 2.4981 (24.64); 2.4935 (11.54); -0.0002 (2.40)
Example 383, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.9456 (2.10); 7.9178 (2.65); 7.7269 (1.43); 7.7001 (2.53); 7.6728 (3.34); 7.6472 (3.04); 7.6295 (2.57); 7.2642 (9.28); 7.1378 (2.26); 7.1118 (4.37); 7.0844 (2.20); 7.0178 (2.62); 6.9930 (2.44); 5.2842 (9.93); 5.0332 (0.71); 5.0110 (1.22); 4.9903 (1.22); 4.9702 (0.68); 3.1054 (16.00); 1.7335 (0.39); 1.7115 (0.86); 1.6900 (1.19); 1.6663 (1.21); 1.6532 (1.29); 1.6116 (8.38); 1.5884 (1.39); 1.5662 (0.71); 1.3629 (0.77); 1.3428 (1.15); 1.3207 (1.40); 1.2955 (8.48); 1.2748 (8.38); 0.9369 (14.57); 0.9159 (13.90); -0.0002 (2.87)
Example 384, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5328 (2.13); 8.0787 (1.28); 8.0580 (1.52); 7.8384 (1.28); 7.8190 (1.79); 7.7988 (1.19); 7.5405 (2.14); 7.5253 (0.63); 7.5209 (0.53); 7.5165 (0.93); 7.5132 (0.95); 7.5079 (0.57); 7.5038 (0.87); 7.4993 (0.64); 7.3901 (0.41); 7.3711 (2.32); 7.3656 (1.55); 7.3595 (3.13); 7.3570 (3.09); 7.1364 (1.83); 7.1186 (1.74); 5.3530 (6.22); 4.0613 (0.50); 4.0435 (1.53); 4.0257 (1.55); 4.0079 (0.51); 3.3952 (0.54); 3.3452 (30.65); 3.2949 (0.53); 3.0474 (16.00); 2.5596 (0.38); 2.5320 (0.53); 2.5273 (0.87); 2.5186 (8.94); 2.5142 (18.43); 2.5097 (24.98); 2.5052 (17.82); 2.5008 (8.22); 2.4593 (0.39); 2.4548 (0.33); 2.4071 (1.81); 2.3888 (3.41); 2.3702 (1.98); 2.3381 (10.37); 1.9963 (6.81); 1.5958 (0.46); 1.5776 (1.34); 1.5589 (1.85); 1.5405 (1.38); 1.5215 (0.57); 1.3308 (1.10); 1.3119 (1.73); 1.2931 (1.73); 1.2750 (1.05); 1.2569 (0.32); 1.1984 (1.83); 1.1806 (3.67); 1.1628 (1.79); 0.9054 (4.10); 0.8871 (8.36); 0.8768 (0.37); 0.8686 (3.44)
Example 385, Solvent: CDCl3, Spectrometer: 300,16 MHz
9.2433 (0.89); 8.5283 (0.54); 8.5013 (0.59); 7.7846 (1.15); 7.7590 (1.66); 7.7317 (1.19); 7.6522 (1.59); 7.6480 (2.15); 7.6425 (1.14); 7.6325 (0.78); 7.6254 (2.72); 7.6199 (2.23); 7.5104 (0.33); 7.4857 (1.22); 7.4771 (0.46); 7.4676 (0.95); 7.4626 (1.50); 7.4572 (0.85); 7.4521 (0.64); 7.4443 (2.50); 7.4397 (1.17); 7.4262 (1.22); 7.4244 (1.23); 7.4197 (2.46); 7.4025 (0.49); 7.3968 (0.87); 7.3907 (0.58); 7.2636 (2.74); 7.1610 (1.64); 7.1363 (1.53); 5.3624 (6.90); 3.3141 (2.09); 3.2896 (2.97); 3.2648 (2.24); 3.1101 (16.00); 1.7511 (0.39); 1.7274 (1.01); 1.7022 (1.79); 1.6935 (0.93); 1.6770 (2.45); 1.6520 (0.70); 1.4949 (0.98); 1.4698 (1.45); 1.4442 (1.46); 1.4203 (0.90); 0.9759 (3.50); 0.9516 (7.07); 0.9272 (2.94); -0.0002 (1.15)
Example 386, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7418 (1.97); 8.0578 (1.25); 8.0371 (1.50); 7.9533 (0.93); 7.8227 (1.27); 7.8033 (1.72); 7.7831 (1.15); 7.7071 (2.56); 7.7033 (1.22); 7.6943 (0.75); 7.6893 (3.36); 7.6856 (2.33); 7.5568 (0.49); 7.5446 (0.37); 7.5385 (1.60); 7.5329 (0.47); 7.5234 (0.83); 7.5201 (1.35); 7.5168 (0.68); 7.4857 (2.36); 7.4821 (0.99); 7.4700 (1.63); 7.4664 (3.04); 7.4527 (0.48); 7.4487 (1.21); 7.4457 (0.68); 7.4087 (1.51); 7.4052 (2.08); 7.3875 (2.96); 7.3314 (1.73); 7.3269 (0.57); 7.3132 (3.23); 7.2939 (1.65); 7.2470 (0.67); 7.2438 (1.17); 7.2406 (0.66); 7.2308 (0.50); 7.2256 (1.51); 7.2202 (0.37); 7.2106 (0.33); 7.2075 (0.53); 7.1365 (1.76); 7.1187 (1.70); 5.3438 (5.95); 3.8183 (0.56); 3.8019 (0.77); 3.7968 (0.75); 3.7803 (0.59); 3.3264 (38.18); 3.0233 (16.00); 2.8902 (7.74); 2.7317 (6.02); 2.7308 (6.16); 2.5248 (0.79); 2.5115 (14.43); 2.5070 (28.64); 2.5024 (37.59); 2.4977 (27.04); 2.4932 (12.69); 2.0947 (0.34); 2.0765 (0.43); 2.0730 (0.39); 2.0612 (0.49); 2.0548 (0.43); 2.0429 (0.48); 2.0395 (0.48); 2.0212 (0.39); 1.7198 (0.40); 1.7031 (0.61); 1.6854 (0.73); 1.6680 (0.53); 1.6514 (0.36); 0.8610 (2.77); 0.8427 (6.03); 0.8244 (2.55); 0.0079 (0.53); -0.0002 (15.46); -0.0086 (0.44)
Example 387, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8767 (0.82); 8.0246 (0.58); 8.0043 (0.73); 7.8474 (0.47); 7.8280 (0.64); 7.8078 (0.40); 7.5412 (0.75); 7.5163 (0.33); 7.5132 (0.33); 7.3712 (0.86); 7.3598 (1.08); 7.3575 (1.05); 7.1489 (0.66); 7.1306 (0.62); 5.7689 (2.10); 5.3786 (2.23); 3.3443 (11.96); 3.0684 (5.46); 2.5321 (0.36); 2.5186 (5.00); 2.5143 (10.13); 2.5098 (13.61); 2.5053 (9.71); 2.5010 (4.51); 2.3374 (3.68); 1.2399 (16.00)

Example 388, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5007 (1.97); 8.0764 (1.46); 8.0557 (1.74); 7.9532 (0.33); 7.8306 (1.27); 7.8113 (1.80); 7.7910 (1.17); 7.7230 (2.63); 7.7193 (1.31); 7.7103 (0.84); 7.7053 (3.41); 7.7016 (2.43); 7.5650 (0.49); 7.5532 (0.36); 7.5468 (1.63); 7.5410 (0.50); 7.5318 (0.90); 7.5285 (1.43); 7.5251 (0.74); 7.4978 (2.44); 7.4945 (1.10); 7.4824 (1.70); 7.4787 (3.12); 7.4650 (0.51); 7.4610 (1.24); 7.4578 (0.73); 7.1384 (1.81); 7.1201 (1.76); 5.3573 (6.42); 3.3418 (105.76); 3.0589 (16.00); 2.9544 (0.50); 2.9354 (0.75); 2.9162 (0.61); 2.8913 (2.56); 2.7326 (2.09); 2.7315 (2.00); 2.6341 (0.39); 2.5260 (0.69); 2.5126 (12.21); 2.5082 (23.81); 2.5036 (31.00); 2.4991 (22.64); 2.4946 (10.96); 1.8666 (0.36); 1.8464 (0.93); 1.8260 (1.13); 1.8167 (0.76); 1.8120 (0.85); 1.8005 (0.55); 1.7931 (0.35); 1.7859 (0.42); 1.7809 (0.42); 1.7151 (0.80); 1.7092 (0.57); 1.6964 (1.13); 1.6900 (1.00); 1.6813 (1.32); 1.6776 (1.38); 1.6644 (1.97); 1.6524 (1.31); 1.6464 (1.13); 1.6329 (0.81); 1.6272 (0.68); 1.6138 (0.43); 1.6069 (0.55); 1.5839 (0.50); 1.5754 (0.57); 1.5717 (0.55); 1.5470 (1.08); 1.5376 (1.16); 1.5304 (1.34); 1.5186 (1.09); 1.5118 (0.88); 1.4909 (0.36)
Example 389, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5069 (1.95); 8.0631 (1.20); 8.0424 (1.43); 7.8301 (1.26); 7.8108 (1.73); 7.7905 (1.14); 7.7318 (0.34); 7.7262 (2.03); 7.7237 (2.61); 7.7199 (1.27); 7.7110 (0.83); 7.7059 (3.46); 7.7022 (2.40); 7.5643 (0.50); 7.5611 (0.32); 7.5524 (0.38); 7.5460 (1.67); 7.5403 (0.50); 7.5311 (0.90); 7.5278 (1.45); 7.5243 (0.73); 7.4967 (2.44); 7.4933 (1.05); 7.4813 (1.69); 7.4776 (3.13); 7.4640 (0.49); 7.4599 (1.24); 7.4567 (0.69); 7.1397 (1.75); 7.1213 (1.70); 5.3531 (6.21); 3.3287 (43.18); 3.0720 (0.45); 3.0539 (16.00); 2.8908 (2.58); 2.7322 (2.01); 2.7312 (2.01); 2.5253 (0.61); 2.5204 (0.97); 2.5119 (10.42); 2.5074 (20.51); 2.5028 (26.96); 2.4982 (19.56); 2.4937 (9.34); 2.3033 (1.58); 2.2849 (2.51); 2.2656 (1.81); 2.2574 (0.75); 2.2377 (0.96); 2.2183 (0.80); 2.1989 (0.38); 2.0272 (0.36); 2.0171 (0.40); 2.0086 (0.62); 2.0066 (0.63); 2.0027 (0.64); 1.9984 (0.94); 1.9880 (0.83); 1.9843 (0.77); 1.9778 (0.93); 1.9744 (0.77); 1.9695 (0.66); 1.9660 (0.70); 1.9607 (0.43); 1.9550 (0.34); 1.9491 (0.43); 1.8059 (0.48); 1.8029 (0.64); 1.8012 (0.64); 1.7871 (0.58); 1.7820 (1.15); 1.7676 (0.89); 1.7584 (0.90); 1.7470 (0.55); 1.7403 (0.55); 1.7364 (0.35); 1.6892 (0.93); 1.6702 (2.13); 1.6514 (2.03); 1.6328 (0.83); 1.6254 (0.43); 1.6188 (0.33); 1.6034 (1.04); 1.5967 (0.79); 1.5799 (1.13); 1.5744 (1.16); 1.5587 (0.66); 1.5535 (0.90); 0.8622 (0.71); -0.0002 (8.05)
Example 390, Solvent: DMSO, Spectrometer: 399,95 MHz
10.0026 (2.06); 8.0726 (1.55); 8.0521 (1.93); 7.8842 (1.32); 7.8649 (1.90); 7.8448 (1.16); 7.7254 (2.72); 7.7127 (0.89); 7.7076 (3.54); 7.7039 (2.49); 7.5647 (0.51); 7.5615 (0.32); 7.5527 (0.40); 7.5464 (1.71); 7.5408 (0.51); 7.5314 (0.96); 7.5281 (1.45); 7.5247 (0.75); 7.4964 (2.47); 7.4808 (1.78); 7.4771 (3.21); 7.4635 (0.52); 7.4594 (1.29); 7.4563 (0.77); 7.1984 (1.85); 7.1801 (1.80); 5.3767 (6.51); 4.1631 (0.45); 4.1464 (1.65); 4.1298 (1.67); 4.1132 (0.47); 3.3329 (83.44); 3.3215 (1.62); 3.3124 (1.81); 3.2953 (1.74); 3.2809 (1.67); 3.2635 (1.68); 3.2554 (0.80); 3.2376 (0.81); 3.0797 (16.00); 3.0659 (0.37); 2.8913 (0.54); 2.7325 (0.44); 2.5256 (0.68); 2.5123 (11.39); 2.5079 (22.13); 2.5033 (28.90); 2.4987 (21.01); 2.4942 (10.08); 1.3121 (6.45); 1.2955 (6.33); 1.0487 (0.43); 1.0463 (0.44); 1.0409 (0.41); 1.0370 (0.35); 1.0289 (0.75); 1.0207 (0.35); 1.0167 (0.45); 1.0116 (0.44); 1.0090 (0.44); 0.4849 (0.73); 0.4779 (1.04); 0.4735 (1.56); 0.4706 (1.10); 0.4639 (1.32); 0.4594 (1.00); 0.4575 (1.01); 0.4533 (1.43); 0.4475 (0.82); 0.4433 (0.78); 0.2019 (0.81); 0.1930 (1.81); 0.1895 (2.21); 0.1808 (2.16); 0.1776 (1.65); 0.1682 (0.67); -0.0002 (4.96)
Example 391, Solvent: DMSO, Spectrometer: 400,13 MHz
11.0276 (2.51); 8.1691 (1.68); 8.1490 (2.03); 7.9445 (1.33); 7.9250 (1.90); 7.9049 (1.26); 7.8944 (1.33); 7.8919 (1.10); 7.8750 (1.67); 7.8724 (1.49); 7.8636 (1.00); 7.8600 (0.66); 7.8448 (0.82); 7.8387 (0.91); 7.8346 (0.67); 7.6024 (0.58); 7.5877 (0.69); 7.5821 (1.09); 7.5675 (1.27); 7.5618 (1.30); 7.5539 (2.26); 7.5489 (1.48); 7.5387 (0.67); 7.5339 (0.60); 7.5303 (0.95); 7.5268 (0.99); 7.5174 (0.93); 7.5129 (0.69); 7.4866 (0.58); 7.4845 (0.63); 7.4801 (0.57); 7.4781 (0.56); 7.4631 (0.96); 7.4580 (0.85); 7.4442 (0.43); 7.4419 (0.44); 7.4376 (0.40); 7.4355 (0.37); 7.3955 (0.33); 7.3764 (2.22); 7.3703 (1.53); 7.3644 (3.16); 7.3619 (3.11); 7.2441 (1.85); 7.2261 (1.78); 5.4218 (6.20); 3.3943 (1.10); 3.3445 (54.95); 3.2947 (0.83); 3.0750 (16.00); 2.6789 (0.33); 2.5688 (0.39); 2.5643 (0.77); 2.5598 (1.05); 2.5553 (0.76); 2.5508 (0.39); 2.5323 (1.05); 2.5188 (19.92); 2.5144 (40.84); 2.5099 (55.29); 2.5055 (39.65); 2.5011 (18.54); 2.4693 (0.34); 2.4648 (0.57); 2.4602 (0.76); 2.4556 (0.55); 2.3407 (10.44); 1.9970 (1.24); 1.2523 (0.92); 1.1992 (0.36); 1.1814 (0.67); 1.1636 (0.32); 0.8812 (0.42); 0.8645 (1.36); 0.8469 (0.52)
Example 392, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5733 (1.72); 7.6261 (3.54); 7.6055 (4.12); 7.3568 (4.66); 7.3091 (3.37); 7.2889 (2.96); 7.0152 (1.30); 6.9964 (1.75); 6.9942 (1.67); 6.9157 (0.67); 6.9082 (0.88); 6.9009 (0.96); 6.8934 (1.47); 6.8892 (0.62); 6.8812 (0.75); 6.8742 (1.83); 6.8629 (4.80); 6.8586 (3.14); 6.8477 (1.14); 6.8438 (0.93); 5.3230 (6.03); 5.1546 (1.11); 5.1461 (2.10); 5.1364 (1.16); 4.4366 (2.33); 4.4323 (2.52); 4.4261 (2.87); 4.0421 (0.58); 4.0242 (0.58); 3.3970 (0.66); 3.3471 (67.02); 3.2973 (0.68); 2.9986 (16.00); 2.5578 (0.39); 2.5301 (0.75); 2.5165 (14.60); 2.5123 (29.33); 2.5078 (39.11); 2.5034 (28.35); 2.4994 (13.71); 2.4626 (0.40); 2.4580 (0.46); 2.4536 (0.35); 2.3547 (10.22); 2.3350 (0.40); 1.9948 (2.54); 1.1969 (0.68); 1.1791 (1.35); 1.1613 (0.67)
Example 393, Solvent: DMSO, Spectrometer: 399,95 MHz
12.5563 (0.44); 8.1105 (0.44); 8.1034 (3.66); 8.0984 (1.15); 8.0861 (1.23); 8.0811 (3.92); 8.0737 (0.41); 7.9532 (0.76); 7.9040 (1.39); 7.8988 (0.43); 7.8868 (0.45); 7.8817 (1.47); 7.7487 (2.00); 7.7461 (2.66); 7.7422 (1.30); 7.7337 (0.82); 7.7285 (3.41); 7.7247 (2.38); 7.5681 (0.47); 7.5568 (0.34); 7.5498 (1.63); 7.5438 (0.50); 7.5351 (0.94); 7.5317 (1.51); 7.5282 (0.77); 7.5076 (2.49); 7.5042 (1.10); 7.4926 (1.61); 7.4886 (3.05); 7.4753 (0.51); 7.4711 (1.23); 7.4675 (0.73); 7.3845 (0.89); 7.3625 (0.94); 7.3443 (4.57); 7.0898 (0.44); 7.0825 (3.84); 7.0775 (1.19); 7.0650 (1.17); 7.0601 (3.68); 7.0526 (0.46); 7.0294 (1.51); 7.0243 (0.44); 7.0122 (0.43); 7.0071 (1.35); 6.9765 (0.91); 6.9546 (0.80); 5.3767 (5.61); 3.8453 (16.00); 3.8243 (6.22); 3.7997 (0.36); 3.7896 (3.84); 3.3424 (91.62); 3.0171 (15.48); 2.9458 (4.16); 2.8912 (6.02); 2.7850 (0.66); 2.7325 (4.75); 2.5262 (0.75); 2.5128 (14.48); 2.5084 (28.24); 2.5038 (36.64); 2.4992 (26.44); 2.4947 (12.48); -0.0002 (3.63)
Example 394, Solvent: DMSO, Spectrometer: 399,95 MHz
11.7925 (1.40); 7.9532 (0.38); 7.7322 (2.03); 7.7294 (2.72); 7.7254 (1.35); 7.7170 (0.97); 7.7118 (3.54); 7.7080 (2.39); 7.5623 (0.53); 7.5590 (0.35); 7.5509 (0.41); 7.5440 (1.74); 7.5381 (0.55); 7.5293 (1.01); 7.5259 (1.58); 7.5224 (0.80); 7.4997 (2.63); 7.4963 (1.17); 7.4847 (1.76); 7.4807 (3.26); 7.4673 (0.54); 7.4632 (1.31); 7.4597 (0.76); 7.2557 (3.92); 5.8452 (0.62); 5.8362 (0.33); 5.8193 (0.95); 5.8022 (0.98); 5.7931 (0.36); 5.7853 (0.36); 5.7764 (0.75); 5.7597 (0.35); 5.2821 (5.80); 5.1694 (0.50); 5.1655 (1.19); 5.1608 (1.28); 5.1569 (0.54); 5.1263 (0.45);

5.1224 (1.07); 5.1177 (1.17); 5.1139 (0.49); 5.0947 (0.62); 5.0919 (1.22); 5.0892 (0.99); 5.0870 (1.07); 5.0841 (0.52); 5.0691 (0.56); 5.0662 (1.11); 5.0637 (0.89); 5.0613 (0.99); 5.0585 (0.46); 4.2279 (0.54); 4.2217 (2.07); 4.2049 (4.40); 4.1882 (2.08); 3.3339 (96.70); 3.0302 (16.00); 2.9895 (0.64); 2.8907 (3.07); 2.7322 (2.36); 2.7311 (2.43); 2.5253 (0.63); 2.5205 (1.04); 2.5120 (11.75); 2.5075 (23.44); 2.5029 (30.95); 2.4982 (22.50); 2.4937 (10.74); 2.4225 (0.71); 2.4194 (0.50); 2.4090 (1.29); 2.4058 (2.07); 2.4026 (1.35); 2.3923 (1.29); 2.3890 (2.03); 2.3859 (1.30); 2.3754 (0.48); 2.3723 (0.69); 1.2348 (0.32); 1.1206 (0.53); 1.1054 (0.52); 0.9300 (1.12); 0.0080 (0.33); -0.0002 (9.72)
Example 395, Solvent: DMSO, Spectrometer: 399,95 MHz
10.1127 (2.58); 7.9532 (0.35); 7.8282 (0.49); 7.8071 (2.01); 7.7951 (2.36); 7.7914 (3.78); 7.7743 (0.55); 7.7257 (1.90); 7.7230 (2.58); 7.7191 (1.22); 7.7105 (0.77); 7.7053 (3.46); 7.7015 (2.34); 7.5623 (0.49); 7.5504 (0.35); 7.5439 (1.62); 7.5382 (0.47); 7.5291 (0.86); 7.5257 (1.44); 7.5222 (0.71); 7.4955 (2.38); 7.4921 (0.99); 7.4802 (1.59); 7.4764 (3.03); 7.4629 (0.46); 7.4588 (1.22); 7.4555 (0.66); 7.1012 (1.29); 7.0958 (1.29); 7.0857 (1.16); 7.0804 (1.21); 5.3305 (6.04); 4.8838 (0.40); 4.8703 (0.58); 4.8681 (0.58); 4.8650 (0.52); 4.8547 (0.58); 4.8513 (0.60); 4.8357 (0.41); 3.3290 (56.41); 3.0698 (16.00); 2.8906 (2.95); 2.7977 (1.23); 2.7910 (2.92); 2.7844 (1.24); 2.7321 (2.26); 2.7309 (2.29); 2.5250 (0.63); 2.5203 (1.02); 2.5117 (11.93); 2.5071 (23.85); 2.5025 (31.49); 2.4979 (22.71); 2.4933 (10.66); 2.2839 (0.80); 2.2773 (0.87); 2.2650 (1.70); 2.2584 (1.61); 2.2472 (1.00); 2.2406 (0.92); 1.7763 (0.54); 1.7588 (1.05); 1.7489 (0.36); 1.7405 (1.33); 1.7350 (0.84); 1.7218 (1.11); 1.7157 (0.41); 1.7017 (0.47); 1.2559 (6.32); 1.2403 (6.30); -0.0002 (1.30)
Example 396, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8305 (1.11); 7.7772 (0.77); 7.7613 (1.78); 7.7574 (1.15); 7.6655 (1.58); 7.6603 (0.50); 7.6482 (0.52); 7.6430 (1.74); 7.0663 (0.55); 7.0619 (0.57); 7.0502 (0.54); 7.0455 (0.68); 7.0374 (1.69); 7.0322 (0.52); 7.0200 (0.49); 7.0149 (1.57); 5.2763 (2.54); 3.8139 (6.53); 3.3288 (12.65); 3.0511 (6.27); 2.5186 (2.23); 2.5142 (4.61); 2.5097 (6.28); 2.5052 (4.47); 2.5008 (2.09); 1.4705 (16.00)
Example 397, Solvent: DMSO, Spectrometer: 399,95 MHz
9.0453 (2.48); 8.1017 (1.76); 8.0810 (2.02); 7.8722 (1.32); 7.8528 (1.87); 7.8327 (1.26); 7.7023 (2.63); 7.6985 (1.27); 7.6895 (0.86); 7.6845 (3.61); 7.6807 (2.77); 7.6620 (0.49); 7.6582 (0.34); 7.5610 (0.55); 7.5577 (0.38); 7.5489 (0.40); 7.5427 (1.73); 7.5373 (0.65); 7.5276 (0.91); 7.5243 (1.52); 7.5209 (0.89); 7.4905 (2.49); 7.4868 (1.21); 7.4808 (0.42); 7.4749 (1.78); 7.4713 (3.26); 7.4576 (0.54); 7.4535 (1.29); 7.4505 (0.76); 7.4086 (0.42); 7.3884 (0.56); 7.2850 (2.35); 7.2654 (3.36); 7.2387 (0.35); 7.1763 (4.31); 7.1700 (2.44); 7.1562 (3.05); 7.1507 (2.41); 6.8849 (0.45); 6.8674 (1.97); 6.8497 (1.99); 6.8320 (0.46); 5.3154 (6.26); 5.2630 (0.88); 3.3290 (62.14); 2.9998 (16.00); 2.9549 (2.24); 2.8905 (2.33); 2.7319 (1.82); 2.7313 (1.81); 2.5251 (0.74); 2.5201 (1.19); 2.5117 (13.15); 2.5072 (25.84); 2.5026 (33.70); 2.4980 (24.25); 2.4935 (11.40); 2.3602 (9.97); 2.3417 (1.53); 1.6974 (6.56); 1.6797 (6.47); 1.5052 (0.40); 1.4977 (0.43); 1.1423 (0.43); 1.1347 (0.41); 0.0080 (0.34); -0.0002 (9.54)
Example 398, Solvent: DMSO, Spectrometer: 399,95 MHz
10.7213 (2.08); 8.0266 (1.24); 8.0060 (1.60); 7.9532 (0.59); 7.8650 (1.33); 7.8457 (1.81); 7.8254 (1.15); 7.7276 (2.02); 7.7250 (2.61); 7.7212 (1.27); 7.7123 (0.83); 7.7072 (3.48); 7.7035 (2.39); 7.5673 (0.50); 7.5553 (0.38); 7.5490 (1.68); 7.5434 (0.49); 7.5340 (0.89); 7.5307 (1.43); 7.5273 (0.72); 7.4981 (2.39); 7.4947 (1.01); 7.4827 (1.73); 7.4790 (3.12); 7.4653 (0.51); 7.4613 (1.27); 7.4581 (0.70); 7.1950 (1.77); 7.1774 (1.72); 7.1591 (1.06); 7.1409 (1.15); 7.1175 (0.50); 7.1143 (0.46); 7.0983 (1.07); 7.0783 (0.68); 7.0752 (0.59); 6.8510 (0.93); 6.8327 (1.64); 6.8167 (2.06); 6.7977 (1.42); 5.3797 (5.98); 5.0599 (1.08); 5.0435 (1.08); 3.3321 (65.01); 3.0608 (0.76); 3.0520 (16.00); 2.8904 (4.79); 2.7320 (3.80); 2.7309 (3.73); 2.5252 (0.63); 2.5118 (12.29); 2.5073 (24.36); 2.5027 (31.90); 2.4981 (23.00); 2.4936 (10.86); 2.2186 (9.97); 1.5536 (5.61); 1.5372 (5.60); -0.0002 (4.58)
Example 399, Solvent: DMSO, Spectrometer: 400,13 MHz
11.0289 (2.45); 8.1728 (1.63); 8.1526 (1.96); 7.9463 (1.26); 7.9268 (1.80); 7.9067 (1.19); 7.8936 (1.28); 7.8910 (1.07); 7.8741 (1.59); 7.8716 (1.41); 7.8624 (0.97); 7.8588 (0.65); 7.8435 (0.78); 7.8376 (0.89); 7.8335 (0.66); 7.6017 (0.52); 7.5871 (0.65); 7.5815 (1.03); 7.5669 (1.09); 7.5620 (0.77); 7.5472 (0.68); 7.4857 (0.57); 7.4837 (0.62); 7.4792 (0.56); 7.4773 (0.55); 7.4623 (0.95); 7.4573 (0.88); 7.4432 (0.43); 7.4411 (0.46); 7.4368 (0.43); 7.4347 (0.41); 7.4278 (1.03); 7.4079 (2.19); 7.3878 (1.58); 7.2994 (1.45); 7.2982 (1.46); 7.2959 (1.30); 7.2825 (0.77); 7.2787 (1.19); 7.2765 (0.99); 7.2595 (1.82); 7.2541 (3.75); 7.2500 (1.65); 7.2363 (1.73); 7.1494 (1.04); 7.1476 (1.12); 7.1431 (0.98); 7.1412 (0.97); 7.1288 (0.92); 7.1269 (0.92); 7.1225 (0.88); 7.1206 (0.79); 5.4295 (5.89); 3.7900 (16.00); 3.3955 (0.36); 3.3456 (29.34); 3.0728 (14.83); 2.5598 (0.39); 2.5323 (0.66); 2.5187 (11.27); 2.5144 (22.95); 2.5099 (30.99); 2.5054 (22.33); 2.5011 (10.50); 1.9966 (0.95); 1.2494 (0.59); 1.1809 (0.52); 0.8632 (0.82); 0.8455 (0.32)
Example 400, Solvent: DMSO, Spectrometer: 399,95 MHz
10.2652 (2.65); 7.9532 (0.51); 7.8332 (0.58); 7.8167 (0.44); 7.8122 (2.01); 7.7962 (4.69); 7.7920 (2.88); 7.7755 (0.67); 7.7227 (2.71); 7.7189 (1.30); 7.7100 (0.83); 7.7050 (3.50); 7.7012 (2.41); 7.5618 (0.49); 7.5499 (0.36); 7.5434 (1.68); 7.5377 (0.49); 7.5285 (0.90); 7.5252 (1.45); 7.5218 (0.74); 7.4951 (2.48); 7.4918 (1.06); 7.4797 (1.68); 7.4760 (3.16); 7.4624 (0.49); 7.4583 (1.24); 7.4551 (0.69); 7.1102 (1.40); 7.1058 (1.42); 7.0940 (1.30); 7.0896 (1.32); 5.3309 (6.64); 4.2254 (2.02); 4.2167 (1.77); 4.2138 (2.33); 4.2101 (1.66); 4.2018 (2.14); 3.6070 (2.19); 3.5988 (1.70); 3.5950 (2.32); 3.5921 (1.75); 3.5834 (2.00); 3.4983 (1.51); 3.4808 (4.76); 3.4633 (4.82); 3.4458 (1.57); 3.3406 (100.43); 3.0718 (16.00); 2.8910 (4.19); 2.7316 (3.26); 2.5259 (0.50); 2.5126 (9.41); 2.5081 (18.75); 2.5035 (24.77); 2.4989 (18.10); 2.4944 (8.73); 1.1268 (4.89); 1.1093 (9.87); 1.0918 (4.78); -0.0002 (0.94)
Example 401, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6923 (2.12); 8.1675 (1.56); 8.1475 (1.87); 7.9531 (0.74); 7.9087 (1.25); 7.8894 (1.70); 7.8692 (1.19); 7.8525 (1.75); 7.8486 (1.79); 7.7784 (1.00); 7.7738 (0.87); 7.7589 (1.12); 7.7541 (0.99); 7.7393 (1.85); 7.7368 (2.47); 7.7328 (1.18); 7.7242 (0.71); 7.7190 (3.30); 7.7152 (2.27); 7.5668 (0.47); 7.5550 (0.33); 7.5484 (1.60); 7.5427 (0.45); 7.5336 (0.83); 7.5302 (1.39); 7.5268 (0.68); 7.5056 (0.43); 7.5004 (2.31); 7.4970 (0.96); 7.4851 (1.51); 7.4813 (2.96); 7.4678 (0.44); 7.4636 (1.20); 7.4603 (0.65); 7.2728 (1.66); 7.2529 (1.47); 7.2122 (1.71); 7.1945 (1.65); 5.4134 (5.91); 3.3294 (54.85); 3.0831 (16.00); 2.8904 (6.35); 2.7318 (4.93); 2.7309 (4.81); 2.5249 (0.62); 2.5201 (0.96); 2.5115 (12.18); 2.5070 (24.48); 2.5023 (32.36); 2.4977 (23.26); 2.4932 (10.91); 2.2935 (12.89); -0.0002 (1.32)

Example 402, Solvent: DMSO, Spectrometer: 399,95 MHz
10.6837 (2.17); 8.0205 (0.72); 8.0000 (0.94); 7.9529 (0.74); 7.8817 (1.31); 7.8624 (1.78); 7.8422 (1.10); 7.7283 (2.59); 7.7244 (1.27); 7.7156 (0.78); 7.7105 (3.40); 7.7068 (2.38); 7.5683 (0.48); 7.5564 (0.36); 7.5500 (1.61); 7.5443 (0.48); 7.5350 (0.87); 7.5317 (1.42); 7.5283 (0.73); 7.5005 (2.38); 7.4971 (1.03); 7.4851 (1.62); 7.4814 (3.05); 7.4678 (0.49); 7.4637 (1.22); 7.4605 (0.70); 7.3639 (0.36); 7.3549 (4.10); 7.3493 (1.24); 7.3380 (1.33); 7.3323 (4.70); 7.3234 (0.42); 7.2045 (1.75); 7.1867 (1.67); 7.0019 (0.42); 6.9930 (4.43); 6.9873 (1.29); 6.9760 (1.23); 6.9704 (3.94); 6.9614 (0.33); 5.3827 (6.08); 4.8101 (5.71); 3.3411 (108.47); 3.3105 (0.34); 3.0665 (16.00); 2.8907 (5.99); 2.7322 (4.69); 2.7312 (4.75); 2.5258 (0.62); 2.5210 (1.00); 2.5124 (12.35); 2.5079 (24.66); 2.5033 (32.54); 2.4987 (23.64); 2.4942 (11.28); -0.0002 (0.78)
Example 403, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1396 (0.34); 10.6020 (5.21); 8.0801 (2.66); 8.0593 (3.18); 7.8492 (2.85); 7.8298 (4.09); 7.8096 (2.63); 7.7252 (6.00); 7.7123 (1.93); 7.7074 (7.71); 7.7037 (5.56); 7.5767 (1.06); 7.5736 (0.73); 7.5649 (0.87); 7.5583 (3.73); 7.5527 (1.20); 7.5435 (2.08); 7.5402 (3.28); 7.5369 (1.73); 7.5109 (5.58); 7.4955 (3.81); 7.4917 (7.02); 7.4782 (1.16); 7.4741 (2.74); 7.4709 (1.62); 7.3007 (2.23); 7.2969 (1.10); 7.2818 (6.98); 7.2700 (2.13); 7.2645 (9.09); 7.2571 (7.02); 7.2528 (9.59); 7.2367 (4.30); 7.2202 (0.72); 7.1994 (1.65); 7.1950 (2.14); 7.1902 (1.44); 7.1779 (3.18); 7.1718 (1.01); 7.1655 (0.85); 7.1607 (1.19); 7.1566 (0.70); 7.1426 (4.24); 7.1247 (4.03); 5.3626 (14.12); 4.0441 (0.58); 4.0264 (0.60); 3.4953 (1.84); 3.4772 (6.19); 3.4590 (6.30); 3.4409 (1.93); 3.3931 (0.43); 3.3431 (44.47); 3.2933 (0.42); 2.9174 (2.61); 2.8991 (5.31); 2.8790 (4.02); 2.8387 (0.55); 2.8198 (1.09); 2.8007 (0.68); 2.7299 (4.19); 2.7096 (5.67); 2.6912 (2.75); 2.6835 (0.93); 2.6786 (0.97); 2.6742 (0.70); 2.5639 (1.08); 2.5597 (1.42); 2.5520 (1.40); 2.5321 (4.02); 2.5184 (48.43); 2.5141 (98.74); 2.5096 (132.35); 2.5051 (94.84); 2.5008 (44.47); 2.4641 (1.30); 2.4597 (1.50); 2.4554 (1.06); 2.3408 (0.60); 2.3365 (0.82); 2.3319 (0.59); 1.9969 (2.54); 1.3714 (0.45); 1.2858 (0.43); 1.2512 (1.99); 1.1990 (0.75); 1.1812 (1.36); 1.1634 (0.67); 1.0448 (7.07); 1.0363 (1.50); 1.0268 (16.00); 1.0085 (6.83); 0.8816 (0.93); 0.8648 (2.88); 0.8472 (1.13)
Example 404, Solvent: DMSO, Spectrometer: 399,95 MHz
10.5534 (2.01); 8.0729 (1.22); 8.0522 (1.45); 7.8401 (1.30); 7.8208 (1.76); 7.8006 (1.19); 7.7322 (0.35); 7.7264 (2.00); 7.7240 (2.61); 7.7201 (1.31); 7.7113 (0.84); 7.7062 (3.52); 7.7024 (2.38); 7.5648 (0.50); 7.5616 (0.32); 7.5529 (0.39); 7.5465 (1.65); 7.5408 (0.49); 7.5316 (0.88); 7.5283 (1.43); 7.5249 (0.73); 7.4974 (2.45); 7.4940 (1.05); 7.4820 (1.67); 7.4782 (3.09); 7.4647 (0.48); 7.4606 (1.22); 7.4573 (0.68); 7.1481 (1.77); 7.1305 (1.70); 5.3570 (6.23); 3.6704 (1.67); 3.6549 (4.26); 3.6391 (2.08); 3.3331 (49.99); 3.0551 (16.00); 2.8909 (0.91); 2.7321 (0.72); 2.5253 (0.68); 2.5203 (1.12); 2.5120 (11.22); 2.5075 (22.00); 2.5029 (28.85); 2.4983 (20.85); 2.4937 (9.84); 2.4414 (1.44); 2.4237 (2.88); 2.4066 (1.29); 1.7634 (0.38); 1.7563 (0.57); 1.7500 (0.59); 1.7402 (1.08); 1.7339 (1.04); 1.7256 (1.73); 1.7232 (1.86); 1.7171 (1.69); 1.7098 (1.67); 1.7064 (1.63); 1.6982 (0.90); 1.6920 (0.97); 1.6895 (0.96); 1.6802 (0.51); 1.6756 (0.44); 1.6695 (0.40); 0.8758 (0.41); -0.0002 (5.70)
Example 405, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3160 (6.78); 7.8533 (1.75); 7.8325 (4.32); 7.8148 (5.04); 7.8014 (6.46); 7.7829 (2.51); 7.6768 (6.98); 7.6588 (8.41); 7.6555 (6.62); 7.5450 (1.24); 7.5266 (4.04); 7.5086 (3.65); 7.4800 (6.49); 7.4607 (7.93); 7.4432 (3.06); 7.1375 (4.04); 7.1213 (3.91); 5.7628 (0.84); 5.7146 (0.63); 5.7002 (1.42); 5.6866 (1.08); 5.6732 (1.75); 5.6586 (1.71); 5.6455 (1.24); 5.6316 (1.73); 5.6172 (0.83); 5.3241 (16.00); 4.9940 (7.64); 4.9675 (3.49); 4.9519 (3.13); 4.1928 (5.00); 4.1762 (10.71); 4.1591 (9.33); 4.1408 (6.81); 4.0420 (0.33); 3.3307 (39.53); 3.3070 (2.64); 2.9096 (3.20); 2.9031 (6.76); 2.8966 (3.51); 2.6759 (0.36); 2.5735 (3.32); 2.5670 (3.62); 2.5569 (6.81); 2.5503 (6.79); 2.5403 (4.17); 2.5337 (4.19); 2.5107 (47.57); 2.5065 (62.01); 2.5024 (47.29); 2.3335 (0.43); 2.0786 (0.64); 1.9935 (1.09); 1.2831 (0.70); 1.2497 (2.51); 1.1964 (0.38); 1.1787 (0.61); 1.1609 (0.33); 0.8785 (1.09); 0.8709 (0.93); 0.8620 (2.78); 0.8444 (1.25)
Example 406, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2539 (0.81); 7.8730 (0.64); 7.8671 (0.67); 7.8597 (1.50); 7.6428 (0.64); 7.6402 (0.60); 7.5831 (0.32); 7.1711 (0.34); 7.1636 (0.34); 7.1503 (0.33); 5.8222 (0.93); 5.4111 (1.74); 4.1580 (0.52); 4.1413 (1.13); 4.1245 (0.53); 3.4038 (16.00); 3.1203 (4.23); 2.5728 (2.56); 2.5685 (5.38); 2.5640 (7.36); 2.5595 (5.31); 2.5552 (2.49); 1.6679 (0.39); 1.3915 (0.48); 1.3839 (0.98); 1.3749 (0.74); 1.3659 (0.65); 0.9568 (0.49); 0.9394 (1.34); 0.9216 (0.41)
Example 407, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8766 (0.83); 8.0274 (0.58); 8.0071 (0.73); 7.8498 (0.46); 7.8305 (0.64); 7.8103 (0.40); 7.4234 (0.37); 7.4035 (0.80); 7.3834 (0.57); 7.2852 (0.53); 7.2830 (0.47); 7.2657 (0.43); 7.2635 (0.35); 7.2446 (0.57); 7.2388 (0.73); 7.2346 (0.51); 7.1584 (0.67); 7.1440 (0.55); 7.1401 (0.99); 7.1257 (0.35); 7.1239 (0.34); 7.1194 (0.33); 5.3862 (2.20); 3.7878 (5.76); 3.3441 (14.78); 3.0656 (5.35); 2.5319 (0.41); 2.5186 (5.93); 2.5143 (11.80); 2.5099 (15.73); 2.5054 (11.28); 2.5011 (5.31); 1.2390 (16.00)
Example 410, Solvent: DMSO, Spectrometer: 400,13 MHz
7.7340 (3.19); 7.7162 (3.95); 7.7125 (2.78); 7.5658 (0.63); 7.5543 (0.55); 7.5475 (2.12); 7.5416 (0.66); 7.5327 (1.26); 7.5293 (1.89); 7.5259 (0.95); 7.5026 (3.16); 7.4874 (2.23); 7.4836 (3.92); 7.4701 (0.67); 7.4660 (1.58); 7.4626 (0.88); 7.3214 (0.66); 5.7573 (1.04); 5.3255 (5.92); 4.4343 (0.84); 3.4826 (0.32); 3.4596 (0.70); 3.4511 (0.36); 3.4434 (0.38); 3.4089 (16.00); 3.3931 (2.39); 3.3590 (1431.96); 3.3092 (15.32); 3.2880 (0.55); 3.2766 (0.48); 3.2700 (0.33); 3.2601 (0.65); 3.0287 (15.76); 2.6776 (0.63); 2.6730 (0.82); 2.6684 (0.60); 2.5583 (1.05); 2.5537 (1.42); 2.5494 (1.07); 2.5262 (2.40); 2.5128 (52.34); 2.5084 (105.57); 2.5039 (140.95); 2.4995 (100.24); 2.4951 (46.94); 2.4587 (1.33); 2.4540 (1.62); 2.4496 (1.24); 2.3351 (0.67); 2.3306 (0.88); 2.3262 (0.65); 1.6967 (0.98); 1.4294 (0.74); 1.4123 (1.33); 1.3936 (1.32); 1.3749 (0.77); 1.2340 (0.36); 0.9333 (4.56); 0.9150 (9.21); 0.8964 (3.99); -0.0002 (2.70)
Example 416, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6661 (0.70); 7.6572 (0.72); 7.6498 (1.01); 7.6463 (0.99); 7.6407 (1.73); 7.6269 (1.33); 7.6212 (1.32); 7.6142 (1.04); 7.6031 (0.75); 7.5947 (0.69); 7.3986 (0.81); 7.3919 (3.33); 7.3785 (2.97); 7.3706 (8.67); 7.3610 (6.61); 7.3532 (7.71); 7.3396 (0.62); 6.4579 (4.46); 6.4401 (4.29); 6.3782 (4.59); 6.3578 (4.47); 6.0313 (0.38); 5.9906 (7.71); 5.7606 (0.92); 5.2246 (0.60); 5.1700 (16.00); 4.0378 (0.38); 4.0200 (0.39); 3.4003 (0.38); 3.3850 (0.48); 3.3506 (37.42); 3.3353 (40.85); 3.3010 (0.53); 3.2857 (0.54); 3.2129 (1.21); 2.5527 (0.39); 2.5253 (0.70); 2.5118 (15.44); 2.5074 (31.58); 2.5030 (42.53); 2.4985 (30.35); 2.4942 (14.22); 2.4623 (0.33); 2.4579 (0.49); 2.4534 (0.56); 2.4488 (0.37); 1.9898 (1.70);

1.1923 (0.47); 1.1745 (0.91); 1.1568 (0.46); -0.0002 (4.74)
Example 417, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1117 (2.91); 7.8366 (0.35); 7.8154 (2.25); 7.8083 (2.37); 7.8015 (5.52); 7.7873 (0.42); 7.6835 (0.58); 7.6796 (0.68); 7.6743 (0.38); 7.6637 (0.42); 7.6587 (0.66); 7.6544 (0.57); 7.5521 (0.58); 7.5484 (0.39); 7.5360 (0.93); 7.5321 (0.99); 7.5162 (0.68); 7.3833 (0.42); 7.3796 (0.44); 7.3708 (0.42); 7.3671 (0.49); 7.3628 (0.66); 7.3592 (0.67); 7.3502 (0.62); 7.3469 (0.66); 7.3427 (0.35); 7.1168 (1.28); 7.1100 (1.26); 7.1029 (1.09); 7.0961 (1.23); 5.3771 (6.26); 4.6774 (0.38); 4.6647 (0.42); 4.6548 (0.71); 4.6453 (0.51); 4.6322 (0.34); 3.4011 (2.49); 3.3700 (0.51); 3.3509 (185.01); 3.3006 (1.44); 3.1931 (16.00); 2.5581 (0.40); 2.5304 (0.44); 2.5256 (0.73); 2.5169 (10.75); 2.5125 (22.54); 2.5080 (30.69); 2.5035 (21.63); 2.4990 (9.87); 1.8775 (0.68); 1.8646 (0.79); 1.8514 (0.82); 1.8457 (0.82); 1.7337 (0.68); 1.7241 (0.74); 1.7105 (0.78); 1.7033 (0.73); 1.5281 (0.35); 1.5188 (0.37); 1.4985 (0.42); 1.4331 (0.79); 1.4083 (1.04); 1.3840 (1.15); 1.3578 (0.93); 1.3513 (0.71); 1.3320 (0.69); 1.3257 (0.79); 1.2997 (0.40); 1.2754 (0.34); 1.2458 (0.53)
Example 420, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5177 (1.98); 8.0906 (1.25); 8.0699 (1.48); 7.8464 (1.24); 7.8272 (1.69); 7.8069 (1.15); 7.6862 (0.58); 7.6823 (0.66); 7.6769 (0.37); 7.6664 (0.41); 7.6610 (0.64); 7.6569 (0.55); 7.5498 (0.32); 7.5460 (0.57); 7.5423 (0.38); 7.5300 (0.92); 7.5261 (0.99); 7.5138 (0.45); 7.5101 (0.69); 7.3844 (0.46); 7.3807 (0.47); 7.3719 (0.45); 7.3681 (0.49); 7.3639 (0.66); 7.3603 (0.67); 7.3513 (0.64); 7.3480 (0.65); 7.3436 (0.34); 7.1635 (1.74); 7.1461 (1.67); 5.4045 (6.13); 4.0421 (0.67); 4.0243 (0.68); 3.3924 (0.88); 3.3424 (77.23); 3.2925 (0.82); 3.1764 (16.00); 2.5304 (0.40); 2.5256 (0.66); 2.5169 (9.30); 2.5125 (19.45); 2.5080 (26.44); 2.5035 (18.66); 2.4990 (8.55); 2.4075 (1.74); 2.3892 (3.15); 2.3705 (1.92); 1.9943 (3.03); 1.5952 (0.45); 1.5770 (1.28); 1.5582 (1.78); 1.5400 (1.32); 1.5208 (0.55); 1.3307 (1.06); 1.3117 (1.65); 1.2930 (1.68); 1.2748 (1.04); 1.1968 (0.85); 1.1790 (1.70); 1.1612 (0.83); 0.9046 (4.01); 0.8864 (8.31); 0.8679 (3.39)
Example 442, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5729 (2.54); 7.6843 (1.28); 7.6818 (2.35); 7.6792 (1.44); 7.6636 (2.21); 7.6618 (2.12); 7.6252 (0.49); 7.6156 (4.44); 7.6131 (4.76); 7.6066 (3.50); 7.6052 (3.44); 7.6030 (3.29); 7.5993 (2.30); 7.5827 (0.39); 7.5791 (0.37); 7.5308 (1.54); 7.5219 (1.39); 7.5179 (1.15); 7.5117 (1.39); 7.5091 (1.21); 7.5038 (1.15); 7.4978 (0.97); 7.4899 (0.84); 7.4050 (5.45); 7.0215 (1.58); 7.0200 (1.56); 7.0025 (2.18); 7.0003 (2.04); 6.9469 (0.32); 6.9258 (0.70); 6.9207 (1.10); 6.9131 (1.20); 6.9056 (1.32); 6.8982 (2.05); 6.8941 (0.82); 6.8861 (1.16); 6.8818 (1.70); 6.8789 (2.45); 6.8689 (6.04); 6.8643 (4.65); 6.8532 (1.58); 6.8490 (1.86); 6.8458 (1.21); 6.8400 (0.72); 6.8355 (0.63); 6.8294 (0.39); 6.8236 (0.41); 5.7632 (16.00); 5.3970 (7.78); 5.1698 (1.47); 5.1616 (2.59); 5.1515 (1.50); 5.0500 (0.32); 5.0416 (0.55); 5.0342 (0.34); 4.4778 (0.39); 4.4674 (0.34); 4.4480 (2.63); 4.4411 (3.44); 4.4380 (3.33); 4.4334 (3.02); 4.4121 (0.82); 4.4035 (0.69); 4.2844 (0.43); 4.2773 (0.43); 4.2553 (0.33); 4.2483 (0.33); 3.4069 (2.55); 3.3569 (173.53); 3.3071 (2.33); 3.2639 (0.47); 3.2139 (21.67); 2.6774 (0.36); 2.5628 (0.49); 2.5583 (0.67); 2.5538 (0.49); 2.5307 (0.97); 2.5172 (22.00); 2.5128 (45.68); 2.5083 (61.93); 2.5038 (44.10); 2.4994 (20.54); 2.4674 (0.37); 2.4629 (0.57); 2.4585 (0.72); 2.4539 (0.53); 2.3351 (0.40)
Example 444, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1810 (2.80); 7.8181 (2.56); 7.8134 (2.63); 7.8054 (5.69); 7.7925 (0.45); 7.7299 (0.60); 7.7257 (0.69); 7.7109 (1.14); 7.7065 (1.41); 7.6907 (0.69); 7.6868 (0.75); 7.6549 (0.36); 7.6505 (0.36); 7.6414 (0.42); 7.6366 (0.77); 7.6338 (0.61); 7.6321 (0.60); 7.6296 (0.52); 7.6217 (0.74); 7.6183 (0.64); 7.6157 (0.82); 7.6110 (0.48); 7.6019 (0.52); 7.5975 (0.45); 7.3961 (0.82); 7.3941 (0.90); 7.3751 (0.84); 7.3727 (0.97); 7.3679 (2.29); 7.3505 (1.85); 7.3480 (2.05); 7.3445 (0.95); 7.3320 (0.97); 7.3293 (0.81); 7.1218 (1.28); 7.1137 (1.33); 7.1092 (1.11); 7.1011 (1.26); 5.3642 (6.35); 4.1042 (1.90); 4.0874 (4.16); 4.0707 (1.98); 3.4274 (7.09); 3.4174 (0.61); 3.3778 (477.76); 3.3546 (4.45); 3.3452 (1.68); 3.3280 (8.75); 3.3155 (1.05); 3.1925 (16.00); 2.5576 (0.34); 2.5305 (0.76); 2.5257 (1.12); 2.5172 (10.43); 2.5127 (21.52); 2.5082 (29.41); 2.5037 (21.37); 2.4992 (10.64); 2.4677 (0.37); 2.4630 (0.47); 2.4584 (0.55); 2.4539 (0.42); 1.6310 (0.86); 1.6139 (1.40); 1.6083 (0.94); 1.5967 (1.04); 1.5798 (0.37); 1.3464 (1.11); 1.3436 (1.07); 1.3359 (1.79); 1.3284 (3.68); 1.3196 (2.75); 1.3104 (2.57); 1.2585 (0.32); 0.9005 (1.82); 0.8941 (1.10); 0.8831 (5.10); 0.8716 (1.24); 0.8651 (1.56)
Example 449, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5144 (2.11); 8.1062 (1.48); 8.0856 (1.80); 7.8463 (1.28); 7.8270 (1.81); 7.8131 (0.35); 7.8067 (1.27); 7.7266 (0.62); 7.7224 (0.70); 7.7074 (1.16); 7.7032 (1.39); 7.6872 (0.61); 7.6834 (0.71); 7.6579 (0.36); 7.6536 (0.36); 7.6444 (0.42); 7.6396 (0.78); 7.6369 (0.66); 7.6246 (0.69); 7.6214 (0.70); 7.6188 (0.83); 7.6141 (0.47); 7.6049 (0.47); 7.6006 (0.42); 7.3978 (0.97); 7.3766 (0.95); 7.3706 (2.60); 7.3506 (2.78); 7.3332 (0.93); 7.3307 (0.81); 7.1678 (1.83); 7.1501 (1.76); 5.3952 (6.38); 5.3592 (0.36); 3.4051 (3.56); 3.3552 (250.07); 3.3152 (0.86); 3.3053 (2.59); 3.1977 (0.93); 3.1820 (16.00); 2.6938 (0.54); 2.6773 (0.70); 2.6628 (0.39); 2.5581 (0.37); 2.5306 (0.43); 2.5171 (10.44); 2.5127 (21.58); 2.5082 (29.22); 2.5038 (20.80); 2.4994 (9.69); 1.5945 (0.47); 1.5899 (0.40); 1.5804 (0.48); 1.5739 (0.56); 1.5686 (0.41); 1.5591 (0.55); 1.3328 (0.41); 1.3210 (0.50); 1.3149 (0.39); 1.3076 (0.76); 1.3029 (0.59); 1.2937 (0.84); 1.2881 (0.96); 1.2737 (1.49); 1.2599 (1.58); 1.2538 (1.55); 1.2444 (1.63); 1.2389 (1.27); 1.2256 (0.49); 1.2211 (0.53); 1.2136 (0.37); 1.0708 (6.10); 1.0538 (6.09); 0.8836 (2.90); 0.8657 (5.89); 0.8477 (2.34)
Example 460, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8085 (1.01); 8.1598 (1.38); 7.7943 (0.33); 7.7736 (0.65); 7.7552 (0.64); 7.7280 (0.92); 7.7072 (0.43); 7.5742 (0.32); 7.3320 (0.36); 7.3130 (0.46); 7.3082 (0.34); 7.3009 (0.62); 7.2990 (0.64); 7.2891 (0.36); 7.2790 (0.44); 7.2649 (3.66); 7.2626 (3.50); 7.1349 (0.56); 7.1170 (0.55); 5.2629 (2.06); 5.2442 (0.60); 4.0426 (0.47); 4.0247 (0.48); 2.5628 (0.36); 2.5583 (0.43); 2.5305 (0.69); 2.5170 (11.70); 2.5127 (23.94); 2.5082 (32.26); 2.5038 (23.18); 2.4995 (10.88); 1.9948 (1.61); 1.4828 (0.57); 1.4639 (16.00); 1.3390 (0.76); 1.2383 (0.53); 1.1973 (0.45); 1.1795 (0.87); 1.1617 (0.43)
Example 464, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5149 (2.05); 8.0915 (1.24); 8.0708 (1.47); 7.8463 (1.24); 7.8270 (1.69); 7.8068 (1.16); 7.6858 (0.58); 7.6819 (0.67); 7.6766 (0.38); 7.6661 (0.41); 7.6611 (0.64); 7.6566 (0.56); 7.6400 (0.32); 7.5497 (0.33); 7.5459 (0.58); 7.5422 (0.39); 7.5299 (0.93); 7.5260 (0.99); 7.5136 (0.45); 7.5100 (0.69); 7.3841 (0.48); 7.3804 (0.48); 7.3715 (0.46); 7.3678 (0.50); 7.3634 (0.66); 7.3599 (0.68); 7.3509 (0.64); 7.3475 (0.66); 7.3434 (0.35); 7.1638 (1.76); 7.1464 (1.67); 7.1452 (1.65); 5.4044 (6.09); 4.0421 (0.96); 4.0243 (0.98); 4.0065 (0.32); 3.3926 (0.75); 3.3426 (74.92);

3.2928 (0.83); 3.1761 (16.00); 2.5305 (0.35); 2.5257 (0.59); 2.5170 (8.84); 2.5125 (18.52); 2.5080 (25.27); 2.5035 (17.91); 2.4990 (8.28); 2.3976 (1.63); 2.3793 (3.06); 2.3607 (1.79); 1.9943 (4.35); 1.6128 (0.34); 1.5942 (1.04); 1.5758 (1.46); 1.5578 (1.01); 1.5396 (0.35); 1.3240 (0.36); 1.3086 (0.78); 1.2917 (1.62); 1.2842 (2.50); 1.2769 (2.04); 1.2664 (1.65); 1.2575 (1.21); 1.2468 (0.66); 1.2394 (0.48); 1.1968 (1.23); 1.1790 (2.42); 1.1612 (1.20); 0.8845 (2.40); 0.8674 (6.29); 0.8497 (2.53)
Example 480, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5120 (2.13); 8.0883 (1.33); 8.0675 (1.61); 7.8429 (1.24); 7.8235 (1.79); 7.8034 (1.26); 7.7253 (0.60); 7.7211 (0.68); 7.7061 (1.13); 7.7019 (1.41); 7.6859 (0.66); 7.6822 (0.76); 7.6564 (0.37); 7.6521 (0.37); 7.6429 (0.42); 7.6381 (0.78); 7.6354 (0.69); 7.6232 (0.75); 7.6198 (0.71); 7.6173 (0.85); 7.6126 (0.50); 7.6034 (0.48); 7.5991 (0.44); 7.3963 (0.95); 7.3751 (0.97); 7.3695 (2.52); 7.3494 (2.60); 7.3327 (0.96); 7.3302 (0.81); 7.1621 (1.83); 7.1443 (1.75); 5.7601 (2.18); 5.3896 (6.41); 3.4083 (1.59); 3.3580 (127.96); 3.3120 (0.85); 3.3081 (1.79); 3.1982 (0.60); 3.1790 (16.00); 2.5167 (5.65); 2.5124 (11.37); 2.5079 (15.19); 2.5035 (10.91); 2.4992 (5.18); 2.4164 (0.34); 2.4071 (1.83); 2.3889 (3.28); 2.3702 (1.98); 1.5951 (0.46); 1.5769 (1.34); 1.5581 (1.88); 1.5397 (1.41); 1.5207 (0.57); 1.3301 (1.09); 1.3112 (1.76); 1.2924 (1.77); 1.2742 (1.06); 1.2589 (0.62); 1.2433 (0.54); 0.9031 (3.97); 0.8848 (8.04); 0.8664 (3.35); 0.7719 (0.53)
Example 481, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1354 (3.63); 7.6863 (1.77); 7.6839 (3.15); 7.6813 (1.94); 7.6657 (2.98); 7.6640 (2.88); 7.6223 (0.63); 7.6130 (6.12); 7.6104 (6.40); 7.6038 (4.90); 7.6023 (4.91); 7.6005 (4.72); 7.5968 (3.22); 7.5801 (0.54); 7.5766 (0.51); 7.5407 (0.43); 7.5297 (2.12); 7.5205 (1.92); 7.5170 (1.59); 7.5105 (1.95); 7.5079 (1.63); 7.5025 (1.57); 7.4969 (1.34); 7.4888 (1.20); 7.2990 (8.24); 5.3716 (11.47); 4.0415 (0.41); 4.0237 (0.41); 3.4112 (0.57); 3.4046 (3.66); 3.3904 (0.45); 3.3547 (297.76); 3.3048 (3.10); 3.2635 (0.41); 3.2136 (29.99); 2.5624 (0.43); 2.5579 (0.57); 2.5533 (0.42); 2.5304 (0.77); 2.5169 (16.75); 2.5125 (34.20); 2.5080 (45.90); 2.5035 (32.38); 2.4990 (14.91); 2.4626 (0.45); 2.4579 (0.58); 2.4535 (0.51); 2.4428 (3.59); 2.4245 (6.31); 2.4057 (3.93); 1.9937 (1.83); 1.6132 (0.89); 1.5949 (2.58); 1.5905 (1.24); 1.5762 (3.50); 1.5577 (2.66); 1.5387 (1.12); 1.3472 (0.62); 1.3286 (2.09); 1.3097 (3.33); 1.2910 (3.44); 1.2728 (2.26); 1.2543 (1.20); 1.2490 (1.22); 1.1961 (0.56); 1.1783 (1.02); 1.1605 (0.51); 0.9016 (7.73); 0.8833 (16.00); 0.8648 (6.91); 0.8611 (2.73); 0.8432 (1.04)
Example 493, Solvent: DMSO, Spectrometer: 400,13 MHz
12.5522 (2.06); 7.6803 (3.75); 7.6777 (2.34); 7.6621 (3.55); 7.6602 (3.42); 7.6238 (0.78); 7.6142 (7.21); 7.6117 (7.59); 7.6052 (5.61); 7.6014 (5.09); 7.5977 (3.66); 7.5811 (0.63); 7.5775 (0.71); 7.5390 (0.52); 7.5277 (2.56); 7.5189 (2.26); 7.5147 (1.86); 7.5086 (2.32); 7.5060 (2.00); 7.5009 (1.88); 7.4946 (1.62); 7.4869 (1.47); 7.4742 (0.32); 7.4653 (0.32); 7.3691 (10.44); 7.3166 (0.70); 7.3107 (4.17); 7.3055 (1.91); 7.2991 (2.41); 7.2922 (6.41); 7.2891 (6.51); 7.2808 (2.88); 7.2770 (3.47); 7.2706 (5.57); 7.2644 (1.46); 7.2591 (2.02); 6.9692 (2.45); 6.9508 (4.41); 6.9365 (2.15); 6.9324 (3.27); 6.9265 (6.15); 6.9241 (7.08); 6.9189 (2.74); 6.9046 (6.50); 6.8958 (0.92); 6.8721 (1.91); 6.8696 (2.30); 6.8501 (2.05); 6.8480 (1.68); 5.7594 (16.00); 5.3876 (12.97); 5.2756 (0.34); 5.0820 (1.00); 5.0655 (3.48); 5.0490 (3.48); 5.0324 (0.97); 4.8317 (0.35); 4.8148 (1.18); 4.7978 (1.19); 4.7809 (0.37); 3.7201 (0.33); 3.4243 (4.78); 3.3745 (216.51); 3.3264 (4.65); 3.2665 (0.91); 3.2163 (35.02); 3.1665 (0.49); 3.0693 (0.41); 2.8342 (0.35); 2.6816 (0.32); 2.6771 (0.45); 2.6725 (0.34); 2.5627 (0.60); 2.5582 (0.78); 2.5537 (0.53); 2.5304 (1.08); 2.5256 (1.83); 2.5169 (26.82); 2.5125 (56.25); 2.5080 (76.63); 2.5035 (54.45); 2.4991 (25.21); 2.4674 (0.52); 2.4629 (0.71); 2.4583 (0.78); 2.4538 (0.51); 2.3393 (0.33); 2.3349 (0.47); 2.3302 (0.35); 1.9929 (1.17); 1.5613 (12.89); 1.5448 (13.20); 1.5181 (0.50); 1.5052 (5.79); 1.4882 (5.66); 1.2371 (0.52); 1.1954 (0.35); 1.1776 (0.65); 1.1598 (0.33)
Example 499, Solvent: DMSO, Spectrometer: 400,13 MHz
11.9277 (4.49); 7.6901 (4.46); 7.6877 (2.89); 7.6718 (4.46); 7.6704 (4.25); 7.6192 (0.96); 7.6102 (8.62); 7.6077 (9.21); 7.5988 (8.49); 7.5945 (4.78); 7.5777 (0.67); 7.5742 (0.66); 7.5382 (0.64); 7.5273 (2.96); 7.5177 (2.87); 7.5151 (2.48); 7.5081 (2.83); 7.5056 (2.41); 7.4997 (2.26); 7.4948 (1.95); 7.4864 (1.64); 7.3081 (11.76); 5.7619 (7.50); 5.3377 (16.00); 4.2889 (0.49); 4.2726 (0.33); 4.2568 (5.17); 4.2405 (11.56); 4.2242 (5.38); 3.4191 (0.55); 3.4134 (0.51); 3.4078 (3.57); 3.3872 (0.48); 3.3578 (290.56); 3.3254 (0.53); 3.3079 (2.91); 3.2915 (0.61); 3.2416 (40.76); 3.1915 (0.56); 3.1884 (0.70); 2.9337 (3.59); 2.9271 (8.15); 2.9205 (3.78); 2.6071 (3.14); 2.6005 (3.29); 2.5908 (6.69); 2.5842 (6.51); 2.5745 (3.35); 2.5679 (3.14); 2.5584 (0.83); 2.5540 (0.67); 2.5380 (0.50); 2.5309 (0.99); 2.5171 (15.11); 2.5128 (30.62); 2.5083 (41.00); 2.5038 (29.40); 2.4995 (13.88); 2.4628 (0.41); 2.4585 (0.47); 2.4540 (0.35); 1.9936 (1.06); 1.1779 (0.58)
Example 508, Solvent: DMSO, Spectrometer: 400,13 MHz
7.6971 (0.71); 7.6934 (0.75); 7.6763 (1.46); 7.6728 (1.69); 7.6675 (0.93); 7.6565 (1.04); 7.6514 (1.65); 7.6305 (0.77); 7.6270 (0.75); 7.5544 (1.38); 7.5383 (2.26); 7.5346 (2.37); 7.5185 (1.62); 7.4095 (2.84); 7.3911 (3.87); 7.3893 (3.82); 7.3810 (1.20); 7.3774 (1.28); 7.3707 (3.72); 7.3651 (1.37); 7.3606 (1.72); 7.3572 (1.69); 7.3478 (1.63); 7.3449 (1.68); 7.3366 (0.81); 7.3273 (0.73); 7.3245 (0.72); 6.5282 (4.45); 6.5105 (4.26); 6.4053 (4.50); 6.3848 (4.33); 6.0324 (7.56); 5.7609 (1.95); 5.2252 (16.00); 4.0204 (0.32); 3.3866 (0.69); 3.3361 (45.64); 3.2858 (0.58); 3.2638 (0.51); 3.2134 (34.60); 3.1630 (0.46); 2.9992 (0.44); 2.5586 (0.39); 2.5542 (0.53); 2.5497 (0.39); 2.5121 (15.31); 2.5081 (30.66); 2.5037 (40.81); 2.4993 (29.29); 2.4579 (0.41); 2.4534 (0.51); 2.4489 (0.36); 1.9903 (1.39); 1.2789 (0.45); 1.2453 (2.12); 1.1928 (0.44); 1.1750 (0.74); 1.1572 (0.37); 0.8748 (0.95); 0.8580 (2.85); 0.8404 (1.17); -0.0002 (5.13)
Example 510, Solvent: DMSO, Spectrometer: 400,13 MHz
7.8076 (0.58); 7.7990 (0.35); 7.7956 (0.33); 7.7338 (1.50); 7.7296 (1.66); 7.7147 (2.92); 7.7104 (3.29); 7.6947 (1.70); 7.6909 (1.72); 7.6457 (0.89); 7.6415 (0.89); 7.6321 (1.11); 7.6274 (1.95); 7.6248 (1.72); 7.6126 (1.82); 7.6092 (1.75); 7.6067 (2.02); 7.6020 (1.20); 7.5928 (1.16); 7.5885 (1.00); 7.5825 (0.35); 7.5790 (0.36); 7.4060 (2.96); 7.3877 (6.18); 7.3668 (6.66); 7.3460 (4.65); 7.3447 (4.64); 7.3277 (2.16); 7.3252 (1.85); 6.5268 (4.43); 6.5091 (4.24); 6.4031 (4.49); 6.3827 (4.29); 6.0269 (7.18); 5.9794 (0.51); 5.7555 (12.51); 5.3534 (0.71); 5.2080 (16.00); 5.1456 (0.70); 3.4050 (1.11); 3.3901 (0.72); 3.3537 (88.85); 3.3129 (0.65); 3.3041 (1.48); 3.2646 (0.43); 3.2135 (34.42); 3.1926 (1.86); 3.1638 (0.55); 3.1483 (0.33); 2.5057 (22.11); 2.5013 (28.75); 2.4970 (21.00); 2.4606 (0.32); 2.4560 (0.41); 2.4516 (0.45); 1.9867 (1.17); 1.5305 (2.66); 1.3700 (1.17); 1.3544 (1.16); 1.2528 (1.57); 1.2372 (1.62); 1.1889 (0.35); 1.1711 (0.65); 1.1533 (0.33)
Example 512, Solvent: CDCl3, Spectrometer: 300,16 MHz
7.6104 (2.40); 7.6053 (1.28); 7.5941 (0.85); 7.5874 (3.11); 7.5821 (2.41); 7.4879 (0.37); 7.4632 (1.44); 7.4550 (0.50); 7.4446 (0.99); 7.4398

(1.50); 7.4349 (0.83); 7.4170 (2.71); 7.3971 (1.53); 7.3918 (2.74); 7.3745 (0.52); 7.3689 (1.00); 7.3634 (0.63); 7.2621 (3.61); 6.9361 (4.17); 5.3797 (7.09); 3.3237 (2.13); 3.2992 (3.25); 3.2745 (2.30); 3.0246 (16.00); 1.7509 (0.48); 1.7274 (1.18); 1.7020 (1.98); 1.6940 (0.95); 1.6776 (1.39); 1.6519 (0.71); 1.5092 (0.36); 1.4846 (1.13); 1.4595 (1.71); 1.4341 (1.70); 1.4101 (1.04); 1.3862 (0.36); 1.3052 (1.25); 1.2531 (1.10); 0.9659 (3.84); 0.9416 (7.60); 0.9171 (3.27); -0.0002 (2.05)
Example 513, Solvent: DMSO, Spectrometer: 400,13 MHz
10.5079 (2.05); 8.0859 (1.25); 8.0652 (1.51); 7.8428 (1.24); 7.8236 (1.72); 7.8032 (1.24); 7.7233 (0.60); 7.7190 (0.68); 7.7042 (1.09); 7.6999 (1.35); 7.6839 (0.63); 7.6801 (0.70); 7.6564 (0.36); 7.6520 (0.36); 7.6429 (0.41); 7.6380 (0.76); 7.6354 (0.62); 7.6336 (0.60); 7.6312 (0.52); 7.6231 (0.71); 7.6197 (0.63); 7.6172 (0.79); 7.6125 (0.44); 7.6034 (0.45); 7.5990 (0.39); 7.3959 (0.92); 7.3747 (0.92); 7.3692 (2.44); 7.3491 (2.44); 7.3325 (0.93); 7.3299 (0.76); 7.1614 (1.74); 7.1440 (1.68); 5.3873 (6.13); 3.4294 (6.56); 3.4165 (0.47); 3.4126 (0.48); 3.4078 (0.68); 3.3795 (451.85); 3.3544 (1.07); 3.3478 (0.56); 3.3449 (0.47); 3.3384 (0.35); 3.3297 (5.58); 3.3100 (0.76); 3.1961 (0.72); 3.1769 (16.00); 2.5579 (0.33); 2.5304 (0.40); 2.5255 (0.72); 2.5169 (9.83); 2.5125 (20.41); 2.5080 (27.65); 2.5035 (19.57); 2.4990 (9.03); 2.4581 (0.33); 2.3954 (1.65); 2.3770 (3.07); 2.3584 (1.79); 1.6111 (0.33); 1.5925 (1.02); 1.5741 (1.45); 1.5562 (1.01); 1.5379 (0.34); 1.3218 (0.35); 1.3059 (0.77); 1.2896 (1.63); 1.2823 (2.54); 1.2749 (2.08); 1.2643 (1.74); 1.2579 (1.66); 1.2426 (1.10); 0.8822 (2.38); 0.8651 (6.24); 0.8475 (2.53); 0.7930 (0.33)
Example 519, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7891 (2.69); 7.6904 (1.74); 7.6881 (3.03); 7.6856 (1.88); 7.6698 (2.90); 7.6682 (2.75); 7.6295 (0.53); 7.6269 (0.69); 7.6203 (1.05); 7.6117 (5.99); 7.6092 (6.15); 7.6022 (4.81); 7.6004 (5.39); 7.5958 (3.35); 7.5791 (0.42); 7.5756 (0.41); 7.5389 (0.45); 7.5280 (2.12); 7.5186 (1.96); 7.5157 (1.58); 7.5088 (1.91); 7.5063 (1.57); 7.5006 (1.51); 7.4954 (1.31); 7.4871 (1.11); 7.2904 (8.13); 7.2392 (0.69); 5.4325 (0.74); 5.3335 (10.81); 4.2500 (0.59); 4.1799 (3.66); 4.1634 (7.84); 4.1468 (3.74); 4.0693 (0.61); 3.4046 (5.19); 3.3914 (0.38); 3.3814 (0.61); 3.3547 (404.79); 3.3344 (1.04); 3.3229 (0.54); 3.3150 (0.34); 3.3047 (4.39); 3.2843 (0.43); 3.2345 (28.39); 3.1929 (2.23); 3.1846 (0.38); 2.6772 (0.34); 2.5627 (0.45); 2.5582 (0.64); 2.5537 (0.45); 2.5307 (0.81); 2.5259 (1.37); 2.5172 (20.14); 2.5128 (42.22); 2.5083 (57.50); 2.5038 (40.91); 2.4994 (19.00); 2.4675 (0.35); 2.4629 (0.54); 2.4584 (0.65); 2.4540 (0.48); 2.3350 (0.37); 1.9942 (0.96); 1.6517 (0.79); 1.6346 (2.47); 1.6280 (0.95); 1.6170 (3.20); 1.5975 (2.85); 1.5810 (1.38); 1.4156 (0.58); 1.3970 (2.04); 1.3780 (3.27); 1.3591 (3.36); 1.3409 (2.07); 1.3226 (0.66); 1.2811 (0.44); 1.2491 (1.92); 1.1967 (0.33); 1.1788 (0.55); 0.9310 (7.70); 0.9126 (16.00); 0.8941 (6.74); 0.8797 (1.73); 0.8708 (0.80); 0.8618 (3.82); 0.8442 (1.70)
Example 525, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3136 (2.88); 7.8476 (0.58); 7.8266 (1.98); 7.8102 (4.65); 7.8058 (2.87); 7.7890 (0.77); 7.7846 (0.40); 7.7313 (0.61); 7.7271 (0.70); 7.7123 (1.18); 7.7079 (1.45); 7.6922 (0.68); 7.6883 (0.74); 7.6544 (0.34); 7.6500 (0.35); 7.6408 (0.42); 7.6360 (0.77); 7.6332 (0.63); 7.6212 (0.73); 7.6153 (0.83); 7.6105 (0.46); 7.6014 (0.51); 7.5972 (0.44); 7.3935 (0.94); 7.3675 (2.23); 7.3501 (1.89); 7.3482 (2.01); 7.3318 (0.92); 7.3293 (0.78); 7.1370 (1.39); 7.1328 (1.42); 7.1207 (1.31); 7.1164 (1.34); 5.7579 (1.89); 5.3679 (6.56); 4.1954 (2.03); 4.1788 (4.53); 4.1621 (2.09); 3.4791 (0.33); 3.4282 (6.97); 3.3788 (426.80); 3.3442 (0.56); 3.3295 (6.85); 3.3159 (0.86); 3.1958 (16.00); 2.9130 (1.33); 2.9064 (3.02); 2.8998 (1.41); 2.5794 (1.21); 2.5727 (1.29); 2.5627 (2.74); 2.5562 (2.81); 2.5463 (1.36); 2.5395 (1.30); 2.5303 (0.78); 2.5168 (10.27); 2.5125 (20.83); 2.5080 (27.94); 2.5035 (19.75); 2.4991 (9.11); 2.4631 (0.35); 2.4586 (0.43)
Example 530, Solvent: DMSO, Spectrometer: 400,13 MHz
11.7847 (4.18); 7.6882 (4.37); 7.6859 (2.81); 7.6699 (4.32); 7.6684 (4.17); 7.6264 (0.51); 7.6202 (1.08); 7.6114 (8.54); 7.6089 (8.99); 7.6000 (8.05); 7.5956 (4.71); 7.5787 (0.61); 7.5753 (0.61); 7.5387 (0.63); 7.5277 (2.92); 7.5182 (2.71); 7.5155 (2.34); 7.5085 (2.72); 7.5061 (2.33); 7.5003 (2.13); 7.4952 (1.86); 7.4869 (1.60); 7.2901 (11.92); 7.2385 (0.36); 5.7631 (1.84); 5.4332 (0.35); 5.3336 (16.00); 4.1711 (5.02); 4.1544 (10.81); 4.1377 (5.09); 3.4131 (0.38); 3.4046 (7.16); 3.3546 (450.31); 3.3182 (0.37); 3.3043 (3.32); 3.2855 (0.81); 3.2355 (40.34); 3.2071 (0.33); 3.1920 (1.08); 3.1851 (0.37); 2.6774 (0.41); 2.5626 (0.67); 2.5582 (1.01); 2.5537 (0.81); 2.5492 (0.50); 2.5307 (1.17); 2.5171 (25.22); 2.5128 (51.74); 2.5083 (69.75); 2.5039 (50.03); 2.4996 (23.67); 2.4624 (0.43); 2.4580 (0.58); 2.3398 (0.33); 2.3351 (0.45); 1.6687 (0.73); 1.6510 (2.53); 1.6337 (4.05); 1.6164 (2.91); 1.5993 (1.03); 1.3616 (0.67); 1.3464 (2.78); 1.3365 (5.10); 1.3284 (9.52); 1.3191 (8.57); 1.3102 (6.18); 1.3017 (2.54); 1.2779 (0.77); 0.9014 (5.01); 0.8840 (14.37); 0.8662 (4.55); 0.8519 (0.91); 0.8338 (0.41)
Example 534, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3216 (2.76); 7.8511 (0.57); 7.8346 (0.44); 7.8301 (1.91); 7.8139 (4.58); 7.8096 (2.73); 7.7930 (0.64); 7.6835 (0.59); 7.6796 (0.68); 7.6743 (0.38); 7.6637 (0.42); 7.6590 (0.65); 7.6544 (0.55); 7.5530 (0.58); 7.5494 (0.39); 7.5370 (0.93); 7.5331 (0.99); 7.5208 (0.46); 7.5171 (0.67); 7.3835 (0.41); 7.3798 (0.44); 7.3708 (0.43); 7.3672 (0.49); 7.3629 (0.65); 7.3593 (0.67); 7.3503 (0.62); 7.3470 (0.66); 7.3428 (0.34); 7.1387 (1.35); 7.1343 (1.38); 7.1224 (1.27); 7.1180 (1.28); 5.7638 (7.80); 5.3856 (6.21); 4.1966 (1.95); 4.1800 (4.43); 4.1633 (2.01); 3.4009 (2.37); 3.3508 (229.28); 3.3194 (0.33); 3.3009 (2.19); 3.2434 (0.35); 3.1948 (16.00); 2.9199 (1.33); 2.9133 (3.15); 2.9066 (1.40); 2.5805 (1.16); 2.5738 (1.21); 2.5638 (2.74); 2.5572 (2.80); 2.5473 (1.29); 2.5406 (1.13); 2.5304 (0.63); 2.5256 (0.97); 2.5169 (13.21); 2.5125 (27.64); 2.5080 (37.59); 2.5034 (26.53); 2.4990 (12.15); 2.4625 (0.32); 2.4580 (0.41)
Example 538, Solvent: DMSO, Spectrometer: 400,13 MHz
12.1325 (5.11); 7.6841 (4.02); 7.6815 (2.50); 7.6658 (3.80); 7.6641 (3.72); 7.6228 (0.80); 7.6135 (7.73); 7.6109 (8.18); 7.6042 (6.16); 7.6027 (6.36); 7.6012 (6.15); 7.5974 (4.07); 7.5808 (0.61); 7.5772 (0.61); 7.5411 (0.54); 7.5301 (2.70); 7.5208 (2.44); 7.5174 (2.02); 7.5109 (2.45); 7.5083 (2.08); 7.5029 (1.95); 7.4973 (1.70); 7.4892 (1.50); 7.2994 (10.05); 5.3716 (14.60); 4.0419 (0.38); 4.0242 (0.38); 3.4109 (0.69); 3.4057 (6.88); 3.3899 (0.77); 3.3557 (585.31); 3.3258 (0.86); 3.3057 (7.09); 3.2629 (0.54); 3.2128 (38.11); 3.1628 (0.47); 2.6819 (0.38); 2.6773 (0.50); 2.6728 (0.37); 2.5629 (0.65); 2.5583 (0.90); 2.5539 (0.73); 2.5307 (1.29); 2.5172 (28.69); 2.5128 (59.14); 2.5083 (79.86); 2.5038 (56.71); 2.4994 (26.29); 2.4630 (0.79); 2.4583 (1.00); 2.4538 (0.78); 2.4491 (0.53); 2.4337 (4.29); 2.4152 (8.10); 2.3966 (4.66); 2.3397 (0.44); 2.3351 (0.70); 1.9941 (1.67); 1.6315 (0.86); 1.6130 (2.66); 1.5946 (3.69); 1.5766 (2.57); 1.5582 (0.88); 1.3214 (1.02); 1.3054 (2.15); 1.2890 (4.40); 1.2818 (7.02); 1.2742 (5.74); 1.2636 (5.22); 1.2547 (4.45); 1.2449 (3.99); 1.2168 (0.67); 1.1966 (0.68); 1.1788 (1.03); 1.1610 (0.51); 0.8840 (6.22); 0.8669 (16.00); 0.8619 (6.17); 0.8493 (6.72); 0.8444 (2.66); 0.8170 (0.36)

Example 539, Solvent: DMSO, Spectrometer: 400,13 MHz
12.4467 (0.49); 7.7288 (1.42); 7.7161 (0.46); 7.7111 (1.81); 7.7073 (1.24); 7.5464 (0.89); 7.5317 (0.52); 7.5283 (0.80); 7.5248 (0.41); 7.5019 (1.33); 7.4867 (0.89); 7.4828 (1.64); 7.4653 (0.62); 7.4618 (0.34); 7.2866 (1.15); 5.7567 (3.06); 5.3019 (2.79); 3.4665 (0.36); 3.4168 (6.80); 3.3669 (522.30); 3.3171 (5.64); 3.0140 (8.63); 2.5545 (0.43); 2.5271 (0.55); 2.5136 (14.16); 2.5092 (29.42); 2.5047 (39.85); 2.5002 (28.41); 2.4958 (13.26); 2.4594 (0.35); 2.4549 (0.44); 2.4503 (0.32); 2.0750 (0.62); 1.4895 (16.00)
Example 543, Solvent: DMSO, Spectrometer: 400,13 MHz
12.4396 (2.27); 7.6840 (1.99); 7.6815 (1.27); 7.6658 (1.92); 7.6640 (1.91); 7.6234 (0.41); 7.6138 (3.82); 7.6114 (4.07); 7.6047 (3.12); 7.6035 (3.11); 7.6013 (2.97); 7.5976 (2.08); 7.5810 (0.35); 7.5774 (0.34); 7.5292 (1.32); 7.5202 (1.21); 7.5163 (1.02); 7.5100 (1.26); 7.5075 (1.11); 7.5022 (1.00); 7.4962 (0.85); 7.4883 (0.78); 7.3600 (0.39); 7.3576 (0.47); 7.3533 (0.34); 7.3382 (4.24); 7.3337 (4.71); 7.3250 (16.00); 7.3185 (6.34); 7.3049 (0.38); 7.2988 (0.67); 7.2968 (0.67); 7.2840 (1.06); 7.2770 (1.13); 7.2747 (1.24); 7.2658 (1.37); 7.2626 (1.42); 7.2574 (0.86); 7.2490 (0.88); 7.2413 (0.41); 5.3809 (7.22); 4.0420 (0.87); 4.0242 (0.89); 3.7676 (8.88); 3.5650 (1.20); 3.4075 (1.86); 3.3955 (0.32); 3.3576 (152.35); 3.3076 (1.72); 3.2186 (18.39); 2.5306 (0.50); 2.5171 (10.66); 2.5128 (21.73); 2.5083 (29.16); 2.5038 (20.82); 2.4995 (9.74); 2.4584 (0.33); 1.9942 (3.82); 1.2476 (1.36); 1.1964 (1.07); 1.1786 (2.07); 1.1608 (1.01); 0.8782 (0.63); 0.8614 (2.01); 0.8437 (0.79)
Example 552, Solvent: DMSO, Spectrometer: 400,13 MHz
10.1835 (2.74); 7.8187 (2.69); 7.8149 (2.69); 7.8064 (5.53); 7.7299 (0.61); 7.7256 (0.69); 7.7109 (1.15); 7.7065 (1.41); 7.6907 (0.67); 7.6868 (0.72); 7.6548 (0.36); 7.6504 (0.35); 7.6413 (0.42); 7.6365 (0.77); 7.6338 (0.60); 7.6321 (0.58); 7.6296 (0.50); 7.6216 (0.73); 7.6181 (0.62); 7.6156 (0.80); 7.6109 (0.45); 7.6018 (0.50); 7.5975 (0.41); 7.3942 (0.93); 7.3727 (0.98); 7.3679 (2.34); 7.3504 (1.88); 7.3480 (2.11); 7.3319 (0.93); 7.3293 (0.78); 7.1218 (1.28); 7.1131 (1.37); 7.1097 (1.10); 7.1010 (1.21); 5.7587 (0.88); 5.3644 (6.44); 4.1131 (2.04); 4.0965 (4.36); 4.0799 (2.06); 3.4259 (4.59); 3.4205 (0.49); 3.4039 (0.64); 3.3759 (406.79); 3.3504 (0.68); 3.3259 (5.60); 3.3153 (0.88); 3.1924 (16.00); 2.5304 (0.42); 2.5255 (0.71); 2.5170 (9.17); 2.5125 (19.04); 2.5080 (25.79); 2.5035 (18.12); 2.4990 (8.26); 2.4579 (0.35); 1.6317 (0.42); 1.6145 (1.30); 1.6081 (0.52); 1.5972 (1.66); 1.5918 (1.07); 1.5776 (1.39); 1.5610 (0.58); 1.3981 (1.06); 1.3790 (1.65); 1.3653 (0.76); 1.3602 (1.72); 1.3421 (1.01); 1.2583 (0.82); 1.2427 (0.84); 0.9288 (4.20); 0.9104 (8.58); 0.8919 (3.51)

Intensity of sharp signals correlates with the height of the signals in a printed example of a NMR spectrum in cm and shows the real relations of signal intensities. From broad signals several peaks or the middle of the signal and their relative intensity in comparison to the most intensive signal in the spectrum can be shown.

For calibrating chemical shift for 1H spectra, we use tetramethylsilane and/or the chemical shift of the solvent used, especially in the case of spectra measured in DMSO. Therefore in NMR peak lists, tetramethylsilane peak can occur but not necessarily.

The 1H-NMR peak lists are similar to classical 1H-NMR prints and contain therefore usually all peaks, which are listed at classical NMR-interpretation.

Additionally they can show like classical 1H-NMR prints signals of solvents, stereoisomers of the target compounds, which are also object of the invention, and/or peaks of impurities.

To show compound signals in the delta-range of solvents and/or water the usual peaks of solvents, for example peaks of DMSO in DMSO-D_6 and the peak of water are shown in our 1H-NMR peak lists and have usually on average a high intensity .

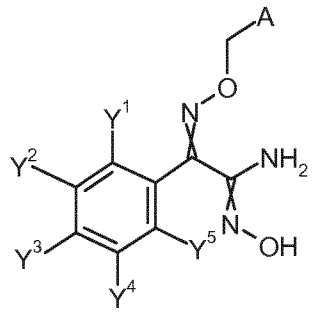
The peaks of stereoisomers of the target compounds and/or peaks of impurities have usually on average a lower intensity than the peaks of target compounds (for example with a purity >90%).

Such stereoisomers and/or impurities can be typical for the specific preparation process. Therefore their peaks can help to recognize the reproduction of our preparation process via “side-products-fingerprints”.

An expert, who calculates the peaks of the target compounds with known methods (MestreC, ACD-simulation, but also with empirically evaluated expectation values) can isolate the peaks of the target compounds as needed optionally using additional intensity filters. This isolation would be similar to relevant peak picking at classical 1H-NMR interpretation.

Further details of NMR-data description with peak lists you find in the publication „ Citation of NMR Peaklist Data within Patent Applications “ of the Research Disclosure Database Number 564025.

The following table 2 illustrates in a non limiting manner examples of compounds of formula (V) according to the invention.



(V)

In table 2 we use the following abbreviations for specified claimed elements "A^1" and "A^2" of the generic structure (I) of the invention:

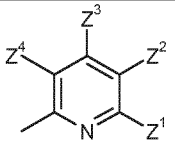
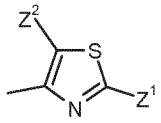
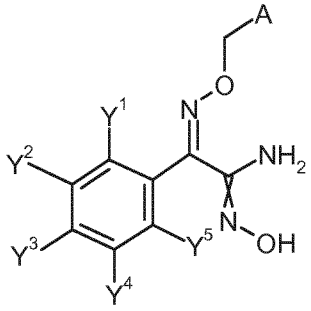
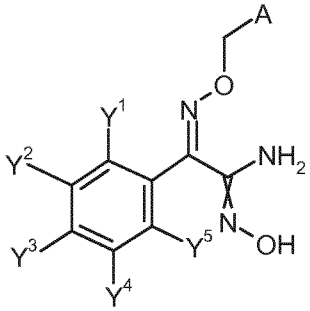
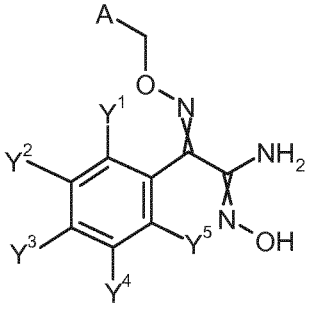
 A^1	 A^2

Table 2

Ex-no	Y^1	Y^2	Y^3	Y^4	Y^5	A	Z^1	Z^2	Z^3	Z^4	Stereo	LogP
V-1	H	H	H	H	H	A1	[(but-3-yn-1-yloxy)carbonyl]amino	H	H	H	Z,U	2,1[a]
V-2	H	H	H	H	H	A2	amino	H			Z,U	0,43[a]
V-3	H	H	H	H	H	A1	amino	H	H	H	Z,U	0,41[a]
V-5	H	H	H	H	fluoro	A1	(tert-butoxycarbonyl)amino	H	H	H	Z,U	2,68[a]
V-6	H	methoxy	H	H	H	A1	amino	H	H	H	U,U	0,58[a]
V-7	H	CH_3	H	H	H	A1	amino	H	H	H	U,U	0,75[a]
V-8	H	H	fluoro	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z,U	2,68[a]
V-9	H	H	H	H	H	A1	amino	H	H	H	U,U	0,39[a]
V-10	H	H	H	H	chloro	A2	amino	H			Z,U	0.73[a]
V-11	H	H	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z,U	2,54[a]
V-12	H	fluoro	H	H	H	A1	amino	H	H	H	U,U	0,56[a]
V-13	H	H	methoxy	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z,U	2,51[a]
V-14	H	H	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	Z,U	2,57[a]
V-15	H	H	CH_3	H	H	A2	amino	H			Z,U	0,89[a]
V-16	fluoro	fluoro	H	H	H	A1	(tert-butoxycarbonyl)amino	H	H	H	U,U	2,9[a]

We describe the double bond geometry of the examples of table 2 as shown here:

V (Z, U)	V (U,U)	V (E,U)
		

Measurement of logP values was performed according EEC directive 79/831 Annex V.A8 by HPLC (High Performance Liquid Chromatography) on reversed phase columns with the following methods:

[a] Measurement of LC-MS was done at pH 2,7 with 0,1 % formic acid in water and with acetonitrile (contains 0,1% formic acid) as eluent with a linear gradient from 10 % acetonitrile to 95 % acetonitrile. Calibration was done with not branched alkan2-ones (with 3 to 16 carbon atoms) with known logP-values (measurement of logP values using retention times with linear interpolation between successive alkanones). lambda-maX-values were determined using UV-spectra from 200 nm to 400 nm and the peak values of the chromatographic signals.

NMR-Peak lists

1H-NMR data of selected examples are written in form of 1H-NMR-peak lists. To each signal peak are listed the δ-value in ppm and the signal intensity in round brackets. Between the δ-value – signal intensity pairs are semicolons as delimiters.

The peak list of an example has therefore the form:

δ_1 (intensity$_1$); δ_2 (intensity$_2$);.....; δ_i (intensity$_i$);.....; δ_n (intensity$_n$)

NMR Peak List Table 2

Example V-1, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2384 (6.32); 9.5810 (13.93); 7.7909 (1.47); 7.7700 (3.84); 7.7525 (4.80); 7.7422 (5.37); 7.7243 (1.83); 7.5899 (3.91); 7.5855 (5.01); 7.5774 (2.97); 7.5723 (4.42); 7.5658 (5.73); 7.5505 (0.33); 7.4352 (0.38); 7.4304 (0.45); 7.4142 (2.59); 7.4070 (9.61); 7.4032 (8.91); 7.3964 (3.44); 7.3887 (5.02); 7.3806 (1.29); 7.3763 (1.37); 7.3706 (0.64); 7.3662 (0.71); 7.1661 (3.23); 7.1511 (3.03); 5.9854 (8.22); 5.4365 (0.34); 5.2038 (13.23); 4.1935 (4.30); 4.1769 (9.43); 4.1602 (4.47); 4.0603 (1.21); 4.0426 (3.71); 4.0247 (3.76); 4.0070 (1.26); 3.3392 (422.26); 3.3159 (2.65); 2.9149 (2.89); 2.9084 (6.35); 2.9018 (3.09); 2.6756 (0.55); 2.5771 (2.62); 2.5705 (2.80); 2.5605 (5.58); 2.5538 (5.57); 2.5438 (3.33); 2.5371 (3.44); 2.5112 (71.28); 2.5068 (94.61); 2.5024 (68.57); 2.3336 (0.58); 1.9937 (16.00); 1.2371 (0.41); 1.1971 (4.22); 1.1793 (8.32); 1.1615 (4.08); 1.0499 (0.39); 1.0347 (0.37)
Example V-2, Solvent: DMSO, Spectrometer: 400,13 MHz
9.5491 (15.10); 7.9561 (0.37); 7.5986 (4.12); 7.5934 (5.07); 7.5850 (5.16); 7.5742 (5.35); 7.4520 (0.37); 7.4455 (0.39); 7.4084

(10.73); 7.4033 (9.94); 7.3951 (6.17); 7.3911 (5.82); 7.3811 (1.82); 7.3677 (0.64); 6.9462 (8.98); 6.8974 (0.61); 6.5207 (7.46); 6.3354 (0.34); 5.8870 (8.21); 4.9797 (13.41); 4.9560 (0.57); 4.3672 (0.76); 4.3569 (0.84); 4.0593 (1.18); 4.0415 (3.66); 4.0237 (3.70); 4.0060 (1.27); 3.4971 (0.62); 3.3982 (1.44); 3.3500 (796.75); 3.3269 (13.02); 3.2172 (0.45); 2.8944 (2.41); 2.7352 (1.99); 2.6757 (0.62); 2.6716 (0.47); 2.5153 (42.64); 2.5110 (85.51); 2.5066 (115.29); 2.5022 (85.59); 2.4981 (44.52); 2.3379 (0.69); 2.3333 (0.85); 2.3289 (0.70); 1.9932 (16.00); 1.9289 (0.36); 1.1962 (4.25); 1.1784 (8.48); 1.1606 (4.28); 1.0489 (5.22); 1.0336 (5.22); 1.0068 (0.37); 0.9911 (0.33)
Example V-3, Solvent: DMSO, Spectrometer: 400,13 MHz
9.5835 (13.01); 8.3625 (0.37); 7.5882 (4.44); 7.5838 (5.66); 7.5713 (5.26); 7.5643 (6.24); 7.5507 (0.81); 7.4450 (1.04); 7.4381 (0.87); 7.4292 (0.89); 7.4020 (11.27); 7.3979 (10.91); 7.3843 (6.11); 7.3723 (1.96); 7.3655 (3.78); 7.3462 (4.70); 7.3268 (2.98); 6.5792 (4.56); 6.5611 (4.32); 6.3511 (4.77); 6.3307 (4.59); 6.0162 (8.57); 5.9407 (9.28); 5.0551 (15.24); 5.0194 (1.15); 4.0601 (1.27); 4.0423 (3.80); 4.0245 (3.84); 4.0068 (1.30); 3.3355 (29.82); 3.3117 (0.86); 2.6758 (0.36); 2.5103 (49.80); 2.5063 (63.64); 2.5024 (48.40); 2.3328 (0.40); 1.9941 (16.00); 1.4690 (1.60); 1.3672 (5.00); 1.3289 (0.43); 1.2469 (0.33); 1.2313 (0.41); 1.2153 (0.37); 1.1969 (4.20); 1.1791 (8.28); 1.1613 (4.14); 1.0497 (0.33); 1.0344 (0.36)
Example V-5, Solvent: DMSO, Spectrometer: 400,13 MHz
10.3501 (0.70); 10.0193 (2.28); 9.7981 (0.35); 9.7886 (0.39); 9.7751 (0.99); 7.7649 (0.78); 7.7561 (0.33); 7.7477 (1.00); 7.7414 (1.08); 7.7382 (1.21); 7.7232 (0.39); 7.7205 (0.46); 7.7172 (0.50); 7.4206 (0.38); 7.3712 (0.48); 7.3671 (0.46); 7.2552 (0.33); 7.2127 (0.96); 7.1934 (1.14); 7.1754 (0.35); 7.1727 (0.37); 7.1676 (0.35); 7.1176 (0.58); 7.1143 (0.59); 7.1004 (0.54); 7.0972 (0.53); 6.0190 (1.16); 5.4960 (0.40); 5.1917 (2.45); 5.1726 (0.78); 5.1364 (0.73); 4.3783 (0.63); 4.3679 (0.65); 3.4137 (1.17); 3.3637 (98.84); 3.3138 (0.97); 2.5167 (5.13); 2.5123 (10.50); 2.5078 (14.14); 2.5033 (10.05); 2.4989 (4.67); 1.4718 (16.00); 1.4676 (7.25); 1.4586 (5.96); 1.3449 (0.38); 1.0499 (4.29); 1.0346 (4.22)
Example V-6, Solvent: DMSO, Spectrometer: 400,13 MHz
9.6370 (0.70); 7.4196 (0.51); 7.4009 (0.49); 7.3688 (0.34); 7.2198 (0.33); 7.1966 (0.34); 7.1549 (0.44); 7.1048 (0.32); 6.6322 (0.45); 6.4048 (0.44); 6.3849 (0.41); 6.0589 (0.67); 6.0014 (0.88); 5.9870 (0.56); 5.1080 (0.97); 5.0737 (0.76); 3.8140 (1.62); 3.8037 (2.10); 3.4077 (16.00); 2.5607 (6.25); 2.0479 (1.01); 1.4147 (3.15); 1.2322 (0.54)
Example V-7, Solvent: DMSO, Spectrometer: 400,13 MHz
9.5760 (6.62); 8.3420 (0.76); 7.3883 (5.91); 7.3676 (4.96); 7.3485 (3.46); 7.3294 (2.43); 7.2979 (1.40); 7.2790 (3.12); 7.2604 (2.23); 7.2335 (2.92); 7.2149 (1.47); 6.6030 (0.53); 6.5779 (2.96); 6.5597 (2.73); 6.3537 (3.14); 6.3332 (3.03); 6.0066 (6.27); 5.9484 (6.83); 5.0527 (9.42); 5.0163 (2.00); 4.3786 (1.17); 4.3685 (1.22); 3.7863 (0.42); 3.7747 (0.41); 3.3618 (126.69); 2.5107 (33.34); 2.3242 (4.01); 2.3099 (16.00); 1.9974 (0.53); 1.3672 (8.64); 1.3273 (0.79); 1.0530 (6.86); 1.0378 (6.86)
Example V-8, Solvent: DMSO, Spectrometer: 400,13 MHz
9.8779 (0.56); 9.7865 (1.21); 9.6621 (0.57); 9.6336 (3.02); 7.7446 (0.65); 7.7337 (0.90); 7.7236 (0.59); 7.7166 (1.41); 7.7111 (1.06); 7.7047 (0.50); 7.6478 (0.53); 7.6268 (1.05); 7.6215 (0.35); 7.6129 (0.85); 7.6043 (0.88); 7.5961 (0.37); 7.5905 (0.80); 7.2696 (0.82); 7.2473 (1.52); 7.2251 (0.76); 7.1220 (0.58); 7.1180 (0.93); 7.1054 (0.53); 7.1013 (0.69); 6.0218 (1.41); 5.7691 (0.46); 5.3607 (0.38); 5.3461 (0.87); 5.3315 (0.40); 5.1883 (2.33); 4.4588 (0.94); 4.4442 (0.92); 3.3459 (5.83); 2.5274 (0.35); 2.5186 (5.01); 2.5143 (10.54); 2.5098 (14.40); 2.5053 (10.39); 2.5009 (4.90); 1.9970 (0.49); 1.4936 (3.04); 1.4707 (16.00); 1.4614 (12.40); 1.3492 (0.46)
Example V-9, Solvent: DMSO, Spectrometer: 400,13 MHz
11.6706 (0.57); 9.6437 (11.07); 9.6111 (0.83); 9.5063 (0.63); 8.4196 (0.59); 7.7923 (0.46); 7.7813 (0.37); 7.6999 (0.55); 7.6809 (0.65); 7.6363 (6.50); 7.6236 (6.88); 7.6173 (6.99); 7.5953 (1.26); 7.4949 (1.76); 7.4818 (2.21); 7.4494 (13.30); 7.4362 (7.91); 7.4173 (4.66); 7.3978 (5.09); 7.3783 (2.83); 6.6564 (0.54); 6.6317 (4.88); 6.6136 (4.56); 6.4035 (5.20); 6.3830 (5.05); 6.3504 (0.33); 6.3303 (0.35); 6.0740 (10.41); 5.9980 (11.15); 5.9375 (0.56); 5.8614 (0.66); 5.8221 (0.66); 5.1080 (16.00); 5.0728 (1.69); 4.3673 (0.40); 4.1097 (0.74); 4.0921 (2.21); 4.0743 (2.25); 4.0565 (0.76); 3.3989 (18.10); 2.5564 (28.20); 2.0442 (8.96); 1.5193 (0.74); 1.4187 (6.75); 1.4031 (1.13); 1.3796 (0.48); 1.2810 (0.33); 1.2463 (2.37); 1.2285 (4.62); 1.2108 (2.32); -0.0002 (0.88)
Example V-10, Solvent: DMSO, Spectrometer: 400,13 MHz
10.2843 (0.88); 10.2483 (5.58); 7.4351 (1.19); 7.4160 (2.67); 7.4015 (1.05); 7.3921 (1.16); 7.3889 (1.30); 7.3793 (1.59); 7.3704 (1.05); 7.3596 (1.06); 7.3517 (0.73); 7.3307 (4.25); 7.3211 (3.26); 7.3190 (2.88); 6.9883 (3.79); 6.9201 (0.65); 6.5519 (3.30); 6.4022 (0.49); 5.9548 (3.07); 5.4767 (0.50); 4.9653 (6.06); 4.9214 (0.91); 4.3712 (2.12); 4.3608 (2.23); 3.7995 (0.51); 3.7891 (0.53); 3.7843 (0.71); 3.7738 (0.69); 3.7691 (0.58); 3.7586 (0.53); 3.4075 (1.69); 3.3574 (108.93); 3.3075 (1.85); 2.8952 (0.74); 2.7366 (0.60); 2.5165 (8.02); 2.5124 (16.13); 2.5080 (21.76); 2.5036 (16.33); 2.4681 (0.61); 2.4630 (0.62); 2.4583 (0.61); 2.4540 (0.48); 1.9948 (1.32); 1.1979 (0.35); 1.1801 (0.69); 1.1623 (0.35); 1.0515 (15.90); 1.0362 (16.00); 1.0016 (0.39)

Example V-11, Solvent: DMSO, Spectrometer: 400,13 MHz 9.7597 (1.29); 9.5891 (2.61); 7.7312 (0.81); 7.7140 (1.69); 7.7093 (1.19); 7.6923 (0.33); 7.5921 (0.80); 7.5877 (1.04); 7.5796 (0.71); 7.5749 (0.94); 7.5681 (1.16); 7.4136 (0.58); 7.4068 (2.01); 7.4028 (1.90); 7.3955 (0.87); 7.3886 (1.12); 7.3807 (0.36); 7.3765 (0.36); 7.1311 (0.60); 7.1276 (0.63); 7.1145 (0.57); 7.1111 (0.59); 5.9845 (1.68); 5.1919 (2.69); 4.0430 (0.63); 4.0252 (0.64); 3.3402 (10.07); 2.5110 (2.83); 2.5067 (3.75); 2.5024 (2.84); 1.9938 (2.65); 1.4699 (16.00); 1.1970 (0.71); 1.1792 (1.39); 1.1614 (0.70); 1.0477 (1.52); 1.0326 (1.53)
Example V-12, Solvent: DMSO, Spectrometer: 400,13 MHz 9.7235 (1.91); 7.5204 (0.47); 7.5026 (0.54); 7.4753 (1.06); 7.4563 (0.44); 7.4266 (0.63); 7.4075 (0.95); 7.3883 (0.56); 7.3676 (0.70); 7.3429 (0.99); 7.3252 (0.62); 6.6247 (0.98); 6.6066 (0.84); 6.4128 (0.92); 6.3923 (0.89); 6.1293 (1.87); 6.0148 (2.03); 5.1290 (2.84); 5.0941 (0.50); 3.4120 (16.00); 2.5614 (6.29); 2.0478 (1.20); 1.4178 (1.98); 1.2497 (0.32); 1.2324 (0.62); 1.1034 (0.78); 1.0887 (0.78)
Example V-13, Solvent: DMSO, Spectrometer: 300,16 MHz 9.7890 (1.09); 9.5497 (0.53); 7.7369 (0.96); 7.7157 (2.18); 7.6911 (0.38); 7.5387 (1.69); 7.5096 (1.86); 7.1356 (0.79); 7.1181 (0.74); 6.9814 (1.86); 6.9522 (1.67); 5.9612 (2.01); 5.1652 (2.89); 3.7826 (6.20); 3.3647 (3.36); 2.5205 (2.59); 1.4805 (16.00); 1.0636 (0.71); 1.0434 (0.71)
Example V-15, Solvent: DMSO, Spectrometer: 300,16 MHz 9.5113 (5.70); 7.4915 (5.08); 7.4656 (6.21); 7.2124 (6.05); 7.1871 (5.11); 7.1412 (0.90); 6.9410 (8.68); 6.5056 (5.27); 5.8482 (7.91); 4.9567 (10.11); 4.8853 (0.43); 3.3439 (16.33); 2.5007 (4.74); 2.3105 (16.00); 1.0475 (0.84); 1.0272 (0.84)
Example V-16, Solvent: DMSO, Spectrometer: 400,13 MHz 10.6429 (0.37); 10.4140 (0.90); 10.1114 (2.88); 9.8002 (0.44); 9.7870 (1.15); 7.7905 (0.32); 7.7698 (0.84); 7.7522 (1.06); 7.7449 (0.92); 7.7419 (0.99); 7.7321 (0.33); 7.7240 (0.42); 7.7208 (0.38); 7.7149 (0.34); 7.4705 (0.44); 7.4655 (0.34); 7.4569 (0.34); 7.2216 (0.44); 7.2117 (0.90); 7.2034 (0.84); 7.1996 (0.71); 7.1929 (0.58); 7.1147 (0.70); 7.1117 (0.66); 7.0974 (0.62); 6.0780 (1.19); 5.5613 (0.42); 5.2094 (2.49); 5.1576 (0.79); 4.0425 (0.61); 4.0247 (0.62); 3.3406 (23.20); 2.8956 (0.34); 2.5577 (0.39); 2.5299 (0.75); 2.5165 (13.42); 2.5121 (27.31); 2.5076 (36.65); 2.5032 (26.10); 2.4989 (12.23); 2.4621 (0.34); 2.4575 (0.40); 1.9950 (2.71); 1.4723 (16.00); 1.4604 (7.39); 1.3451 (0.91); 1.3397 (0.46); 1.2392 (0.61); 1.1973 (0.75); 1.1795 (1.48); 1.1617 (0.74)

Intensity of sharp signals correlates with the height of the signals in a printed example of a NMR spectrum in cm and shows the real relations of signal intensities. From broad signals several peaks or the middle of the signal and their relative intensity in comparison to the most intensive signal in the spectrum can be shown.

For calibrating chemical shift for 1H spectra, we use tetramethylsilane and/or the chemical shift of the solvent used, especially in the case of spectra measured in DMSO. Therefore in NMR peak lists, tetramethylsilane peak can occur but not necessarily.

The 1H-NMR peak lists are similar to classical 1H-NMR prints and contain therefore usually all peaks, which are listed at classical NMR-interpretation.

Additionally they can show like classical 1H-NMR prints signals of solvents, stereoisomers of the target compounds, which are also object of the invention, and/or peaks of impurities.

To show compound signals in the delta-range of solvents and/or water the usual peaks of solvents, for example peaks of DMSO in DMSO-D_6 and the peak of water are shown in our 1H-NMR peak lists and have usually on average a high intensity .

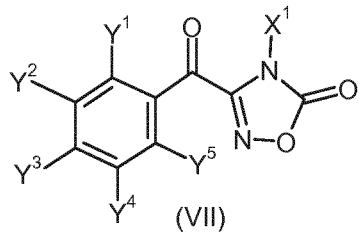
The peaks of stereoisomers of the target compounds and/or peaks of impurities have usually on average a lower intensity than the peaks of target compounds (for example with a purity >90%).

Such stereoisomers and/or impurities can be typical for the specific preparation process. Therefore their peaks can help to recognize the reproduction of our preparation process via “side-products-fingerprints”.

An expert, who calculates the peaks of the target compounds with known methods (MestreC, ACD-simulation, but also with empirically evaluated expectation values) can isolate the peaks of the target compounds as needed optionally using additional intensity filters. This isolation would be similar to relevant peak picking at classical 1H-NMR interpretation.

Further details of NMR-data description with peak lists you find in the publication „ Citation of NMR Peaklist Data within Patent Applications " of the Research Disclosure Database Number 564025.

The following table 3 illustrates in a non limiting manner examples of compounds of formula (VII) according to the invention.



(VII)

Table 3

Ex.	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	LogP
VII-1	H	H	H	H	H	Me	3,21[a]

Measurement of logP values was performed according EEC directive 79/831 Annex V.A8 by HPLC (High Performance Liquid Chromatography) on reversed phase columns with the following methods:

[a] measurement of LC-MS was done at pH 2,7 with 0,1 % formic acid in water and with acetonitrile (contains 0,1% formic acid) as eluent with a linear gradient from 10 % acetonitrle to 95 % acetonitrile.

Calibration was done with not branched alkan2-ones (with 3 to 16 carbon atoms) with known logP-values (measurement of logP values using retention times with linear interpolation between successive alkanones).. lambda-maX-values were determined using UV-spectra from 200 nm to 400 nm and the peak values of the chromatographic signals.

NMR-Peak lists

1H-NMR data of selected examples are written in form of 1H-NMR-peak lists. To each signal peak are listed the -value in ppm and the signal intensity in round brackets. Between the -value – signal intensity pairs are semicolons as delimiters.

The peak list of an example has therefore the form:

δ_1 (intensity$_1$); δ_2 (intensity$_2$);.....; δ_i (intensity$_i$);.....; δ_n (intensity$_n$)

NMR Peak List Table 3

Example VII-1, Solvent: DMSO, Spectrometer: 499.93 MHz

8.1468 (2.84); 8.1323 (3.08); 8.1301 (2.62); 7.8209 (0.72); 7.8061 (1.66); 7.7912 (1.01); 7.6541 (2.15); 7.6385 (3.33); 7.6228 (1.70); 3.3813 (16.00); 3.3525 (3.79); 2.5148 (0.84); 2.5115 (1.10); 2.5082 (0.84))

Intensity of sharp signals correlates with the height of the signals in a printed example of a NMR spectrum in cm and shows the real relations of signal intensities. From broad signals several peaks or the middle of the signal and their relative intensity in comparison to the most intensive signal in the spectrum can be shown.

For calibrating chemical shift for 1H spectra, we use tetramethylsilane and/or the chemical shift of the solvent used, especially in the case of spectra measured in DMSO. Therefore in NMR peak lists, tetramethylsilane peak can occur but not necessarily.

The 1H-NMR peak lists are similar to classical 1H-NMR prints and contain therefore usually all peaks, which are listed at classical NMR-interpretation.

Additionally they can show like classical 1H-NMR prints signals of solvents, stereoisomers of the target compounds, which are also object of the invention, and/or peaks of impurities.

To show compound signals in the delta-range of solvents and/or water the usual peaks of solvents, for example peaks of DMSO in DMSO-D_6 and the peak of water are shown in our 1H-NMR peak lists and have usually on average a high intensity .

The peaks of stereoisomers of the target compounds and/or peaks of impurities have usually on average a lower intensity than the peaks of target compounds (for example with a purity >90%).

Such stereoisomers and/or impurities can be typical for the specific preparation process. Therefore their peaks can help to recognize the reproduction of our preparation process via “side-products-fingerprints”.

An expert, who calculates the peaks of the target compounds with known methods (MestreC, ACD-simulation, but also with empirically evaluated expectation values) can isolate the peaks of the target compounds as needed optionally using additional intensity filters. This isolation would be similar to relevant peak picking at classical 1H-NMR interpretation.

Further details of NMR-data description with peak lists you find in the publication „ Citation of NMR Peaklist Data within Patent Applications “ of the Research Disclosure Database Number 564025.

Example A

Phytophthora test (tomato) / preventive

Solvent:	49	parts by weight of N,N-dimethylformamide
Emulsifier:	1	part by weight of alkylaryl polyglycol ether

To produce a suitable preparation of active compound, 1 part by weight of active compound is mixed with the stated amounts of solvent and emulsifier, and the concentrate is diluted with water to the desired concentration.

To test for preventive activity, young plants are sprayed with the preparation of active compound at the stated rate of application. One day after this treatment, the plants are inoculated with an aqueous

spore suspension of ***Phytophthora infestans***. The plants remain for one day in an incubation cabinet at approximately 22 °C and a relative atmospheric humidity of 100%. Then the plants are placed in an incubation cabinet at approximately 20 °C and a relative atmospheric humidity of 96%.

The test is evaluated 7 days after the inoculation. 0% means an efficacy which corresponds to that of the untreated control, while an efficacy of 100% means that no disease is observed.

In this test the following compounds according to the invention showed efficacy of 70% or even higher at a concentration of 100 ppm of active ingredient.

Ex_no.	Eff.%
2	100
3	98
5	95
6	98
7	95
8	98
9	95
10	95
11	100
12	95
13	95
14	95
15	98
16	98
17	98
18	95
19	95
20	95
21	97
26	93

Ex_no.	Eff.%
58	80
70	84
74	95
86	90
104	93
111	95
136	95
148	97
154	95
163	95
168	92
198	95
199	97
226	92
282	92
322	75
342	92
347	92
405	95

Example B

Plasmopara test (grapevines) / preventive

Solvent: 24.5 parts by weight of acetone
24.5 parts by weight of dimethylacetamide
Emulsifier: 1 part by weight of alkylaryl polyglycol ether

To produce a suitable preparation of active compound, 1 part by weight of active compound is mixed with the stated amounts of solvent and emulsifier, and the concentrate is diluted with water to the desired concentration.

To test for preventive activity, young plants are sprayed with the preparation of active compound at the stated rate of application. After the spray coating has dried on, the plants are inoculated with an aqueous spore suspension of ***Plasmopara viticola*** and then remain for 1 day in an incubation cabinet at approximately 20 °C and a relative atmospheric humidity of 100%. The plant is subsequently placed for 4 days in a greenhouse at approximately 21 °C and a relative atmospheric humidity of approximately 90%. The plants are then misted and placed for 1 day in an incubation cabinet.

The test is evaluated 6 days after the inoculation. 0% means an efficacy which corresponds to that of the untreated control, while an efficacy of 100% means that no disease is observed.

In this test the following compounds according to the invention showed efficacy of 70% or even higher at a concentration of 10 ppm of active ingredient.

Table

Plasmopara test (grapevines) / preventive

Ex_no.	Eff.%
2	97
3	100
5	88
6	100
7	96
8	99
9	94
10	96
11	98
12	94
13	93
14	96
15	97
16	94
17	94
18	100
19	97
20	94
21	100
37	80
39	97
44	98
50	95
51	91
54	93
59	98
68	90
74	94
80	98
85	73
92	93
95	100
100	74
102	91
104	100
111	100
116	93

Ex_no.	Eff.%
120	84
136	75
140	85
148	100
152	70
163	96
166	95
167	86
168	100
173	86
180	95
195	95
198	100
199	100
206	81
208	91
226	100
228	93
233	78
240	80
244	86
245	93
248	85
281	97
282	96
284	79
291	77
292	90
295	89
296	74
302	92
307	98
312	95
316	84
317	91
318	93
321	82

Ex_no.	Eff.%
325	84
327	95
336	91
340	79
342	100
343	95
344	93
347	100
352	79
355	75
364	100
365	98
376	93
378	95
380	95
389	100
395	93
401	90
404	87
405	85
406	79

Example C

Pythium test (cucumber) / seed treatment

The test is performed under greenhouse conditions.

Cucumber seeds, treated with the active compound or compound combinations, solved in N-methyl-2-pyrrolidon and diluted with water to the desired dosages, were sown in 6*6cm pots containing 4 cm of a 1:1 mix of steamed field soil and sand.

Perlite was incubated with mycelium fragments of ***Pythium aphanidermatum***. 5 ml of infected perlite was scattered between the treated cotton seeds. Seeds were then covered by the 1:1 mix of steamed field soil and sand. Pots were incubated in the greenhouse 7 days at 24°C and 80% relative humidity.

Assessment consisted of counting of emerged seedlings. 0% means an efficacy which corresponds to that of the control, while an efficacy of 100% means that all seedlings have emerged.

In this test the following compounds according to the invention showed an efficacy of 70% or even higher at a dosage of 10 g/dt seed of active ingredient.

Ex_no.	Eff.%
2	98
3	95
15	98
168	92
199	99
226	99
282	100
342	100

Example D

Pythium test (cotton) / seed treatment

The test is performed under greenhouse conditions.

Cotton seeds, treated with the active compound or compound combinations, solved in N-methyl-2-pyrrolidon and diluted with water to the desired dosages, were sown in 6*6cm pots containing 4 cm of a 1:1 mix of steamed field soil and sand.

Perlite was incubated with mycelium fragments of ***Pythium ultimum***. 1 ml of infected perlite was scattered between the treated cotton seeds. Seeds were then covered by light expanded clay aggregate. Pots were incubated in the greenhouse 7 days at 20°C and 80% relative humidity.

Assessment consisted of counting of emerged seedlings. 0% means an efficacy which corresponds to that of the control, while an efficacy of 100% means that all seedlings have emerged.

In this test the following compounds according to the invention showed an efficacy of 70% or even higher at a dosage of 10 g/dt seed of active ingredient.

Ex_no.	Eff.%
2	89
3	93
15	96
92	100
168	70
199	96
226	93
342	100

Example E

Pythium test (corn) / seed treatment

The test is performed under greenhouse conditions.

Corn seeds, treated with the active compound or compound combinations, solved in N-methyl-2-pyrrolidon and diluted with water to the desired dosages, were sown in 6*6cm pots containing 4 cm of a 1:1 mix of steamed field soil and sand.

Perlite was incubated with mycelium fragments of ***Pythium irregulare***. 5 ml of infected perlite was scattered between the treated cotton seeds. Seeds were then covered by the 1:1 mix of steamed field soil and sand. Pots were incubated in the greenhouse 7 days at 10°C and 80% relative humidity and then 14 days at 20°C and 80% relative humidity.

Assessment consisted of counting of emerged seedlings. 0% means an efficacy which corresponds to that of the control, while an efficacy of 100% means that all seedlings have emerged.

In this test the following compounds according to the invention showed an efficacy of 70% or even higher at a dosage of 10 g/dt seed of active ingredient.

Ex_no.	Eff.%
2	100
3	100
15	100
168	100
199	100
226	90
282	90
342	100

Example F: *In vivo* test on *Phytophthora infestans* (Tomato late blight)

The active ingredients tested are prepared by homogenization in a mixture of acetone/Tween/DMSO, then diluted with water to obtain the desired active material concentration.

Tomato plants (Rentita variety) sown in started cups on a 50/50 peat soil-pozzolana subtrate and grown at 20-25°C, are treated at stage Z12 by spraying with the aqueous suspension described above.

Plants, used as controls, are treated with an aqueous solution not containing the active material. After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of *Phytophthora infestans* spores (20.000 spores per ml). The spores are collected from infected plants. The contaminated tomato plants are incubated for 5 days at 20°C, under a humid atmosphere. Grading is carried out 5 days after the contamination, in comparison with the control plants.

Under these conditions, good protection (at least 70%) is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%
8	100
15	99
27	100
29	100
30	100
32	100
33	100
34	99
36	85
37	100
39	100
40	100
42	92
43	100
44	100
47	100
48	98
50	94
52	100
53	73
54	100
55	100
56	100
57	85
59	100
61	100

Ex_no.	Eff.%
62	99
63	100
67	89
68	100
71	99
72	97
73	100
75	90
77	100
78	100
79	88
80	98
81	78
82	99
83	100
84	100
85	99
87	95
88	98
89	99
91	85
92	100
93	99
95	100
98	99
99	99
101	97

Ex_no.	Eff.%
102	100
103	80
106	75
107	100
108	100
109	93
110	98
111	100
112	73
113	90
114	100
118	100
119	97
120	100
123	98
124	99
127	100
130	100
131	100
132	97
133	88
134	99
137	98
138	97
139	100
140	100
142	100

Ex_no.	Eff.%
143	75
144	95
145	83
146	93
147	100
148	100
151	85
152	95
153	100
155	92
158	85
161	92
165	70
166	99
167	98
168	99
170	100
171	100
172	100
173	100
175	93
176	100
177	100
178	99
180	98
182	100
184	99
185	83
186	83
187	80
188	99
190	100
191	95
192	100
197	100
200	98
201	100
202	98
206	100

Ex_no.	Eff.%
207	100
208	100
209	84
210	75
211	91
212	73
215	98
216	95
218	80
219	85
221	100
224	93
225	99
226	100
227	100
228	100
229	100
230	95
232	100
233	99
235	100
236	100
237	97
239	84
240	100
243	99
244	99
246	100
247	99
248	100
250	80
251	98
255	98
256	100
257	100
258	89
261	100
262	78
263	78

Ex_no.	Eff.%
264	94
265	93
266	100
267	97
268	100
270	100
271	80
272	88
276	98
278	100
280	100
281	97
282	98
284	95
285	88
286	97
288	97
289	98
290	75
291	100
292	99
295	97
297	95
300	100
301	100
302	100
303	98
304	83
306	100
308	89
309	100
310	70
312	94
313	100
317	98
318	99
321	97
323	100
324	94

Ex_no.	Eff.%
325	99
327	100
328	75
329	93
331	98
332	85
335	99
336	99
337	99
340	100
341	100
342	99
343	100
344	100
345	99
346	97
347	100
348	100
350	98
351	93

Ex_no.	Eff.%
352	100
355	100
357	92
358	100
361	90
362	71
363	99
364	98
365	100
366	94
367	100
369	70
372	100
373	97
374	100
375	97
376	100
377	99
378	100
379	100

Ex_no.	Eff.%
380	93
381	75
383	70
384	100
386	80
387	100
388	100
389	99
390	100
394	90
395	99
396	73
400	100
401	99
403	100
404	98
406	94
407	95

Example G : *in vivo* test on *Botrytis cinerea* (Grey mould)

The active ingredients tested are prepared by homogenization in a mixture of acetone/Tween/DMSO, then diluted with water to obtain the desired active material

Gherkin plants (Vert petit de Paris variety), sown on a 50/50 peat soil-pozzolana substrate in starter cups and grown at 18- 20°C, are treated at the cotyledon Z11 stage by spraying with the active ingredient prepared as described above.

Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of cryopreserved *Botrytis cinerea* spores (50.000 spores per ml) on upper surface of the leaves. The spores are suspended in a nutrient solution composed of :

- 10 g/L of PDB;
- 50 g/L of D-fructose;
- 2 g/L of NH_4NO_3;
- 1 g/L of KH_2PO_4.

The contaminated cucumber plants are settled for 4/5 days in a climatic room at 17°C (day/night) and at 80% relative humidity.

Grading is carried out 4/5 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%
35	71
36	86
67	80
83	73
180	83
211	84
278	78
332	71
354	71
373	85

Example H : *in vivo* test on *Sphaerotheca fuliginea* (cucurbits powdery mildew).

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material.

Gherkin plants (Vert petit de Paris variety) in starter cups, sown on a 50/50 peat soil-pozzolana substrate and grown at 20°C/23°C, are treated at the cotyledon Z10 stage by spraying with the aqueous suspension described above. Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of *Sphaerotheca fuliginea* spores (100.000 spores per ml). The spores are collected from a contaminated plants .The contaminated gherkin plants are incubated at about 20°C/25°C and at 60/70% relative humidity.

Grading (% of efficacy) is carried out 12 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500ppm with the following compounds:

Ex_no.	Eff.%
83	85
124	80
190	98
197	80
209	75
211	72
212	100

Example I : *In vivo* test *on Uromyces appendiculatus* (Brown rust of bean)

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material.

Wheat plants (Saxa variety) sown on 50/50 peat soil-pozzolana substrate in starter cups and grown at 24°C, are treated at the 2-leaf stage (9 cm tall) by spraying with the aqueous suspension described above.

Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying the leaves with an aqueous suspension of *Uromyces appendiculatus* spores (150.000 spores per ml). The spores are collected from a 10-day-old contaminated wheat and are suspended in water containing 2.5 ml/l of tween 80 10%. The contaminated wheat plants are incubated for 24 hours at 20°C and at 100% relative humidity, and then for 10 days at 20°C and at 70% relative humidity. Grading is carried out 10 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%
39	81
43	75
62	71
83	75
99	71
111	72
113	79
140	73
171	82
185	75
190	83

Ex_no.	Eff.%
197	89
206	91
212	100
216	71
228	70
258	93
276	89
280	83
295	70
400	94
406	79

Example K : *in vivo* test on *Pyrenophora teres* (Barley Net blotch)

The active ingredients tested are prepared by homogenization in a mixture of acetone/Tween/DMSO, then diluted with water to obtain the desired active material concentration.

Barley plants (Plaisant variety), sown on a 50/50 peat soil-pozzolana substrate in starter cups and grown at 22°C (12h) / 20°C (12h), are treated at the 1-leaf stage (10 cm tall) by spraying with the active ingredient prepared as described above.

Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of *Pyrenophora teres* spores (12.000 spores per ml). The spores are collected from a 12-day-old culture.

The contaminated barley plants are incubated for 24 hours at about 20°C and at 100% relative humidity, and then for 12 days at 80% relative humidity.

Grading is carried out 12 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%
35	100
36	71
53	70
71	70
84	70
117	79
212	97
250	79
255	70
256	90
268	96
379	100

Example I: *In vivo* test on *Mycosphaerella graminicola* (Wheat Leaf Spot)

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material concentration.

Wheat plants (Scipion variety), sown on a 50/50 peat soil-pozzolana substrate in starter cups and grown at 22°C (12h) / 20°C (12h), are treated at the 1-leaf stage (10 cm tall) by spraying with the aqueous suspension described above. Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of cryopreserved *Mycosphaerella graminicola* spores (500.000 spores per ml). The contaminated wheat plants are incubated for 72 hours at 18°C and at 100% relative humidity, and then for 21 to 28 days at 90% relative humidity.

Grading (% of efficacy) is carried out 21 to 28 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%		Ex_no.	Eff.%
30	86		190	100
43	91		197	96
57	79		207	79
67	90		212	100
71	88		223	80
77	71		248	86
83	93		250	96
108	71		255	88
111	100		270	86
117	90		308	100
130	86		330	83
151	92		341	70
158	80		384	70
172	86		406	79
173	73			

Example M *: In vivo* test on *Puccinia recondita* (Brown rust)

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material.

Wheat plants (Scipion variety) sown on 50/50 peat soil-pozzolana substrate in starter cups and grown at 22°C (12h) / 20°C (12h), are treated at the 1-leaf stage (10 cm tall) by spraying with the aqueous suspension described above.

Plants, used as controls, are treated with an aqueous solution not containing the active material.

After 24 hours, the plants are contaminated by spraying the leaves with an aqueous suspension of *Puccinia recondita* spores (100.000 spores per ml). The spores are collected from a 10-day-old contaminated wheat and are suspended in water containing 2.5 ml/l of tween 80 10%. The contaminated wheat plants are incubated for 24 hours at 20°C and at 100% relative humidity, and then for 10 days at 20°C and at 70% relative humidity. Grading is carried out 10 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500 ppm with the following compounds:

Ex_no.	Eff.%		Ex_no.	Eff.%
36	75		209	88
39	98		211	71
43	94		212	89
63	75		215	81
67	98		228	81
73	81		233	98
83	89		258	81
88	78		280	98
120	98		292	75
131	81		308	94
140	86		317	81
172	89		324	75
173	89		325	75
185	78		351	75
190	94		384	79
191	89		395	72
197	94		406	81

Example N: *in vivo* test on *Alternaria brassicae* (Leaf spot of crucifers)

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material.

Radish plants (Pernot variety), sown on a 50/50 peat soil-pozzolana substrate in starter cups and grown at 18-20°C, are treated at the cotyledon stage by spraying with the active ingredient prepared as described above.

Plants, used as controls, are treated with the mixture of acetone/tween/water not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of *Alternaria brassicae* spores (40,000 spores per cm^3). The spores are collected from a 12 to 13 days-old culture.

The contaminated radish plants are incubated for 6-7 days at about 18°C, under a humid atmosphere.

Grading is carried out 6 to 7 days after the contamination, in comparison with the control plants.

Under these conditions, good protection (at least 70%) is observed at a dose of 500ppm with the following compounds:

Ex_no.	Eff.%
34	100
39	83
111	70
209	70
212	70
262	83
308	90
364	92

Example O: *in vivo* test on *Pyricularia grisea* (Rice blast)

The active ingredients tested are prepared by homogenization in a mixture of acetone/tween/DMSO, then diluted with water to obtain the desired active material concentration.

Rice plants (Koshihikari variety), sown on a 50/50 peat soil-pozzolana substrate in starter cups and grown at 25°C, are treated at the 2-leaf stage (10 cm tall) by spraying with the active ingredient prepared as described above. Plants, used as controls, are treated with the mixture of acetone/tween/DMSO/water not containing the active material.

After 24 hours, the plants are contaminated by spraying them with an aqueous suspension of *Pyricularia grisea* spores (40,000 spores per ml). The spores are collected from a 17-day-old culture and are suspended in water containing 2.5 g/l of gelatin. The contaminated Rice plants are incubated for 6 days at 25°C and at 80% relative humidity.

Grading (% of efficacy) is carried out 6 days after the contamination, in comparison with the control plants.

Under these conditions, good (at least 70%) or total protection is observed at a dose of 500ppm with the following compounds:

Ex_no.	Eff.%
42	71
95	70
109	70
167	96

171	80
227	96
265	70
306	90

Chemistry

The following examples illustrate in a non-limiting manner the preparation and efficacy of the compounds of formula (I) according to the invention.

Preparation example 1: 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 1) according to process P1

Step 1:

To a solution of (2Z)-(hydroxyimino)(phenyl)acetonitrile (2.5 g, 17.10 mmol, 1 eq.) in 100 ml of acetonitrile and 10 ml DMF was added tert-butyl [6-(chloromethyl)pyridin-2-yl]carbamate (4.15 g, 17.10 mmol, 1 eq.) followed by potassium iodide (283 mg, 1.71 mmol, 0.1 eq.) and caesium carbonate (8.36g, 25.65 mmol, 1.5 eq.). The reaction was stirred overnight at room temperature. The solvent was then evaporated and the residue dissolved in EtOAc (100 ml). The organic layer was washed with H_2O and dried over $MgSO_4$ then concentrated. tert-butyl {6-[({[(Z)-cyano(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (5.39 g, 80 % yield, only 1 oxime isomer) was obtained as a white solid.

Step 2:

To a solution of tert-butyl {6-[({[(Z)-cyano(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (5.4 g, 15.32 mmol, 1eq.) in DCM (200 ml) was added TFA (17.47 g, 153 mmol, 10 eq.). The solution was refluxed for 12h. The reaction was quenched by addition of aq. sat. $NaHCO_3$ and extracted with EtOAc (3 x 50 ml). The organics were combined, dried over $MgSO_4$ and concentrated to give (2Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)acétonitrile (3.86g, 89% yield).

Step 3 : Preparation of (Z)-2-{[(6-aminopyridin-2-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (compound V-3) according to process P1

To a suspension of (2Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)acétonitrile (4g, 15.85 mmol, 1 eq.) in iPrOH/H_2O (10/1, 110 ml) were added hydroxylamine hydrochloride (3.30g, 47.56 mmol, 3 eq.) and potassium carbonate (6.57 g, 47.56 mmol, 3 eq.). The reaction was heated to 80°C for 6 h and the solvent was evaporated to 3/4th. The residue was extracted with EtOAc (3 x 50 ml) and washed with aq. sat. NaCl. The organics were combined, dried over $MgSO_4$ and concentrated to give (Z)-2-{[(6-aminopyridin-2-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (5g, 99% yield) as a white solid.

Step 4 : Preparation of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (compound 23) according to process P1

To a solution of (1Z,2Z)-2-{[(6-aminopyridin-2-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (3g, 10.51 mmol, 1 eq.) in DMF (50 ml) was added CDI (1.70g, 10.51 mmol, 1 eq.) and stirring at room temperature was allowed for 30 min before heated to 80°C for 6h. The reaction was quenched by addition of water and extracted with EtOAc (3 x 50 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated. The residue was triturated in MeCN and a white solid was isolated by filtration giving a first crop of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (1.36 g, 36% yield). The mother liquor was concentrated and purified by chromatography on silica gel to give a second crop (2.9 g, 50% purity, 40% yield).

Step 5 : Preparation of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 1) according to process P1

To a solution of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (1 g, 3.21 mmol, 1eq.) in MeCN (50 ml) and DMF (10 ml) was added potassium carbonate (532 mg, 3.85 mmol, 1.2 eq.) followed by iodomethane (547 mg, 3.85 mmol, 1.2 eq.). The reaction was stirred at room temperature overnight. The reaction was quenched by addition of water and extracted with EtOAc (3 x 50 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated. The residue was purified by chromatography on silica gel to give 3-[(Z)-{[(6-aminopyridin-2-

yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (906 mg, 85% yield) has a white solid.

Preparation example 2: butyl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (compound 18) according to process P2

To a solution of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (60 mg, 0.184 mmol, 1 eq.) in pyridine (2 ml) was added butylcarbamoyl chloride (50.3 mg, 0.369 mmol, 2 eq.) and stirring was allowed overnight. The reaction was quenched by addition of water and concentrated to dryness. The residue was taken in EtOAc and 0.5 ml of 1N NaOH was added. The solution was filtered through a chemelut pad and washed with EtOAc. After concentration, the residue was purified by chromatography on silica gel to give butyl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (60 mg, 75% yield).

Preparation example 3: 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 1) and 3-[(E)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 25) according to process P5

Step 1: Preparation of 3-benzoyl-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound VII-1) according to process P5

To a solution of 3-benzyl-4-methyl-1,2,4-oxadiazol-5(4H)-one (3.87 g, 20.34 mmol, 1 eq.) in acetic acid (120 ml) was added chromium(VI) oxide (6.10g, 61.04 mmol, 3 eq.) and stirring was allowed overnight. The reaction was quenched by addition of water and extracted with Et_2O (3 x 50 ml). The organics were combined, washed with aq. sat. $NaHCO_3$, dried over $MgSO_4$ and concentrated to give 3-benzoyl-4-methyl-1,2,4-oxadiazol-5(4H)-one (3.85 g, 88% yield) as a white solid.

Step 2 : Preparation of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 1) and 3-[(E)-{[(6-aminopyridin-2-

yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 25) according to process P5

In a microwave tube, to a solution of 3-benzoyl-4-methyl-1,2,4-oxadiazol-5(4H)-one (500 mg, 2.44 mmol, 1 eq.) in iPrOH (10 ml) were added 6-[(aminooxy)methyl]pyridin-2-amine (340 mg, 2.44 mmol, 1 eq.) followed by pTSA.H_2O (578 mg, 2.93 mmol, 1.2 eq.). The reaction was microwaved at 160°C for 2h then was quenched by addition of water and extracted with EtOAc (3 x 50 ml). The organics were combined, washed with aq. sat. $NaHCO_3$, dried over $MgSO_4$ and concentrated. The residue was purified by preparative HPLC to give 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (200 mg, 25%) and 3-[(E)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (62 mg, 8%).

Preparation example 4: 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (compound 4) according to process P1

Step 1 :

To a solution of (2Z)-(hydroxyimino)(phenyl)acetonitrile (2.5 g, 17.10 mmol, 1 eq.) in 100 ml of acetonitrile and 10 ml DMF was added 4-(chloromethyl)-1,3-thiazol-2-amine hydrochloride (3.79 g, 20.52 mmol, 1.2 eq.) followed by potassium iodide (283 mg, 1.71 mmol, 0.1 eq.) and caesium carbonate (13.37g, 41.05 mmol, 2.4 eq.). The reaction was stirred overnight at room temperature. The solvent was then evaporated and the residue dissolved in EtOAc (100 ml). The organic layer was washed with H_2O and dried over $MgSO_4$ then concentrated. (2Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)acetonitrile (4 g, 90 % yield, only 1 oxime isomer) was obtained as a white solid.

Step 2 : Preparation of (1Z,2Z)-2-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (compound V-2) according to process P1

To a suspension of (2Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)acetonitrile (4.5g, 17.42 mmol, 1 eq.) in iPrOH/H_2O (10/1, 110 ml) were added hydroxylamine hydrochloride (3.63g, 52.26 mmol, 3 eq.) and potassium carbonate (7.22 g, 52.2 mmol, 3 eq.). The reaction was heated to 80°C for 6 h and the solvent was evaporated to 3/4th. The residue was extracted with EtOAc (3 x 50 ml) and washed with aq. sat. NaCl. The organics were combined, dried over

$MgSO_4$ and concentrated to give (1Z,2Z)-2-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (5.86g) as a white solid.

Step 3 : Preparation of 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (compound 24) according to process P1

To a solution of (1Z,2Z)-2-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}-N'-hydroxy-2-phenylethanimidamide (3g, 10.29 mmol, 1 eq.) in DMF (50 ml) was added CDI (1.66g, 10.29 mmol, 1 eq.) and stirring at room temperature was allowed for 30 min before heated to 80°C for 6h. The reaction was quenched by addition of water and extracted with EtOAc (3 x 50 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated. The residue was triturated in MeCN and a white solid was isolated by filtration giving 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (2.89 g, 50% purity, 43% yield).

Step 4 : Preparation of 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (compound 4) according to process P1

To a solution of 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-1,2,4-oxadiazol-5(4H)-one (2.89g , 50% purity, 4.56 mmol, 1eq.) in MeCN (50 ml) and DMF (10 ml) was added potassium carbonate (757 mg, 5.48 mmol, 1.2 eq.) followed by iodomethane (778 mg, 5.48 mmol, 1.2 eq.). The reaction was stirred at room temperature overnight. The reaction was quenched by addition of water and extracted with EtOAc (3 x 50 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated. The residue was purified by chromatography on silica gel to give 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (930 mg, 61% yield) has a white solid.

Preparation example 5: butyl {4-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]-1,3-thiazol-2-yl}carbamate (compound 14) according to process P2

To a solution of 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (60 mg, 0.181 mmol, 1 eq.) in pyridine (2 ml) was added butylcarbamoyl chloride (49.4 mg, 0.362 mmol, 2 eq.) and stirring was allowed overnight. The reaction was

quenched by addition of water and concentrated to dryness. The residue was taken in EtOAc and 0.5 ml of 1N NaOH was added. The solution was filtered through a chemelut pad and washed with EtOAc. After concentration, the residue was purified by chromatography on silica gel to give butyl {4-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]-1,3-thiazol-2-yl}carbamate (45 mg, 55% yield).

Preparation example 6: tert-butyl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (compound 21) according to process P2

To a solution of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (100 mg, 0.307 mmol, 1 eq.) in tetrahydrofurane (5 ml) was added triethylamine (0.118 mL, 1.23 mmol, 4 eq.) followed by di-*tert*-butyl dicarbonate (201 mg, 0.922 mmol, 3 eq.) and stirring was allowed overnight. The reaction was quenched by addition of 1N HCl and extracted with EtOAc (3 x 20 ml). The organics were combined, dried over $MgSO_4$ and concentrated. The residue was taken in dichloromethane and trifluoroacetic acid (0.118 mL, 1.54 mmol, 5 eq.) was added. The solution was stirred for 2h at room temperature, quenched by addition of aq. sat. $NaHCO_3$ and extracted with EtOAc (3 x 20 ml). The organics were combineddried over $MgSO_4$ and concentrated. After concentration, the residue was purified by chromatography on silica gel to give tert-butyl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (110 mg, 83% yield).

Preparation example 7: tert-butyl (2-cyclohexylethyl){6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (compound 279) according to process P6

A solution of tert-butyl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (100 mg, 0.235 mmol, 1 eq.) in *N,N*-dimethylformamide (2 ml) was treated with sodium hydride (10 mg, 0.259 mmol, 1.1 eq.) and stirred at room temperature for 30 minutes. (2-Bromoethyl)cyclohexane (67 mg, 0.353 mmol, 1.5 eq.) was then added and stirring was allowed overnight. The reaction was quenched by addition of water and extracted with EtOAc (3 x 20 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated to afford tert-butyl (2-cyclohexylethyl){6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-

yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (108 mg, 86% yield) which was used in the next step without further purification.

Preparation example 8: 3-[(Z)-[({6-[(2-cyclohexylethyl)amino]pyridin-2-yl}methoxy)imino](phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 253) according to process P7

A solution of tert-butyl (2-cyclohexylethyl){6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (100 mg, 0.187 mmol, 1 eq.) in dichloromethane (5 ml) was treated with trifluoroacetic acid (0.144 mL, 1.867 mmol, 10 eq.) and refluxed overnight. The reaction was quenched by addition of $NaHCO_3$ sat. aq. and extracted with EtOAc (3 x 20 ml). The organics were combined, washed with aq. sat. NaCl, dried over $MgSO_4$ and concentrated. After concentration, the residue was purified by chromatography on silica gel to give 3-[(Z)-[({6-[(2-cyclohexylethyl)amino]pyridin-2-yl}methoxy)imino](phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (52 mg, 63% yield).

Preparation example 9: 3-[(Z)-({[6-(diethylamino)pyridin-2-yl]methoxy}imino)(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (compound 197) and 4-methyl-3-{(Z)-phenyl[({6-[(1-phenylethyl)amino]pyridin-2-yl}methoxy)imino]methyl}-1,2,4-oxadiazol-5(4H)-one (compound 43) according to process P8

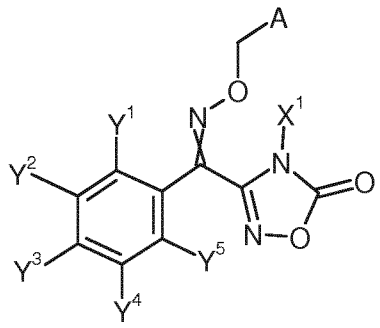
To a solution of 3-[(Z)-{[(6-aminopyridin-2-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (200 mg, 0.615 mmol, 1 eq.) in dichloromethane (2,5 ml) was added under argon acetophenone (73.9 mg, 0.615 mmol, 1 eq.) followed by titanium(IV) chloride (0.615 mL, 0.615 mmol, 1eq.) and stirring was allowed for 1h at room temperature. Sodium triacetoxyborohydride (651.5 mg, 3.07 mmol, 5 eq.) was then added and stirring was allowed overnight at room temperature. The crude mixture was filtered through a chemelut pad and washed with EtOAc. After concentration, the residue was purified by chromatography on silica gel to give 3-[(Z)-({[6-(diethylamino)pyridin-2-yl]methoxy}imino)(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (30mg, 11% yield) and 4-methyl-3-{(Z)-phenyl[({6-[(1-phenylethyl)amino]pyridin-2-yl}methoxy)imino]methyl}-1,2,4-oxadiazol-5(4H)-one (60 mg, 23% yield).

Preparation example 10: 2-methylpentan-2-yl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (compound 233) according to process P10

To a solution of 3-[(Z)-{[(2-amino-1,3-thiazol-4-yl)methoxy]imino}(phenyl)methyl]-4-methyl-1,2,4-oxadiazol-5(4H)-one (120 mg, 0.369 mmol, 1 eq.) in acetonitrile (3 ml) was added 4-fluorophenylcarbonochloridate (70.8 mg, 0.406 mmol, 1.1 eq.), followed by pyridine (0.030 mL, 0.369 mmol, 1 eq.) and stirring was allowed for 2 hours at room temperature. 2-Methyl-4-pentan-2-ol (0.050 mL, 0.406 mmol, 1.1 eq.) was then added and the resulting mixture was refluxed for 5h. After concentration, the residue was purified by chromatography on silica gel to give 2-methylpentan-2-yl {6-[({[(Z)-(4-methyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)(phenyl)methylene]amino}oxy)methyl]pyridin-2-yl}carbamate (105 mg, 59% yield) as a transparent oil.

CLAIMS

1. A compound of formula (I)

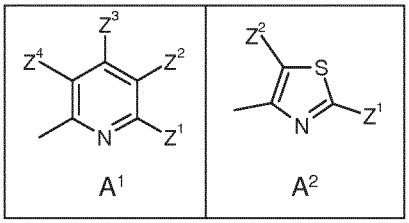


(I)

wherein

- X^1 represents a hydrogen atom, a formyl group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkylcarbonyl ;

- A is selected in the list consisting of A^1 to A^2 :



A^1 A^2

wherein

- Z^1 represents a hydrogen atom, a halogen atom, a nitro group, an amino group, an hydroxyamino group, a hydroxy group, a cyano group, , substituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylamino, a substituted or non-substituted C_2-C_8-alkenylamino, substituted or non-substituted C_2-C_8-alkynylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino, or a group of formula $QC(=U)NR^a$

wherein :

- Q represents a hydrogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_3-C_8-cycloalkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_2-C_8-alkynyloxy, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted C_2-C_8-alkenylsulfenyl, substituted or non-substituted C_2-C_8-alkynylsulfenyl, substituted or non-substituted arylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyl, substituted or non-substituted C_5-C_{12}-benzofused carbocyclyl, substituted or non-substituted C_5-C_{12}-benzofused heterocyclyl, substituted or non-substituted cycloalkoxy; substituted or non-substituted cycloalkenyloxy, substituted or non-substituted aryloxy; substituted or non-substituted heterocyclyloxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkoxy, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyloxy, substituted or non-substituted C_5-C_{12}-benzofused carbocyclyloxy, substituted or non-substituted C_5-C_{12}-benzofused heterocyclyloxy;
- U represents a oxygen atom or a sulfur atom;
- R^a represents a hydrogen atom, a hydroxy group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a substituted or non-substituted C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_3-C_{10}-cycloalkenyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkyl, substituted or non-substituted C_5-C_{12}-fused bicycloalkenyl, substituted or non-substituted aryl, or substituted or non-substituted heterocyclyl, substituted or non-substituted C_1-C_8-alkylcarbonyl, substituted or non-substituted aryloxycarbonyl, substituted or non-substituted C_1-C_8-alkoxycarbonyl;

- Z^2, Z^3 and Z^4 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, a C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy;

- Y^1 to Y^5 independently represent a hydrogen atom, a halogen atom, a nitro group, a a cyano group, a substituted or non-substituted carbaldehyde O-(C_1-C_8-alkyl)oxime, a pentafluoro-λ^6-sulfenyl group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted

C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-halogenoalkyl having 1 to 5 halogen atoms, a C_2-C_8-alkenyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_1-C_8-halogenoalkoxy having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_3-C_8-alkynyloxy, substituted or non-substituted N-(C_1-C_8-alkoxy)-C_1-C_8-alkanimidoyl, substituted or non-substituted N-(C_1-C_8-alkoxy)-C_1-C_8-halogenoalkanimidoyl having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkoxycarbonyl, substituted or non-substituted C_1-C_8-alkylcarbonyloxy, substituted or non-substituted C_1-C_8-alkylsulfinyl, substituted or non-substituted C_1-C_8-alkylsulfonyl, substituted or non-substituted phenoxy, substituted or non-substituted phenylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted tri(C_1-C_8-alkyl)-silyloxy, substituted or non-substituted tri(C_1-C_8-alkyl)-silyl, substituted or non-substituted heterocyclyl, substituted or non-substituted heterocyclyloxy ;

as well as salts, N-oxides, metallic complexes and metalloidic complexes thereof or (E) and (Z) isomers and mixtures thereof.

2. A compound according to claim 1 wherein X^1 represents a hydrogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl or a substituted or non-substituted C_2-C_8-alkenyl.

3. A compound according to claim 2 wherein X^1 represents a hydrogen atom, a methyl group, an ethyl group, a n-propyl group, an isopropyl group or a cyclopropyl group.

4. A compound according to anyone of claims 1 to 3 wherein A represents A^1.

5. A compound according to anyone of claims 1 to 4 wherein Z^1 represents a hydrogen atom, a halogen atom, a nitro group, an amino group, an hydroxyamino groupsubstituted or non-substituted C_1-C_8-alkoxyamino group, substituted or non-substituted C_1-C_8-alkylamino, substituted or non-substituted C_3-C_{10}-cycloalkylamino, substituted or non-substituted C_3-C_{10}-cycloalkenylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkylamino, substituted or non-substituted C_5-C_{12}-fused bicycloalkenylamino, substituted or non-substituted di-C_1-C_8-alkylamino, substituted or non-substituted phenylamino, substituted or non-substituted heterocyclylamino, or a group of formula $QC(=U)NR^a$-

6. A compound according to claim 5 wherein Z^1 represents an amino group, or a group of formula $QC(=U)NR^a$.

7. A compound according to anyone of claims 1 to 6 wherein U represents an oxygen atom

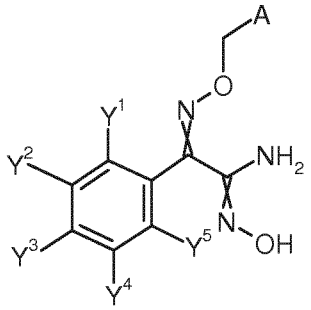
8. A compound according to anyone of claims 1 to 7 wherein R^a represents a hydrogen atom, a hydroxy group, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-alkoxy.

9. A compound according to anyone of claims 1 to 8 wherein Q represents a substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_2-C_8-alkynyl, substituted or non-substituted C_1-C_8-alkoxy, substituted or non-substituted C_2-C_8-alkenyloxy, substituted or non-substituted C_2-C_8-alkynyloxy, substituted or non-substituted C_1-C_8-alkylsulfenyl, substituted or non-substituted aryl, substituted or non-substituted heterocyclyl, substituted or non-substituted C_3-C_8-cycloalkoxy

10. A compound according to anyone of claims 1 to 9 wherein Z^2, Z^3 and Z^4 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl.

11. A compound according to anyone of claims 1 to 10 wherein Y^1 to Y^5 independently represent a hydrogen atom, a halogen atom, substituted or non-substituted C_1-C_8-alkyl, substituted or non-substituted C_3-C_8-cycloalkyl, substituted or non-substituted C_1-C_8-halogenoalkyl having 1 to 5 halogen atoms, substituted or non-substituted C_1-C_8-alkoxy.

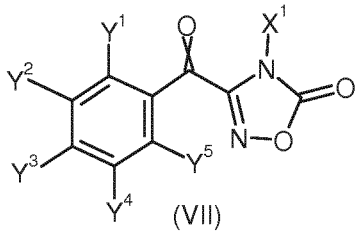
12. A compound of formula (V)



(V)

wherein A, Y^1, Y^2, Y^3, Y^4 and Y^5 are as defined in anyone of claims 1 to 11.

13. A compound of formula (VII)



(VII)

wherein Y^1, Y^2, Y^3, Y^4, Y^5 are as defined in anyone of claims 1 to 11 and X^1 represents substituted or non-substituted C_1-C_8-alkyl.

14. A fungicide composition comprising, as an active ingredient, an effective amount of a compound of formula (I) according to claims 1 to 11 and an agriculturally acceptable support, carrier or filler.

15. A fungicide composition according to claim 14 comprising at least one further active ingredient selected from the group of the insecticides, attractants, sterilants, bactericides, acaricides, nematicides, fungicides, growth regulators, herbicides, fertilizers, safeners, biologicals and semiochemicals.

16. A method for controlling phytopathogenic fungi of crops, characterized in that an agronomically effective and substantially non-phytotoxic quantity of a compound according to any one of claims 1 to 11 or a composition according to claim 14 or 15 is applied to the soil where plants grow or are capable of growing, to the leaves and/or the fruit of plants or to the seeds of plants.

17. Use of compounds of the formula (I) according to any one of claims 1 to 11 for control of phytopathogenic harmful fungi.

18. Process for producing compositions for controlling phytopathogenic harmful fungi, characterized in that derivatives of the formula (I) according to any one of claims 1 to 11 are mixed with extenders and/or surfactants.

19. Use of of compounds of the formula (I) according to any one of claims 1 to 11 for treatment of transgenic plants.

20. Use of compounds of the formula (I) according to any one of claims 1 to 11 for treatment of seed and of seed of transgenic plants.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2012/067596

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D213/73 C07D213/75 C07D231/16 C07D231/38 C07D277/40
C07D413/12 C07D417/12 C07D271/07 A01N43/836 A01P3/00
A01N43/82

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2009/130193 A1 (BAYER CROPSCIENCE SA [FR]; BEIER CHRISTIAN [FR]; BENTING JUERGEN [DE];) 29 October 2009 (2009-10-29) cited in the application page 1, paragraph 1 claims 1,20-21	1-20
A	EP 1 038 874 A1 (DAINIPPON INK & CHEMICALS [JP]; SAGAMI CHEM RES [JP] DAINIPPON INK & C) 27 September 2000 (2000-09-27) page 1, paragraph [0001] - paragraph [0006] claims 1,6-8	1-20

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
31 October 2012	07/11/2012

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Fanni, Stefano

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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2012/067596

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	WO 2011/080254 A2 (BAYER CROPSCIENCE AG; BEIER CHRISTIAN; BENTING JUERGEN; BERNIER DAVID;) 7 July 2011 (2011-07-07) page 1, paragraph 1 claims 1,20-22	1-20

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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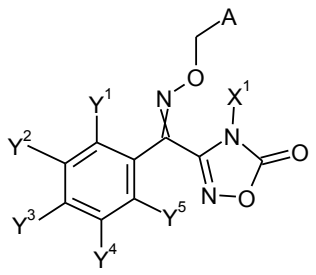
(81) Estados designados *(a menos que se indique otra cosa, para todo tipo de protección nacional disponible)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Estados designados *(a menos que se indique otra cosa, para todo tipo de protección regional disponible)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), euroasiática (AM, AZ, BY, KG, KZ, RU, TJ, TM), europea (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Declaración en virtud de la regla 4.17:
--- con relación al derecho del solicitante a solicitar y que se le conceda una patente (Regla 4.17(ii))
--- con relación al derecho del solicitante para reivindicar la prioridad de una solicitud anterior (Regla 4.17(iil))
--- del inventor (Regla 4.17(iv))

Publicada:
--- Con informe de búsqueda internacional *(Art. 21(3))*

(54) Título: DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4



(I)

(57) Resumen: La presente invención proporciona derivados funguicidas de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4 de fórmula (I) en donde A representa un grupo piridilo o tiazol y X1, Y1 a Y5 representan independientemente diferentes sustituyentes.

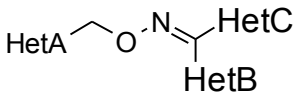
WO 2013/037717 A1

DERIVADOS FUNGICIDAS DE 3-{FENIL[(HETEROCICLILMETOXI)IMINO]METIL}-1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4

DESCRIPCIÓN

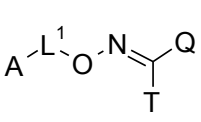
La presente invención se refiere a derivados de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4, su proceso de preparación, su uso como agentes fungicidas activos, particularmente en forma de composiciones fungicidas y métodos para el control de hongos fitopatógenos, particularmente de plantas, usando estos compuestos o composiciones.

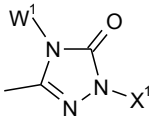
En la solicitud de patente Europea Nº 1184382, se describen determinados derivados de heterociclooxima de la siguiente estructura química:



que están excluidos del alcance de la presente invención.

En la solicitud de patente mundial WO2009/130193, se describen algunos derivados de hidroximoil-heterociclos de la estructura química siquiente:

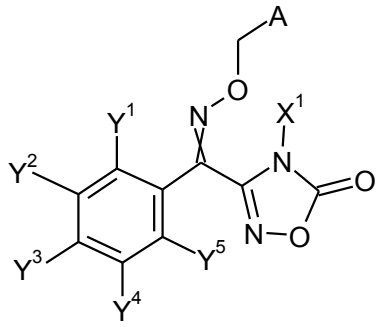


con T = 

, Q es un anillo fenilo, L1 un enlazante metileno y A un heterociclo.

Siempre es de gran interés en el campo de la agricultura, el uso de nuevos compuestos pesticidas con objeto de evitar el desarrollo de cepas resistentes a los ingredientes activos o luchar contra ellas. Es también de gran interés el uso de nuevos compuestos que sean más activos que los ya conocidos, con objeto de reducir las cantidades de compuesto activo que se han de utilizar, manteniendo al mismo tiempo una eficacia al menos equivalente a la de los compuestos ya conocidos. Se ha encontrado ahora una nueva familia de compuestos que poseen los efectos o las ventajas mencionadas anteriormente.

De acuerdo con esto, la presente invención proporcionan derivados de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4 de fórmula (I)

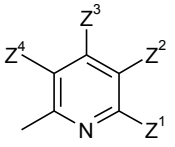


(I)

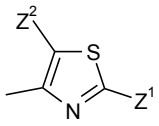
en la que

- X^1 representa un átomo de hidrógeno, un grupo formilo, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquenilo-C_2-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alquil-C_1-C_8-carbonilo sustituido o sin sustituir;

- A se selecciona de la lista que consiste en A^1 y A^2:



A1



A2

en la que

- Z^1 representa un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, un grupo amino, un grupo hidroxiamino, un grupo ciano, un grupo ácido carboxílico, un grupo alcoxiamoni-C_1-C_8 sustituido o sin sustituir, alquilamino-C_1-C_8 sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquilamino-C_1-C_8 sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir o un grupo de fórmula $QC(=U)NR^a$

  - en donde:

  - Q representa un átomo de hidrógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8 sustituido o sin sustituir, cicloalquenilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiniloxi-C_2-C_8 sustituido o sin sustituir, alquilamino-C_1-C_8 sustituido o sin sustituir, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, alquenil-C_2-C_8-sulfenilo sustituido o sin sustituir, alquinil-C_2-C_8-sulfenilo sustituido o sin sustituir, arilsulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, bicicloalquilo-C_5-C_{12} condensado sustituido o sin sustituir, bicicloalquenilo-C_5-C_{12} condensado sustituido o sin sustituir, carbociclilo-C_5-C_{12} benzocondensado sustituido o sin sustituir, heterociclilo-C_5-C_{12} benzocondensado sustituido o sin sustituir, cicloalcoxi sustituido o sin sustituir; cicloalqueniloxi sustituido o sin sustituir, ariloxi sustituido o sin sustituir; heterocicliloxi sustituido o sin sustituir, bicicloalcoxi-C_5-C_{12}

condensado sustituido o sin sustituir, bicicloalqueniloxi-C_5-C_{12} condensado sustituido o sin sustituir, carbocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir, heterocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir;

- U representa un átomo de oxígeno o un átomo de azufre;
- R^a representa un átomo de hidrógeno, un grupo hidroxi, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, cicloalquenilo-C_3-C_{10} sustituido o sin sustituir, bicicloalquilo-C_5-C_{12} condensado sustituido o sin sustituir, bicicloalquenilo-C_5-C_{12} condensado sustituido o sin sustituir, arilo sustituido o sin sustituir, o heterociclilo sustituido o sin sustituir, alquilcarbonilo-C_1-C_8 sustituido o sin sustituir, ariloxicarbonilo sustituido o sin sustituir, alcoxicarbonilo-C_1-C_8 sustituido o sin sustituir;
- Z^2, Z^3 y Z^4 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir;

- Y^1 a Y^5 representan independientemente un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, a un grupo ciano, un carbaldehído O-(alquilo-C_1-C_8)oxima sustituido o sin sustituir, un grupo pentafluoro-λ^6-sulfenilo, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, halogenoalquilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, un alquenilo-C_2-C_8, un alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, halogenoalcoxi-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alquilsulfenilo-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiloxi-C_3-C_8-sustituido o sin sustituir, N-(alcoxi-C_1-C_8)-alcanimidoilo-C_1-C_8 sustituido o sin sustituir, N-(alcoxi-C_1-C_8)-halogenoalcanimidoilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alcoxi-C_1-C_8-carbonilo sustituido o sin sustituir, alquil-C_1-C_8-carboniloxi sustituido o sin sustituir, alquil-C_1-C_8-sulfinilo sustituido o sin sustituir, alquil-C_1-C_8-sulfonilo sustituido o sin sustituir, fenoxi sustituido o sin sustituir, fenilsulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, tri(alquil-C_1-C_8)-sililoxi sustituido o sin sustituir, tri(alquil-C_1-C_8)-sililo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, heterocicliloxi sustituido o sin sustituir;

así como sus sales, N-óxidos, complejos metálicos y complejos metaloides, o sus isómeros (E) y (Z) y sus mezclas.

Cualquiera de los compuestos de acuerdo con la invención puede existir en forma de uno o más estereoisómeros dependiendo del número de unidades estereogénicas (como se define por las reglas de la IUPAC) en el compuesto. Por lo tanto, la invención se refiere de la misma manera a todos los estereoisómeros, y a las mezclas de todos los estereoisómeros posibles, en todas las proporciones. Los estereoisómeros se pueden separar de acuerdo con los métodos que se conocen *per se* por el experto en la materia.

Particularmente, la estereoestructura del resto oxima presente en el derivado de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituido en 4 de fórmula (I) incluye el isómero (E) o (Z), y estos estereoisómeros forman parte de la presente invención.

Conforme a la invención, se usan en general las expresiones genéricas siguientes, con los siguientes significados:

- halógeno se refiere a: flúor, cloro, bromo o yodo;
- heteroátomo puede ser nitrógeno, oxígeno o azufre;
- a menos que se indique otra cosa, un grupo o un sustituyente que está sustituido de acuerdo con la invención puede estar sustituido con uno o más de los siguientes grupos o átomos: un átomo de halógeno, un grupo nitro, un grupo hidroxi, un grupo ciano, un grupo amino, un grupo sulfenilo, un grupo pentafluoro-l^6-sulfenilo, un grupo formilo, un carbaldehído O-(alquil C_1-C_8)oxima, un grupo formiloxi, un grupo formilamino, un grupo formilamino, un grupo (hidroxiimino)-alquilo-C_1-C_6, un grupo alquilo-C_1-C_8, un tri(alquil C_1-C_8)sililo, cicloalquilo-C_3-C_8, cicloalquenilo-C_3-C_8, a halogenoalquilo-C_1-C_8 que tiene de 1 a 5 átomos de halógeno, un halogenocicloalquilo-C_1-C_8 que tiene de 1 a 5 átomos de halógeno, un alquenilo-C_2-C_8, un alquinilo-C_2-C_8, un alqueniloxi C_2-C_8, un alquiniloxi-C_2-C_8, un alquilamino C_1-C_8, un di-alquil-C_1-C_8-amino, un alcoxi-C_1-C_8, un halogenoalcoxi-C_1-C_8 que tiene de 1 a 5 átomos de halógeno, un alquil-C_1-C_8-sulfenilo, un halogenoalquil-C_1-C_8-sulfenilo que tiene de 1 a 5 átomos de halógeno, un halogenoalqueniloxi-C_2-C_8 que tiene de 1 a 5 átomos de halógeno, un halogenoalquiniloxi-C_3-C_8 que tiene de 1 a 5 átomos de halógeno, un alquil-C_1-C_8-carbonilo, un halogenoalquil-C_1-C_8-carbonilo que tiene de 1 a 5 átomos de halógeno, un alquil-C_1-C_8-carbamoílo, un di-alquil-C_1-C_8-carbamoílo, un N-alquiloxi-C_1-C_8-carbamoílo, un alcoxi-C_1-C_8-carbamoílo, un N-alquil-C_1-C_8-alcoxi-C_1-C_8-carbamoílo, un alcoxi-C_1-C_8-carbonilo, un halogenoalcoxi-C_1-C_8-carbonilo que tiene de 1 a 5 átomos de halógeno, un alquil-C_1-C_8-carboniloxi, un halogenoalquil-C_1-C_8-carboniloxi que tiene de 1 a 5 átomos de halógeno, un alquil-C_1-C_8-carbonilamino, un halogenoalquil-C_1-C_8-carbonilamino que tiene de 1 a 5 átomos de halógeno, alcoxi-C_1-C_8-carbonilamino, halogenoalcoxi-C_1-C_8-carbonilamino que tiene de 1 a 5 átomos de halógeno, un alquilamino-C_1-C_8-carboniloxi, un di-alquilamino-C_1-C_8-carboniloxi, un alquiloxi-C_1-C_8-carboniloxi, un (alcoxi-C_1-C_6-imino)-alquilo-C_1-C_6, un (alqueniloxi-C_1-C_6-imino)-alquilo-C_1-C_6, un (alquiniloxi-C_1-C_6-imino)-alquilo-C_1-C_6, (benciloxiimino)-alquilo-C_1-C_6, alcoxialquilo-C_1-C_8, halogenoalcoxialquilo-C_1-C_8 que tiene de 1 a 5 átomos de halógeno, benciloxi, bencilsulfenilo, bencilamino, fenoxi, fenilsulfenilo, o fenilamino, un grupo arilo, un grupo heterociclilo; o
- un grupo o un sustituyente que está sustituido según la invención puede estar sustituido de forma que los grupos sustituyentes forman juntos un ciclo de 3, 4, 5, 6, 7, 8, 9, 10 u 11 miembros sustituido o sin sustituir, saturado o parcialmente saturado, que puede ser un carbociclo o un heterociclo que comprende hasta 4 heteroátomos seleccionados de la lista que consiste en N, O y S
- el término "arilo” se refiere a fenilo o naftilo;

- el término “heterociclilo” significa un anillo de 4, 5, 6, 7, 8, 9, 10, 11 o 12 miembros, condensado o sin condensar, saturado o insaturado, que comprende hasta 4 heteroátomos seleccionados de la lista que consiste en N, O, S.

Los compuestos preferidos de fórmula (I) según la invención son aquellos en donde X^1 representa un átomo de hidrógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8-sustituido o sin sustituir o un alquenilo-C_2-C_8 sustituido o sin sustituir.

Los compuestos más preferidos de fórmula (I) según la invención son aquellos en donde X^1 representa un átomo de hidrógeno, un grupo metilo, un grupo etilo, un grupo n-propilo, un grupo isopropilo o un grupo ciclopropilo.

Compuestos incluso más preferidos de la fórmula (I) según la invención son aquellos en los que X^1 representa un átomo de hidrógeno o un grupo metilo.

Otros compuestos preferidos de fórmula (I) según la invención son aquellos en los que A representa A^1.

Otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde Z^1 representa un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, un grupo amino, un grupo hidroxiamino, un grupo alcoxi-C_1-C_8-amino sustituido o sin sustituir, alquilamino-C_1-C_8 sustituido o sin sustituir, cicloalquilamino-C_3-C_{10} sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquilamino-C_1-C_8 sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir o un grupo de fórmula $QC(=U)NR^a$

Los compuestos más preferidos de fórmula (I) según la invención son aquellos en donde Z^1 representa un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, un grupo amino, un grupo alcoxi-C_1-C_8-amino sustituido o sin sustituir, alquil-C_1-C_8-amino sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir o un grupo de fórmula $QC(=U)NR^a$.

Compuestos incluso más preferidos de fórmula (I) según la invención son aquellos en donde Z^1 representa un grupo amino, o un grupo de fórmula $QC(=U)NR^a$.

Cuando Z^1 representa un grupo de fórmula $QC(=U)NR^a$, otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde U representa un átomo de oxígeno.

Cuando Z^1 representa un grupo de fórmula $QC(=U)NR^a$, otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde R^a representa un átomo de hidrógeno, un grupo hidroxi, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir.

Cuando Z^1 representa un grupo de fórmula $QC(=U)NR^a$, otros compuestos más preferidos de fórmula (I) según la invención son aquellos en donde R^a representa un átomo de hidrógeno.

Cuando Z^1 representa un grupo de fórmula $QC(=U)NR^a$, otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde Q representa un alquilo- C_1-C_8 sustituido o sin sustituir,

cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiniloxi-C_2-C_8 sustituido o sin sustituir, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, cicloalcoxi-C_3-C_8 sustituido o sin sustituir.

Cuando Z^1 representa un grupo de fórmula QC(=U)NR^a, los compuestos más preferidos de fórmula (I) según la invención son aquellos en donde Q representa un alquilo- C_4-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_4-C_8 sustituido o sin sustituir, alcoxi-C_4-C_8 sustituido o sin sustituir, alqueniloxi-C_4-C_8 sustituido o sin sustituir, alquiniloxi-C_4-C_8 sustituido o sin sustituir, alquil-C_3-C_8-sulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir.

Cuando Z^1 representa un grupo de fórmula QC(=U)NR^a, compuestos incluso más preferidos de fórmula (I) según la invención son aquellos en donde Q representa un alquilo-C_4-C_8 sustituido o sin sustituir, alquinilo-C_4-C_8 sustituido o sin sustituir, alcoxi-C_4-C_8 sustituido o sin sustituir, alqueniloxi-C_4-C_8 sustituido o sin sustituir, alquiniloxi-C_4-C_8 sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir.

Cuando Z^1 representa un grupo de fórmula QC(=U)NR^a, y cuando Q representa un alquilo-C_4-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_4-C_8 sustituido o sin sustituir, alcoxi-C_4-C_8 sustituido o sin sustituir, alqueniloxi-C_4-C_8 sustituido o sin sustituir, alquiniloxi-C_4-C_8 sustituido o sin sustituir, alquil-C_3-C_8-sulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde los sustituyentes se eligen de la lista de un átomo de halógeno, un grupo ciano, un grupo (hidroxiimino)-alquilo-C_1-C_6, un alquilo-C_1-C_8, cicloalquilo-C_3-C_8, un alquenilo-C_2-C_8, un alquinilo-C_2-C_8, un alqueniloxi-C_2-C_8, un alquiniloxi-C_2-C_8, un alcoxi-C_1-C_8, un alquil-C_1-C_8-sulfenilo, un (alcoxi-C_1-C_6-imino)-alquilo-C_1-C_6, un (alqueniloxi-C_1-C_6-imino)-alquilo-C_1-C_6, un (alquiniloxi-C_1-C_6-imino)-alquilo-C_1-C_6, (benciloxiimino)-alquilo-C_1-C_6, alcoxialquilo-C_1-C_8, benciloxi, bencilsulfenilo, fenoxi, fenilsulfenilo, un grupo arilo o un grupo heterociclilo, o en donde los sustituyentes forman juntos un ciclo de 3, 4, 5, 6, 7, 8, 9, 10 u 11 miembros sustituido o sin sustituir, saturado o parcialmente saturado, que puede ser un carbociclo o un heterociclo que comprende hasta 4 heteroátomos seleccionados de la lista que consiste en N, O y S.

Cuando Z^1 representa un grupo de fórmula QC(=U)NR^a, y cuando Q representa un alquilo-C_4-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_4-C_8 sustituido o sin sustituir, alcoxi-C_4-C_8 sustituido o sin sustituir, alqueniloxi-C_4-C_8 sustituido o sin sustituir, alquiniloxi-C_4-C_8 sustituido o sin sustituir, alquil-C_3-C_8 sulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, los compuestos más preferidos de fórmula (I) según la invención son aquellos en donde los sustituyentes se eligen de las lista de un átomo de halógeno, un grupo ciano, un grupo (hidroxiimino)-alquilo-C_1-C_6, un alquilo-C_1-C_8, cicloalquilo-C_3-C_8, un alquenilo-C_2-C_8, un alquinilo-C_2-C_8, un alqueniloxi-C_2-C_8, un alquiniloxi-C_2-C_8, un alcoxi-C_1-C_8, un alquil-C_1-C_8-sulfenilo, (benciloxiimino)-alquilo-C_1-C_6, alcoxialquilo-C_1-C_8, benciloxi, fenoxi, un grupo arilo o un grupo heterociclilo o en donde los sustituyentes forman juntos un ciclo de 3, 4, 5 o 6

miembros saturado o parcialmente saturado, que puede ser un carbociclo o un heterociclo que comprende hasta 4 heteroátomos seleccionados de la lista que consiste en N, O y S.

Otros compuestos preferidos de la fórmula (I) de acuerdo con la invención son aquellos en los que Z^2, Z^3 y Z^4 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo C_1-C_8 sustituido o sin sustituir.
Los compuestos más preferidos de fórmula (I) según la invención son aquellos en los que Z^2, Z^3 y Z^4 representan independientemente un átomo de hidrógeno.

Otros compuestos preferidos de fórmula (I) según la invención son aquellos en donde Y^1 a Y^5 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, halogenoalquilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alcoxi-C_1-C_8 sustituido o sin sustituir.
Los compuestos más preferidos de fórmula (I) según la invención son aquellos en donde Y^1 a Y^5 representan independientemente un átomo de hidrógeno, un átomo de halógeno, metilo, etilo, isopropilo, isobutilo, tercbutilo, trifluorometilo, difluorometilo, alilo, etinilo, propargilo, ciclopropilo, metoxi o trifluorometoxi.
Compuestos incluso más preferidos de fórmula (I) según la invención son aquellos en donde Y^1 a Y^5 representan independientemente un átomo de hidrógeno o un átomo de flúor.

Las preferencias mencionadas anteriormente con respecto a los sustituyentes de los compuestos de la fórmula (I) de acuerdo con la invención pueden combinarse de diversas maneras. Estas combinaciones de características preferidas proporcionan de esta manera subclases de compuestos de acuerdo con la invención. Los ejemplos de dichas subclases de compuestos preferidos de acuerdo con la invención pueden combinar:

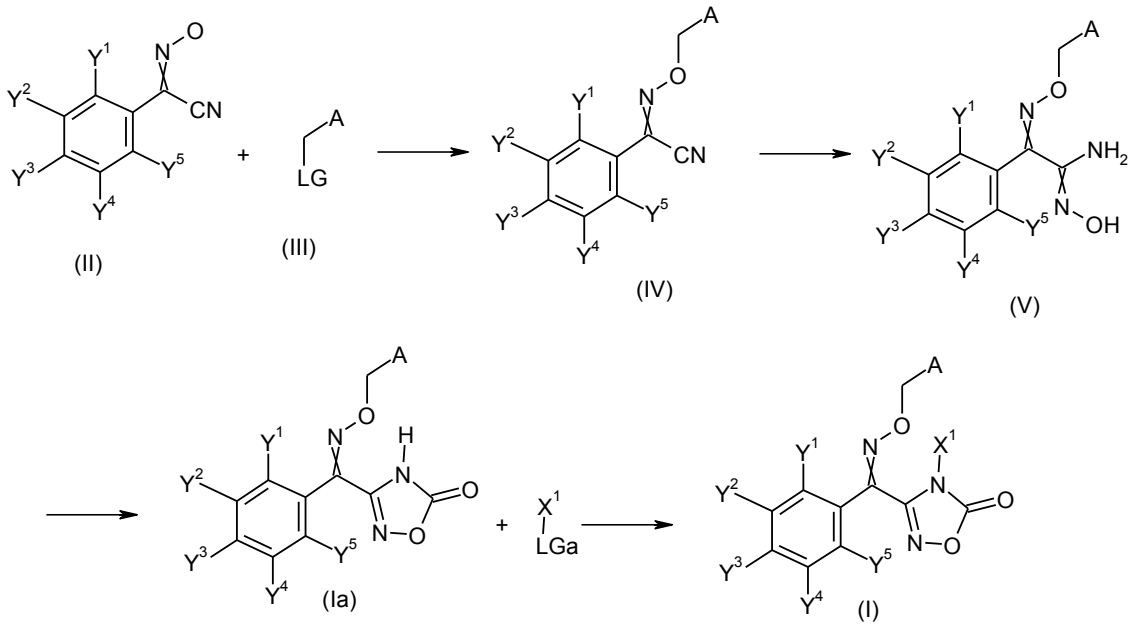
- características preferidas de A con características preferidas de uno o más de X^1, Y^1 a Y^5 y Z^1 a Z^4;
- características preferidas de X^1 con características preferidas de uno o más de A, Y^1 a Y^5 y Z^1 a Z^4;
- características preferidas de Y^1 con características preferidas de uno o más de A, X^1, Y^2 a Y^5 y Z^1 a Z^4;
- características preferidas de Y^2 con características preferidas de uno o más de A, X^1, Y^1, Y^3 a Y^5 y Z^1 a Z^4;
- características preferidas de Y^3 con características preferidas de uno o más de A, X^1, Y^1,Y^2 ,Y^4, Y^5 y Z^1 a Z^4;
- características preferidas de Y^4 con características preferidas de uno o más de A, X^1, Y^1 a Y^3, Y^5 y Z^1 a Z^4;

- características preferidas de Y^5 con características preferidas de uno o más de A, X^1, Y^1 a Y^4 y Z^1 a Z^4;
- características preferidas de Z^1 con características preferidas de uno o más de X^1, Y^1 a Y^5, A y Z^2 a Z^4;
- características preferidas de Z^2 con características preferidas de uno o más de X^1, Y^1 a Y^5, A, Z^1 y Z^3 a Z^4;
- características preferidas de Z^3 con características preferidas de uno o más de X^1, Y^1 a Y^5, A, Z^4 y Z^1 a Z^2;
- características preferidas de Z^4 con características preferidas de uno o más de X^1, Y^1 a Y^5, A y Z^1 a Z^3;

En estas combinaciones de rasgos preferidos de los sustituyentes de los compuestos acordes con la invención, dichos rasgos preferidos también se pueden seleccionar entre los rasgos más preferidos de cada uno de A, X^1, Y^1 a Y^5 y Z^1, para formar las subclases más preferidas de compuestos según la invención.

La presente invención también se refiere a un proceso para la preparación de compuestos de fórmula (I). Así, según un aspecto adicional de la presente invención, se proporciona un proceso P1 para la preparación de compuestos de fórmula (I) a partir de compuestos de fórmula (II), por reacción de sustitución nucleófila sobre compuestos de fórmula (III) para proporcionar un compuesto de fórmula (IV), según métodos conocidos, opcionalmente en presencia de una base, según métodos conocidos; seguido de la adición de hidroxilamina o una sal de hidroxilamina sobre compuestos de fórmula (IV) para proporcionar un compuesto de fórmula (V), opcionalmente en presencia de una base, opcionalmente en presencia de un ácido, según métodos conocidos; seguido de una reacción de ciclación de compuestos de fórmula (V) para proporcionar un compuesto de fórmula (Ia), con un equivalente de fosgeno, opcionalmente en presencia de una base, según métodos conocidos; seguido de una reacción de alquilación de compuestos de fórmula (Ia) para proporcionar un compuesto de fórmula (I), con un agente alquilante de fórmula X^1-LGa, opcionalmente en presencia de una base, según métodos conocidos.

En tal caso, se proporciona un proceso P1 de acuerdo con la invención y dicho proceso P1 puede ilustrarse por el siguiente esquema de reacción:



Proceso P1

en donde Y^1, Y^2, Y^3, Y^4, Y^5, A y X^1 son como se definen en la presente memoria y LG y LGa representan independientemente un grupo saliente. Los grupos salientes adecuados pueden seleccionarse entre la lista que consiste en un átomo de halógeno u otros grupos nucleófugos convencionales tales como triflato, mesilato o tosilato.

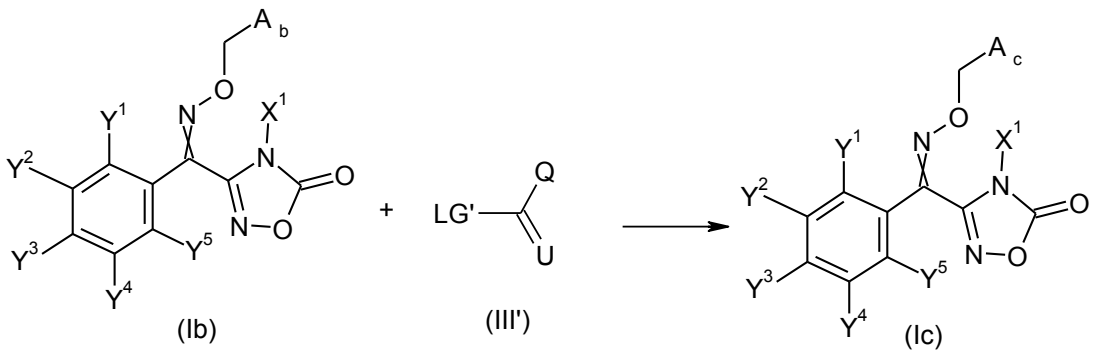
Los ácidos adecuados para la transformación de los compuestos de fórmula (IV) en compuestos de fórmula (V) se puede elegir entre un ácido mineral tal como cloruro de hidrógeno y ácido sulfúrico, y un ácido orgánico tal como ácido fórmico y ácido acético.

El equivalente de fosgeno adecuado para la conversión de compuestos de fórmula (V) en un compuesto de fórmula (I) se pueden elegir entre fosgeno, difosgeno, trifosgeno, carbonil di-imidazol, un derivado de cloroformato, tal como cloroformato de etilo y cloroformato de 4-nitrofenoxi.

Los compuestos de fórmula (II) y (III) están disponibles comercialmente o son fácilmente accesibles a los expertos en la materia. Se pueden encontrar ejemplos de preparación en la solicitud de patente mundial WO2009/130193. Los compuestos de fórmula X^1-LGa están comercialmente disponibles.

Según la invención, se proporciona un proceso P2 adicional para la preparación de compuestos de fórmula (Ic) a partir de compuestos de fórmula (Ib).

Para los compuestos de fórmula (Ib) según la invención si Z^1 representa -NHR^a, el proceso P1 según la invención se puede completar mediante una etapa adicional que comprende la modificación adicional de este grupo, particularmente mediante reacción de acilación, alcoxicarbonilación, alquilaminocarbonilación, (tio)acilación, alcoxi(tio)carbonilación, alquilsufenil(tio)carbonilación o alquilamino(tio)carbonilación para proporcionar un compuesto de fórmula (Ic), según métodos conocidos. En tal caso se proporciona un proceso P2 según la invención y tal procedimiento P2 puede ser ilustrado mediante el siguiente esquema de reacción:



Proceso P2

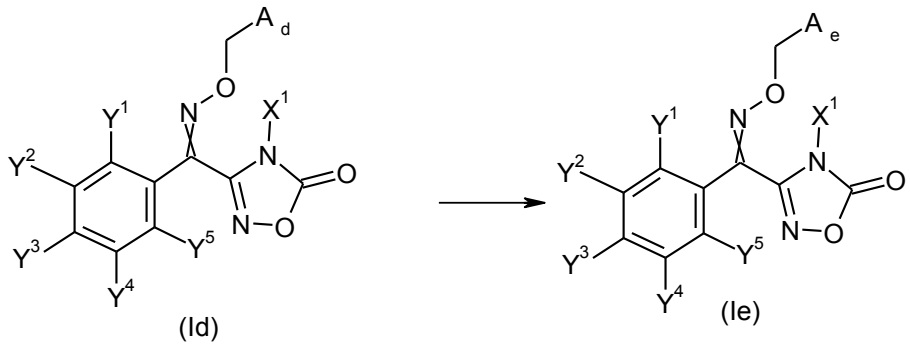
en la que

Y^1, Y^2, Y^3, Y^4, Y^5, X^1, U, R^a y Q son como se definen en la presente memoria y A_b representa A en donde Z^1 representa -NHR^a; A_c representa A en donde Z^1 representa un grupo de fórmula $QC(=U)NR^a$ y LG' representa un grupo saliente.

Los grupos salientes adecuados se pueden seleccionar en la lista que consiste en un átomo de halógeno u otros grupos nucleófugos habituales, tales como alcoholato, hidróxido o cianuro.

Según la invención, se proporciona un proceso P3 para la preparación de compuestos de fórmula (Ie) a partir de compuestos de fórmula (Id) por una sustitución nucleófila para proporcionar un compuestos de fórmula (Ie), según métodos conocidos, opcionalmente en presencia de un catalizador, en particular un catalizador de metal de transición, tal como sales o complejos de paladio, por ejemplo, cloruro de paladio (II), acetato de paladio (II), tetraquis-(trifenilfosfina)paladio (0), dicloruro de bis-(trifenilfosfina)paladio (II), tris(dibencilidenoacetona)dipaladio (0), bis(dibencilidenoacetona) paladio (0) o cloruro de 1,1'-bis(difenilfosfino)ferroceno-paladio (II). Como alternativa, el complejo de paladio se genera directamente en la mezcla de reacción añadiendo por separado a la mezcla de reacción una sal de paladio y un ligando complejo tal como una fosfina, por ejemplo trietilfosfina, tri-terc-butilfosfina, triciclohexilfosfina, 2-(diciclohexilfosfina)bifenilo, 2-(di-terc-butilfosfina)bifenilo, 2-(diciclohexilfosfina)-2'-(N,N-dimetilamino)-bifenilo, trifenilfosfina, tris-(o-tolil)fosfina, 3-(difenilfosfino)benzolsulfonato sódico, tris-2-(metoxifenil)fosfina, 2,2'-bis-(difenilfosfina)-1,1'-binaftilo, 1,4-bis-(difenilfosfina)butano, 1,2-bis-(difenilfosfina)etano, 1,4-bis-(diciclohexilfosfina)butano, 1,2-bis-(diciclohexilfosfina)etano, 2-(diciclohexilfosfina)-2'-(N,N-dimetilamino)-bifenilo, bis(difenilfosfino)ferroceno, tris-(2,4-terc-butilfenil)-fosfito, (R)-(-)-1-[(S)-2-(difenilfosfino)ferrocenil]etildi-terc-butilfosfina, (S)-(+)-1-[(R)-2-(difenilfosfino)ferrocenil]etildiciclohexilfosfina, (R)-(-)-1-[(S)-2-(difenilfosfino)ferrocenil]etildiciclohexilfosfina, (S)-(+)-1-[(R)-2-(difenilfosfino)ferrocenil]etildi-t-butilfosfina, opcionalmente en presencia de una base tal como una base inorgánica u orgánica; preferiblemente un hidruro, hidróxido, amida, alcoholato, acetato, carbonato o bicarbonato de metal alcalinotérreo o de metal alcalino, tal como hidruro sódico, amida sódica, diisopropilamida de litio, metanolato sódico, etanolato sódico, terc-butanolato potásico, acetato sódico, acetato potásico, acetato cálcico, hidróxido sódico, hidróxido potásico, carbonato sódico, carbonato potásico, bicarbonato potásico, bicarbonato sódico, carbonato de cesio o carbonato amónico; y también amina terciaria, tal como trimetilamina, trietilamina (TEA), tributilamina, N,N-dimetilanilina,

N,N-dimetil-bencilamina, N,N-diisopropil-etilamina (DIPEA), piridina, N-metilpiperidina, N-metilmorfolina, N,N-dimetilaminopiridina, diazabiciclooctano (DABCO), diazabiciclononeno (DBN) o diazabicicloundeceno (DBU), de acuerdo con métodos conocidos. En tal caso se proporciona un proceso P3 según la invención y tal procedimiento P3 puede ser ilustrado mediante el siguiente esquema de reacción:



(Id) (Ie)

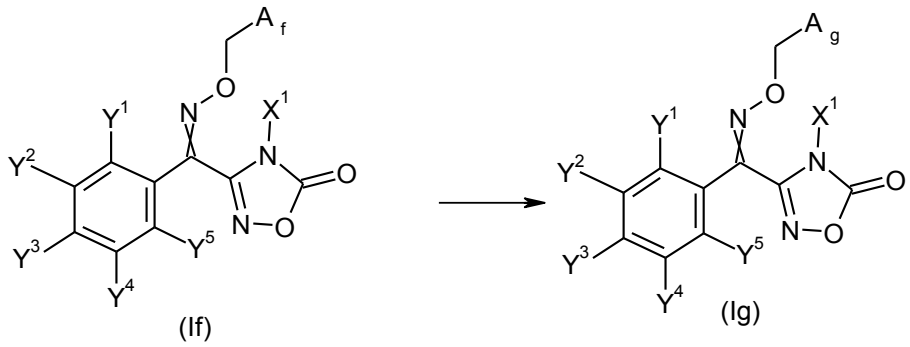
Proceso P3

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5 y X^1 son como se definen en la presente memoria y A_d representa A en donde Z^1 representa un átomo de halógeno; A_e representa A en donde Z^1 representa un grupo amino, un grupo ciano, un grupo alcoxiamino-C_1-C_8 sustituido o sin sustituir, alquilamino-C_1-C_8 sustituido o sin sustituir, cicloalquilamino-C_3-C_{10} sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir, o un grupo de fórmula $QC(=O)NHR^a$.

Según la invención, se proporciona un proceso P4 adicional para la preparación de compuestos de fórmula (Ig) a partir de compuestos de fórmula (If).

Para los compuestos de fórmula (If) según la invención, A_f representa A en donde Z^1 representa un grupo de fórmula $QC(=O)NR^a$, el proceso P1 según la invención se puede completar mediante una etapa adicional que comprende la modificación adicional de este grupo, particularmente mediante reacción de tiocarbonilación en presencia de un agente tiocarbonilante tal como 2,4-disulfuro de 2,4-bis(4-metoxifenil)-1,3,2,4-ditiadifosfetano, pentasulfuro de fósforo, azufre, para proporcionar un compuesto de fórmula (Ig), según métodos conocidos. En tal caso, se proporciona un proceso P4 de acuerdo con la invención y dicho proceso P4 puede ilustrarse por el siguiente esquema de reacción:



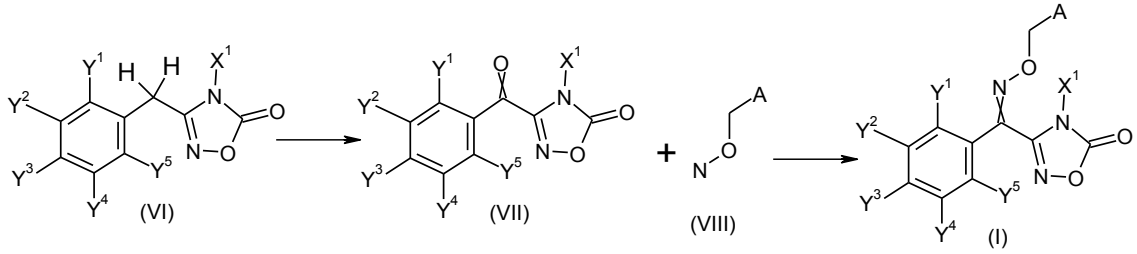
(If) (Ig)

Proceso P4

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1, R^a y Q son como se definen en la presente memoria;
- A_f representa A en donde Z^1 representa un grupo de fórmula $QC(=O)NR^a$
- y A_g representa A en donde Z^1 representa un grupo de fórmula $QC(=S)NR^a$.

La presente invención también se refiere a un proceso para la preparación de compuestos de fórmula (I). Así, según un aspecto adicional de la presente invención, se proporciona un proceso P5 para la preparación de compuestos de fórmula (I) a partir de compuestos de fórmula (VI), por reacción de compuestos de oxidación de fórmula (VI) en presencia de un agente oxidante adecuado para proporcionar un compuesto de compuestos de fórmula (VII), seguido de una condensación de compuestos de fórmula (VIII), opcionalmente con radiación de microondas, opcionalmente en presencia de un agente deshidratante, tal como tamices moleculares, para proporcionar compuestos de fórmula (I), según métodos conocidos. En tal caso, se proporciona un proceso P5 de acuerdo con la invención y dicho proceso P5 puede ilustrarse por el siguiente esquema de reacción:



(VI) (VII) (VIII) (I)

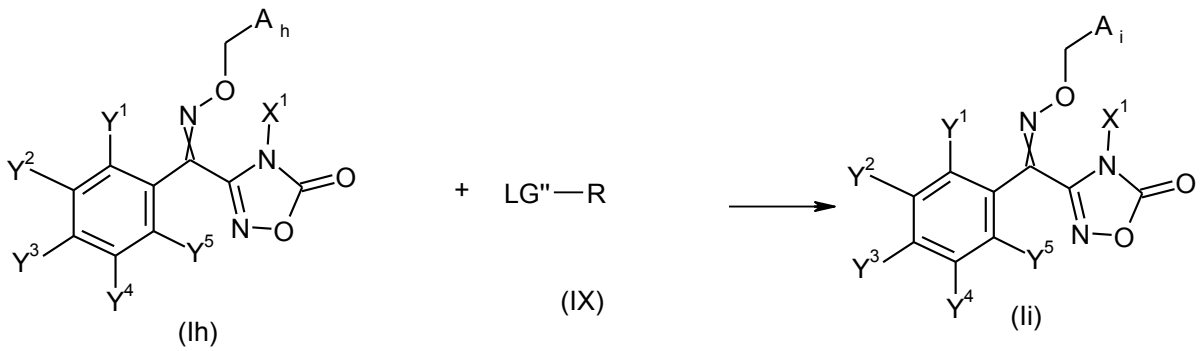
Proceso P5

en donde Y^1, Y^2, Y^3, Y^4, Y^5, A y X^1 son como se definen en la presente memoria.

Ejemplos de oxidaciones en la posición metileno entre un anillo fenilo y un heterociclo para proporcionar un sustituyente oxo se conocen y se pueden encontrar por ejemplo en Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (12), 2995-3006. Los agentes oxidantes adecuados para llevar a cabo la primera etapa del proceso P5 según la invención pueden ser inorgánicos y orgánicos tales como peróxido de hidrógeno y peróxido de benzoílo, óxidos metálicos y metaloides tales como óxido de manganeso (IV), óxido de cromo (VI), oxígeno opcionalmente en presencia de activador de oxígeno singlete, agentes halogenantes en un medio acuoso tal como tal como lejía.

Los compuestos de fórmula (VI) son de fácil acceso para el experto en la materia. Se pueden encontrar ejemplos de preparación en Annali di Chimica (Roma, Italia), (1963), 53(10), 1405-10
Se pueden encontrar ejemplos de condensaciones de compuestos de fórmula (VIII) con compuestos de fórmula (VIII) en la solicitud de patente mundial WO2010/ 000841.
Los compuestos de fórmula (VIII) son de fácil acceso para el experto en la materia. Se pueden encontrar ejemplos de preparación en la solicitud de patente mundial WO2010/000841.

De acuerdo con la invención, se proporciona un proceso adicional P6 para la preparación de compuestos de fórmula (Ii) a partir de compuestos de fórmula (Ih), por una reacción de alquilación, según métodos conocidos. En tal caso, se proporciona un proceso P6 de acuerdo con la invención y dicho proceso P6 puede ilustrarse por el siguiente esquema de reacción:



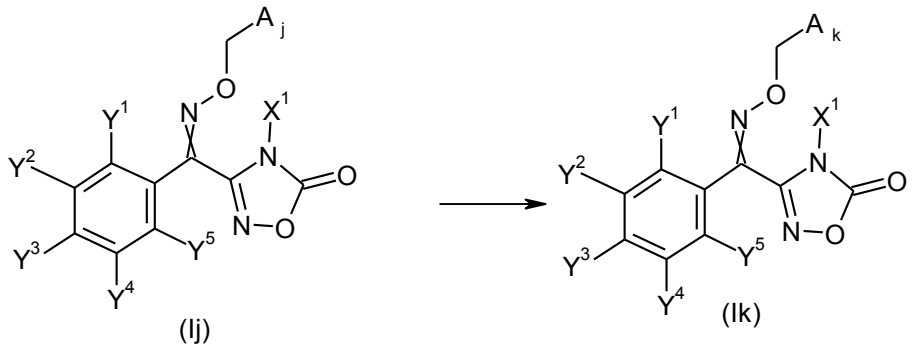
Proceso P6

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 son como se definen en la presente memoria
- A_h representa A en donde Z^1 representa un amino, alquilamino-C_1-C_8- sustituido o sin sustituir o un grupo de fórmula -NHC(=O)Q en donde Q es como se define en la presente memoria
- A_i representa A en donde Z^1 representa alquil-C_1-C_8-amino sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir, o un grupo de fórmula QC(=U)NR
- R representa alquilo-C_1-C_8 opcionalmente sustituido, alquenilo-C_2-C_8, alquinilo-C_2-C_8, cicloalquilo-C_3-C_{10}, cicloalquenilo-C_3-C_{10}, bicicloalquilo-C_3-C_{10} condensado, bicicloalquenilo-C_5-C_{12} condensado
- LG" representa un grupo saliente.

Los grupos salientes adecuados se pueden seleccionar en la lista que consiste en un átomo de halógeno u otros grupos nucleófugos habituales, tales como alcoholato, hidróxido o cianuro.

De acuerdo con la invención, se proporciona un proceso adicional P7 para la preparación de compuestos de fórmula (Ik) a partir de compuestos de fórmula (II), por una reacción de desprotección, de acuerdo con métodos conocidos. En tal caso, se proporciona un proceso P7 de acuerdo con la invención y dicho proceso P7 puede ilustrarse por el siguiente esquema de reacción:



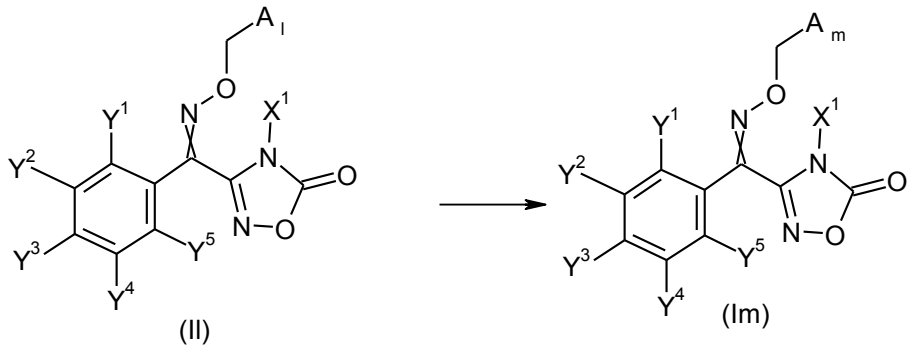
Proceso P7

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 son como se definen en la presente memoria
- A_j representa A en donde Z^1 representa un grupo de fórmula $Z^1{}_a$-PG en donde $Z^1{}_a$ representa un alcoxi-C_1-C_8-amino sustituido o sin sustituir, alquil-C_1-C_8-amino sustituido o sin sustituir, un alquenil-C_2-C_8-amino a sustituido o sin sustituir, alquinil-C_2-C_8-amino sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir y PG representa un grupo protector tal como un grupo formilo, alquil-C_1-C_8-carbonilo, alcoxi-C_1-C_8-carbonilo, alcoxi-C_1-C_8-alquilo-C_1-C_2, tri(alquil-C_1-C_8)silil-C_1-C_2-alquilo, tri(alquil-C_1-C_8)sililoxi-C_1-C_2-alquilo;
- A_k representa A en donde Z^1 representa $Z^1{}_a$;

Los grupos protectores de amino y métodos relacionados de escisión de los mismos son conocidos y pueden encontrarse en T.W. Greene y P.G.M. Wuts, *Protective Group in Organic Chemistry*, 3ª ed., John Wiley & Sons.

De acuerdo con la invención, se proporciona un proceso adicional P8 para la preparación de compuestos de fórmula (Im) a partir de compuestos de fórmula (II), por una reacción de amino-reducción, en presencia de un agente reductor, tal como gas hidrógeno o un derivado de hidruro, en particular cianoborohidruro sódico, de acuerdo con métodos conocidos. En tal caso, se proporciona un proceso P8 de acuerdo con la invención y dicho proceso P8 puede ilustrarse por el siguiente esquema de reacción:



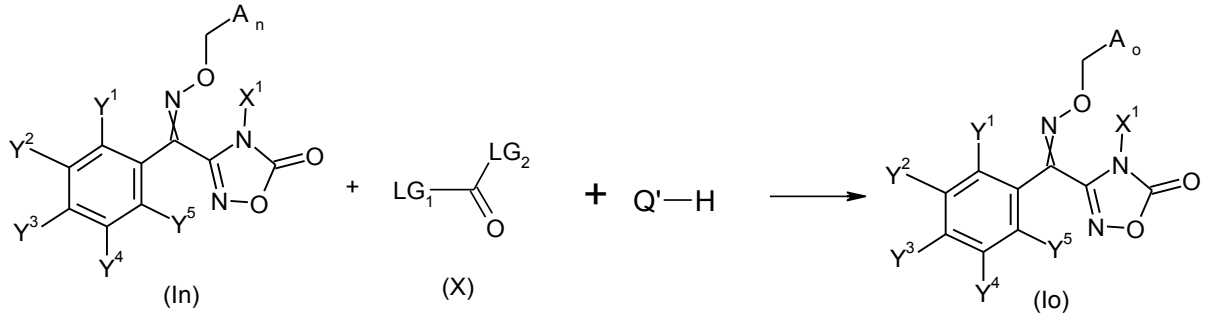
(II) (Im)

Proceso P8

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1 son como se definen en la presente memoria;
- A_l representa A en donde Z^1 representa un grupo amino, un alquil-C_1-C_8-amino sustituido o sin sustituir;
- A_m representa A en donde Z^1 representa a alquil-C_1-C_8-amino sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir.

Según la invención, se proporciona un proceso P9 adicional para la preparación de compuestos de fórmula (Io) a partir de compuestos de fórmula (In) según el siguiente esquema de reacción en una o dos etapas.



(In) (X) (Io)

Proceso P9

en la que

Y^1, Y^2, Y^3, Y^4, Y^5, X^1, R^a y Q son como se definen en la presente memoria y A_b representa A en donde Z^1 representa -NHR^a; A_c representa A en donde Z^1 representa un grupo de fórmula $QC(=U)NR^a$ y LG' representa un grupo saliente.

en la que

- Y^1, Y^2, Y^3, Y^4, Y^5, X^1, R^a son como se definen en la presente memoria;
- A_n representa A en donde Z^1 representa -NHR^a;
- A_o representa A en donde Z^1 representa Q'C(=O)NR^a en donde Q' representa alcoxi-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiniloxi-C_2-C_8 sustituido o sin sustituir, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, alquenil-C_2-C_8-sulfenilo sustituido o sin sustituir, alquinil-C_2-C_8-sulfenilo sustituido o sin sustituir, arilsulfenilo sustituido o sin sustituir, cicloalcoxi sustituido o sin sustituir; cicloalqueniloxi sustituido o sin sustituir, ariloxi sustituido o sin sustituir; heterocicliloxi sustituido o sin sustituir, bicicloalcoxi-C_5-C_{12}

condensado sustituido o sin sustituir, bicicloalqueniloxi-C_5-C_{12} condensado sustituido o sin sustituir, carbocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir, heterocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir;

- LG_1 y LG_2 representan grupos salientes
- Los grupos salientes adecuados pueden seleccionarse entre la lista que consiste en un átomo de halógeno u otros grupos nucleófugos convencionales tales como imidazol, halogenofenóxido o similares.

De acuerdo con la invención, los procedimientos P1 a P9 pueden realizarse si es apropiado en presencia de un disolvente y si es apropiado en presencia de una base.

De acuerdo con la invención, los procesos P1 y P2 pueden realizarse, si es apropiado, en presencia de un catalizador. El catalizador adecuado puede elegirse entre 4-dimetil-aminopiridina, 1-hidroxi-benzotriazol o dimetilformamida.

En caso de que LG' represente un grupo hidroxi, el proceso P2 de acuerdo con la presente invención puede realizarse en presencia de un agente de condensación. El agente condensador se puede elegir entre un formador de haluros de ácido, tal como fosgeno, tribromuro fosforoso, tricloruro fosforoso, pentacloruro fosforoso, oxido-tricloruro fosforoso o cloruro de tionilo; un formador de anhídridos, tal como cloroformiato de etilo, cloroformiato de metilo, cloroformiato de isopropilo, cloroformiato de isobutilo o cloruro de metanosulfonilo; carbodiimidas, tales como N,N'-diciclohexilcarbodiimida (DCC) u otros agentes condensadores habituales, tales como pentóxido de fósforo, ácido polifosfórico, N,N'-carbonil-diimidazol, 2-etoxi-N-etoxicarbonil-1,2-dihidroquinolina (EEDQ), trifenilfosfina/tetraclorometano, cloruro de 4-(4,6-dimetoxi[1,3,5]triazin-2-il)-4-metilmorfolinio hidratado o hexafluorofosfato de bromo-tripirrolidino-fosfonio.

Los disolventes adecuados para llevar a cabo los procedimientos P1 a P9 acordes con la invención son disolventes orgánicos inertes habituales. Se da preferencia a la utilización opcional de hidrocarburos halogenados alifáticos, alicíclicos o aromáticos, tales como éter de petróleo, hexano, heptano, ciclohexano, metilciclohexano, benceno, tolueno, xileno o decalina; clorobenceno, diclorobenceno, diclorometano, cloroformo, tetracloruro de carbono, dicloroetano o tricloroetano; éteres, tales como éter dietílico, éter diisopropílico, éter metil-terc-butílico, éter metil terc-amílico, dioxano, tetrahidrofurano, 1,2-dimetoxietano, 1,2-dietoxietano o anisol; nitrilos, tales como acetonitrilo, propionitrilo, n- o isobutironitrilo o benzonitrilo; amidas, tales como N,N-dimetilformamida, N,N-dimetilacetamida, N-metilformanilida, N-metilpirrolidona o triamida hexametilfosfórica; ésteres, tales como acetato de metilo o acetato de etilo, sulfóxidos, tales como sulfóxido de dimetilo o sulfonas, tales como sulfolano.

Las bases adecuadas para realizar los procedimientos P1 a P9 de acuerdo con la invención son bases inorgánicas y orgánicas que son convencionales para tales reacciones. Se prefiere la

utilización de hidruros, hidróxidos o alcóxidos de metales alcalinos o alcalinotérreos, tales como hidróxido sódico, hidruro sódico, hidróxido cálcico, hidróxido potásico, terc-butóxido potásico u otro hidróxido de amonio, carbonatos de metales alcalinos, tales como carbonato sódico, carbonato potásico, bicarbonato potásico, bicarbonato sódico, carbonato de cesio, acetatos de metales alcalinos o de metales alcalinotérreos, tales como acetato sódico, acetato potásico, acetato cálcico, y también aminas terciarias, tales como trimetilamina, trietilamina, diisopropiletilamina, tributilamina, *N*,*N*-dimetilanilina, piridina, *N*-metilpiperidina, *N*,*N*-dimetilaminopiridina, 1,4-diazabiciclo[2.2.2]octano (DABCO), 1,5-diazabiciclo[4.3.0]non-5-eno (DBN) o 1,8-diazabiciclo[5.4.0]undec-7-eno (DBU).

Si se llevan a cabo los procedimientos P1 a P9 según la invención, la temperatura de reacción puede ser variada independientemente dentro de un intervalo relativamente amplio. En general, el proceso P1 de acuerdo con la invención se realiza a temperaturas comprendidas entre -20ºC y 160ºC.

Los procedimientos P1 a P9 según la invención se llevan a cabo independientemente, de manera general, a presión atmosférica. Sin embargo, también es posible operar a presión elevada o reducida.

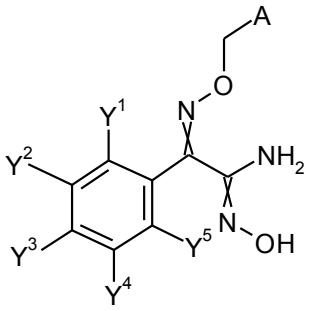
El tratamiento se realiza por métodos habituales. En general, se trata con agua la mezcla de reacción y se separa la fase orgánica y, después de secar, se concentra a presión reducida. Si procede, el residuo restante puede liberarse de cualquier impureza que todavía pueda estar presente por los métodos convencionales, tal como por cromatografía o recristalización.

Los compuestos de acuerdo con la invención se pueden preparar de acuerdo con los procesos descritos anteriormente. No obstante, debe entenderse que, en base a su conocimiento general y a las publicaciones disponibles, el experto en la materia será capaz de adaptar estos procesos a las características de cada uno de los compuestos de acuerdo con la invención que se desean sintetizar.

Los compuestos de fórmula (IV) se pueden preparar ventajosamente según el método descrito en el documento WO2011/080254, incorporado en la presente por referencia.

En un aspecto adicional, si A es como se describe en la presente memoria, la presente invención se refiere a compuestos de fórmula (V) útiles como compuestos o materiales intermedios para el proceso de preparación según la invención.

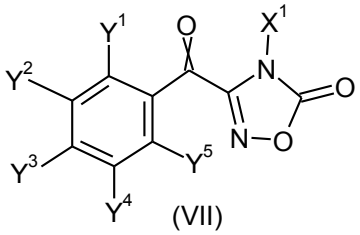
La presente invención proporciona así compuestos de fórmula (V) en donde Y^1, Y^2, Y^3, Y^4 , Y^5 y A son como se definen en la presente memoria.



(V)

En un aspecto adicional, si X^1 representa alquilo-C_1-C_8 sustituido o sin sustituir, la presente invención se refiere a compuestos de fórmula (VII) útiles como compuestos o materiales intermedios para el proceso de preparación según la invención.

La presente invención proporciona así compuestos de fórmula (VII) en donde Y^1, Y^2, Y^3, Y^4, Y^5 son como se definen en la presente memoria y X^1 representa alquilo-C_1-C_8 sustituido o sin sustituir.



(VII)

En un aspecto adicional, la presente invención también se refiere a una composición fungicida que comprende una cantidad eficaz y no fitotóxica de un compuesto activo de fórmula (I).

La expresión “cantidad eficaz y no fitotóxica” se refiere a una cantidad de composición de acuerdo con la invención que es suficiente para luchar contra, o destruir, los hongos presentes o que pueden aparecer en los cultivos, y que no conlleva ningún síntoma apreciable de fitotoxicidad para dichos cultivos. Dicha cantidad puede variar en un amplio intervalo dependiendo del hongo que se vaya a combatir, el tipo de cultivo, las condiciones climáticas y los compuestos incluidos en la composición fungicida de acuerdo con la invención. Esta cantidad se puede determinar por ensayos de campo sistemáticos, que están dentro de las capacidades de un experto en la técnica.

Así, de acuerdo con la invención, se proporciona una composición fungicida que comprende, como ingrediente activo, una cantidad eficaz de un compuesto de fórmula (I), como se defina en la presente memoria y un soporte, vehículo o carga aceptable desde el punto de vista agrícola.

Según la invención, la terminología “soporte” se refiere a un compuesto orgánico o inorgánico, natural o sintético, con el que se combina o asocia el compuesto activo de fórmula (I) para hacerlo más fácilmente aplicable, en particular a las partes de la planta. Así, este soporte es generalmente inerte y

debería ser aceptable desde el punto de vista agrícola. El soporte puede ser un sólido o un líquido. Ejemplos de soportes adecuados incluyen arcillas, silicatos naturales o sintéticos, sílice, resinas, ceras, fertilizantes sólidos, agua, alcoholes, en particular butanol, disolventes orgánicos, aceites minerales y vegetales y derivados de los mismos. También se pueden usar mezclas de tales soportes.

La composición de acuerdo con la invención puede comprender también componentes adicionales. En particular, la composición puede comprender además un tensioactivo. El tensioactivo puede ser un emulsionante, un agente de dispersión o un agente humectante de tipo iónico o no iónico o una mezcla de dichos tensioactivos. Se puede hacer mención, por ejemplo, de sales de ácidos poliacrílicos, sales de ácidos lignosulfónicos, sales de ácidos fenolsulfónicos o naftalenosulfónicos, policondensados de óxido de etileno con alcoholes grasos o con ácidos grasos o con aminas grasas, fenoles sustituidos (en particular alquilfenoles o arilfenoles), sales de ésteres de ácidos sulfosuccínicos, derivados de taurina (en particular tauratos de alquilo), ésteres fosfóricos de alcoholes o fenoles polioxietilados, ésteres de ácidos grasos de polioles y derivados de los compuestos anteriores que contienen funciones sulfato, sulfonato y fosfato. La presencia de al menos un tensioactivo es en general esencial si el compuesto activo y/o el soporte inerte es insoluble en agua y si el agente vector para la aplicación es agua. Preferiblemente, el contenido en tensioactivo puede estar comprendido entre 5% y 40% en peso de la composición.

Opcionalmente, también se pueden incluir otros componentes, por ej., coloides protectores, adhesivos, espesantes, agentes tixotrópicos, agentes de penetración, estabilizantes, agentes secuestrantes. Más en general, los compuestos activos se pueden combinar con cualquier aditivo sólido o líquido, que se adapte a las técnicas convencionales de fórmulación.

En general, la composición de acuerdo con la invención puede contener de 0,05 a 99% en peso de compuesto activo, preferiblemente, de 10 a 70% en peso.

Las composiciones según la presente invención se pueden usar en diversas formas y formulaciones como difusor de aerosol, suspensión en cápsula, concentrado de nebulización en frío, polvos pulverizables, concentrado emulsionable, emulsión de aceite en agua, emulsión de agua en aceite, gránulos encapsulados, gránulos finos, concentrado autosuspensible para tratamiento de semillas, gas (a presión), producto generador de gas, gránulos, concentrado de nebulización en caliente, macrogránulos, microgránulos, polvo dispersable en aceite, concentrado autosuspensible miscible con aceite, líquido miscible con aceite, pasta, varilla vegetal, polvo para tratamiento en seco de semillas, semillas recubiertas con un plaguicida, concentrado soluble, polvo soluble, disolución para tratamiento de semillas, concentrado en suspensión (concentrado autosuspensible), líquido de volumen ultrabajo (ulv), suspensión de volumen ultrabajo (ulv), gránulos o comprimidos dispersables en agua, polvo dispersable en agua para tratamiento de lodos, gránulos o comprimidos solubles en agua, polvo soluble en agua para tratamiento de semillas y polvo humectable. Estas composiciones

incluyen no sólo las composiciones que están listas para ser aplicadas a la planta o semilla que se va a tratar por medio de un dispositivo adecuado, tal como un dispositivo de atomización o de pulverización, sino también las composiciones comerciales concentradas que deben diluirse antes de la aplicación al cultivo.

Los compuestos de acuerdo con la invención pueden mezclarse también con una o más sustancias activas insecticidas, fungicidas, bactericidas, atrayentes, acaricidas o feromonas u otros compuestos con actividad biológica. Las mezclas así obtenidas tienen un espectro de actividad más amplio. Las mezclas con otros compuestos fungicidas son particularmente ventajosas. La composición según la invención que comprende una mezcla de un compuesto de fórmula (I) con un compuesto bactericida puede ser también particularmente ventajosa.

Las formulaciones mencionadas se pueden preparar de manera conocida per se, por ejemplo mezclado los ingredientes activos con al menos un prolongador, disolvente o diluyente, adyuvante, emulsificante, dispersante, yo ligante o fijador, agente humectante, repelente de agua, si es apropiado desecantes y estabilizantes UV y, si es apropiado tintes y pigmentos, antiespumantes, desespumantes, conservantes, espesantes orgánicos e inorgánicos secundarios, adhesivos, giberelinas y también agentes auxiliares de procesado habituales y también agua. Dependiendo del tipo de fórmulación que se va a preparar son necesarias etapas de procesado adicionales, por ejemplo molienda húmeda, molienda en seco y granulación.

Los ingredientes activos inventivos puede estar presentes como tales o en sus formulaciones (comerciales) y en las formas de uso preparadas a partir de estas formulaciones como una mezcla con otros ingredientes activos (conocidos), tales como insecticidas, atrayentes, esterilizantes, bactericidas, acaricidas, nematicidas, fungicidas, reguladores de crecimiento, herbicidas, fertilizantes, aseguradores, agentes biológicos y/o semioquímicos.

La presente invención se refiere además al uso de compuestos de la fórmula (I) como se define en la presente memoria para luchar contra hongos fitopatógenos.

La presente invención se refiere además al uso de compuestos de la fórmula (I) como se define en la presente memoria para el tratamiento de plantas transgénicas.

La presente invención se refiere además al uso de compuestos de la fórmula (I) como se define en la presente memoria para el tratamiento de semillas y de semillas de plantas transgénicas.

La presente invención se refiere además a un proceso para producir composiciones para luchar contra hongos fitopatógenos dañinos, caracterizado por que se mezclan derivados de la fórmula (I) como se definen en la presente memoria con extensores y/o tensioactivos.

De acuerdo con otro objeto de la presente invención, se proporciona un método para luchar contra los hongos fitopatógenos de plantas, cultivos o semillas, caracterizado porque se aplica una cantidad eficaz agronómica y sustancialmente no fitotóxica de una composición pesticida de acuerdo con la invención como tratamiento de semillas, aplicación foliar, aplicación en el tallo, aplicación por empapado o por goteo (irrigación química) a la semilla, la planta o al fruto de la planta, o al suelo o a un sustrato inerte (por ejemplo, sustratos inorgánicos como arena, lana mineral, lana de vidrio;

minerales expandidos como perlita, vermiculita, zeolita o arcilla expandida), piedra pómez, materiales piroclásticos o toba volcánica, sustratos orgánicos sintéticos (por ejemplo, poliuretano), sustratos orgánicos (por ejemplo, turba, compost, productos arbóreos de desecho como, fibra de coco, fibra de madera o astillas, tronco de árbol) o a un sustrato líquido (por ejemplo, sistemas hidropónicos flotantes, técnica de la película nutriente (NFT), aeropónicos) en el que la planta está creciendo o en el que se desea que crezca.

La expresión "se aplican a las plantas que se van a tratar" se comprende que quiere decir, para los fines de la presente invención, que la composición pesticida que es el objeto de la invención puede aplicarse por medio de diversos métodos de tratamiento tales como:

- atomización de las partes aéreas de dichas plantas con un líquido que comprende una de dichas composiciones,
- pulverización, incorporación de gránulos o polvos en el suelo, pulverización, alrededor de dichas plantas, y en el caso de los árboles, inyección o embadurnado,
- recubrimiento o recubrimiento pelicular de las semillas de dichas plantas con ayuda de una mezcla fitoprotectora que comprende una de dichas composiciones.

El método de acuerdo con la invención puede ser un método de curado, de prevención o de erradicación.

En este método, una composición utilizada puede prepararse previamente mezclando dos o más compuestos activos de acuerdo con la invención.

Según una alternativa de tal método, también es posible aplicar de forma simultánea, sucesiva o por separado los compuestos (A) y (B) de manera que se tengan los efectos (A)/(B) conjugados de las distintas composiciones que contienen cada una uno de los dos o tres ingredientes activos (A) o (B).

La dosis del compuesto activo aplicada habitualmente en el método de tratamiento de acuerdo con la invención es en general y de forma ventajosa

- para tratamiento foliares: de 0,1 a 10,000 g/ha, preferiblemente de 10 a 1,000 g/ha, más preferiblemente de 50 a 300 g/ha; en caso de aplicación por empapado o por goteo, la dosis puede incluso reducirse, especialmente mientras se utilizan sustratos inertes como lana mineral o perlita;
- para tratamiento de semillas: de 2 a 200 g por 100 kilogramos de semillas, preferiblemente de 3 a 150 g por 100 kilogramos de semillas;
- para tratamiento del suelo: de 0,1 a 10,000 g/ha, preferiblemente de 1 a 5,000 g/ha.

Las dosis indicadas en la presente invención se proporcionan como ejemplos ilustrativos del método de acuerdo con la invención. Un experto en la materia sabrá cómo adaptar la dosis de aplicación, en particular según la naturaleza de la planta o del cultivo a tratar.

En condiciones específicas, por ejemplo según la naturaleza del hongo fitopatógeno que se debe tratar o contra el que se debe luchar, una dosis menor puede ofrecer una protección adecuada. Ciertas condiciones climáticas, resistencia u otros factores como la naturaleza de los hongos fitopatógenos o al grado de infección, por ejemplo, de las plantas con estos hongos, pueden requerir

dosis mayores de ingredientes activos combinados. La dosis óptima depende habitualmente de varios factores, por ejemplo, del tipo de hongo fitopatógeno que se ha de tratar, del tipo o nivel de desarrollo de la planta infestada, de la densidad de vegetación o, alternativamente, del método de aplicación.

Sin que sea una limitación, el cultivo tratado con la composición o combinación pesticida de acuerdo con la invención es, por ejemplo, la vid, pero éste puede ser cereales, verduras, alfalfa, soja, cultivos hortícolas, césped, madera, plantas arbóreas u hortícolas.

El método de tratamiento de acuerdo con la invención puede servir también para tratar material de propagación tal como tubérculos o rizomas, pero también semillas, plántulas o siembras de plántulas y plantas o siembras de plantas. Este método de tratamiento también puede ser útil para tratar raíces. El método de tratamiento de acuerdo con la invención también puede servir para tratar las partes aéreas de la planta tales como troncos, tallos o vástagos, hojas, flores y frutos de la planta en cuestión.

Entre las plantas que se pueden proteger por el método de acuerdo con la invención, puede citarse el algodón; el lino; la vid; cultivos de frutas o verduras tales como *Rosaceae sp*. (por ejemplo, frutas de pepita tales como manzanas y peras, pero también frutas de hueso tales como albaricoques, almendras y melocotones), *Ribesioidae sp*., *Juglandaceae sp*., *Betulaceae sp., Anacardiaceae sp., Fagaceae sp., Moraceae sp., Oleaceae sp., Actinidaceae sp. Lauraceae sp., Musaceae sp.* (por ejemplo plátanos y plantas de plátanos), *Rubiaceae sp., Theaceae sp., Sterculiceae sp., Rutaceae sp.* (por ejemplo limones, naranjas y pomelos); *Solanaceae sp*. (por ejemplo, tomates), *Liliaceae sp*., *Asteraceae sp*. (por ejemplo, lechugas), *Umbelliferae sp*., *Cruciferae sp*., *Chenopodiaceae sp*., *Cucurbitaceae sp*., *Papilionaceae sp*. (por ejemplo, guisantes), *Rosaceae sp*. (por ejemplo, fresas); grandes cultivos tales como *Graminae sp*. (por ejemplo, maíz, césped o cereales como el trigo, arroz, cebada y tritical), *Asteraceae sp.* (por ejemplo, girasol), *Cruciferae sp*. (por ejemplo, colza), *Fabaceae sp*, (por ejemplo cacahuetes), *Papilionaceae sp*. (por ejemplo, soja), *Solanaceae sp.* (por ejemplo, patatas), *Chenopodiaceae sp*. (por ejemplo, remolacha); cultivos hortícolas y arbóreos; así como los homólogos genéticamente modificados de estos cultivos.

El método de tratamiento de acuerdo con la invención puede utilizarse en el tratamiento de organismos modificados genéticamente (GMO), por ejemplo, plantas o semillas. Las plantas modificadas genéticamente (o plantas transgénicas) son plantas en las que se ha integrado de manera estable un gen heterólogo en el genoma. La expresión “gen heterólogo” significa esencialmente un gen que se proporciona o construye fuera de la planta y que cuando se introduce en el genoma nuclear, cloroplástico o mitocondrial proporciona a la planta transformada nuevas o mejoradas propiedades agronómicas u otras propiedades mediante la expresión de una proteína o polipéptido de interés o disminuyendo o silenciando otros genes que están presentes en la planta (utilizando, por ejemplo, tecnología antisentido, tecnología de co-supresión o tecnología de interferencia de ARN – ARNi). Un gen heterólogo que está localizado en el genoma también se denomina un transgén. Un transgén que está definido por su particular localización en el genoma de la planta se denomina un evento de transformación o transgénico.

Dependiendo de la especie de planta o de la variedad de la planta cultivada, su localización y sus condiciones de crecimiento (suelos, clima, periodo de vegetación, dieta), el tratamiento de acuerdo con la invención también puede producir efectos superaditivos (“sinérgicos”). Así, por ejemplo, son posibles relaciones de aplicación reducidas y/o una ampliación del espectro de actividad y/o un incremento de la actividad de los compuestos y composiciones activos que pueden utilizarse según la invención, mejor crecimiento de la planta, tolerancia incrementada a temperaturas altas o bajas, tolerancia incrementada a la sequía o al agua o al contenido en sal del suelo, floración incrementada, recolección más fácil, maduración acelerada, rendimientos de cosecha mayores, frutos más grandes, mayor altura de la planta, color de la hoja más verde, floración temprana, mayor calidad y/o valor nutricional más alto de los productos cosechados, mayor concentración de azúcar en los frutos, mejor estabilidad en el almacenamiento y/o procesabilidad de los productos cosechados, lo que supera los efectos que eran de esperar.

Con determinadas relaciones de aplicación, las combinaciones del compuesto activo de acuerdo con la invención también pueden tener un efecto reforzador en las plantas. De acuerdo con esto, también son adecuados para movilizar el sistema de defensa de la planta frente al ataque de hongos y/o microorganismos y/o virus fitopatógenos no deseados. Esta puede ser, si resulta apropiado, una de las razones de la actividad incrementada de las combinaciones de acuerdo con la invención, por ejemplo, frente a hongos. Debe entenderse que las sustancias que refuerzan la planta (que inducen resistencia) significan, en el presente contexto, aquellas sustancias o combinaciones de sustancias que son capaces de estimular el sistema de defensa de las plantas de manera tal que cuando se inoculan posteriormente con hongos y/o microorganismos y/o virus fitopatógenos no deseados, las plantas tratadas muestran un grado de resistencia sustancial frente a esos hongos y/o microorganismos y/o virus fitopatógenos no deseados. En el caso presente, debe entenderse que los hongos y/o microorganismos y/o virus fitopatógenos no deseados significan hongos, bacterias y virus fitopatógenos. Así, las sustancias de acuerdo con la invención pueden emplearse para proteger a las plantas frente al ataque de los patógenos mencionados anteriormente en un periodo de tiempo determinado después del tratamiento. El periodo de tiempo en el que se produce la protección se extiende generalmente de 1 a 10 días, preferiblemente de 1 a 7 días, después del tratamiento de las plantas con los compuestos activos.

Las plantas y las variedades de plantas cultivadas que se tratan preferiblemente de acuerdo con la invención incluyen todas las plantas que tienen material genético que proporciona características útiles particularmente ventajosas a estas plantas (ya sean obtenidas por reproducción y/o por medios biotecnológicos).

Las plantas y las variedades de plantas cultivadas que preferiblemente también se tratan de acuerdo con la invención son resistentes frente a uno o más estreses bióticos, es decir, dichas plantas muestran una mejor defensa frente a plagas animales y microbianas, tales como frente a nematodos, insectos, ácaros, hongos, bacterias virus y/o viroides fitopatógenos.

Las plantas y las variedades de plantas cultivadas que también pueden tratarse de acuerdo con la invención son aquellas plantas que son resistentes a uno o más estreses abióticos. Las condiciones de estrés abiótico pueden incluir, por ejemplo, sequía, exposición a bajas temperaturas, exposición al calor, estrés osmótico, inundación, salinidad del suelo incrementada, exposición a minerales incrementada, exposición a ozono, exposición a mucha luz, disponibilidad limitada de nutrientes nitrogenados, disponibilidad limitada de nutrientes de fósforo, falta de sombra.

Las plantas y las variedades de plantas cultivadas que también pueden tratarse de acuerdo con la invención, son aquellas plantas caracterizadas por unas características de rendimiento incrementadas. El rendimiento incrementado en dichas plantas puede ser el resultado, por ejemplo, de una mejora de la fisiología de la planta, crecimiento y desarrollo, tal como eficacia en el uso del agua, eficacia en la retención del agua, utilización mejorada del nitrógeno, asimilación incrementada del carbono, fotosíntesis mejorada, eficacia incrementada de la germinación y maduración acelerada. El rendimiento puede verse afectado además por una arquitectura mejorada de la planta (en condiciones de estrés y sin estrés), incluyendo, pero sin limitarse a floración temprana, control de la floración para la producción de semillas híbridas, vigor de la siembra, tamaño de la planta, número y distancia de los entrenudos, crecimiento de la raíz, tamaño de la semilla, tamaño del fruto, tamaño de la vaina, número de vainas o espigas, número de semillas por vaina o espiga, masa de semillas, relleno incrementado de las semillas, dispersión reducida de las semillas, dehiscencia reducida de la vaina y resistencia a la caída. Las características de rendimiento adicionales incluyen composición de las semillas, tales como contenido en carbohidratos, contenido en proteínas, contenido en aceite y composición del aceite, valor nutricional, reducción de compuestos anti-nutricionales, procesabilidad mejorada y mejor estabilidad en el almacenamiento.

Las plantas que pueden tratarse de acuerdo con la invención son plantas híbridas que expresan la característica de heterosis o vigor del híbrido que resulta generalmente en un mayor rendimiento, vigor, salud y resistencia frente a factores de estrés biótico y abiótico. Dichas plantas se obtienen típicamente cruzando una línea parental macho estéril endogámica (la hembra parental) con otra línea parental macho fértil endogámica (el macho parental). La semilla híbrida se cosecha típicamente a partir de las plantas macho estériles y se vende a los cultivadores. Las plantas macho estériles pueden producirse a veces (por ejemplo, en maíz) por castración, es decir, por la eliminación mecánica de los órganos reproductores masculinos (o flores macho) pero, típicamente, la esterilidad de los machos es el resultado de determinantes genéticos en el genoma de la planta. En este caso, y especialmente cuando la semilla es el producto deseado para cosecharse de las plantas híbridas es típicamente útil asegurarse de que se ha restaurado completamente la fertilidad de los machos en las plantas híbridas. Esto puede conseguirse asegurando que los machos parentales tienen los genes de restauración de la fertilidad apropiados que son capaces de restaurar la fertilidad de los machos en las plantas híbridas que contienen los determinantes genéticos responsables de la esterilidad de los machos. Los determinantes genéticos para la esterilidad de los machos pueden estar localizados en el citoplasma. Los ejemplos de esterilidad masculina citoplásmica (CMS) se describieron, por ejemplo,

en especies de Brassica (W0 1992/005251, WO 1995/009910, WO 1998/27806, WO 2005/002324, WO 2006/021972 y US 6,229,072). Sin embargo, los determinantes genéticos para la esterilidad de los machos también pueden estar localizados en el genoma nuclear. Las plantas macho estériles también pueden obtenerse mediante métodos de biotecnología de plantas tales como ingeniería genética. Un medio particularmente útil para obtener plantas macho estériles se describe en WO 1989/10396 en el que, por ejemplo, una ribonucleasa tal como barnasa se expresa selectivamente en las células del tapetum en los estambres. Después, la fertilidad puede restaurarse mediante la expresión en las células del tapete de un inhibidor de ribonucleasa tal como barstar (por ejemplo, WO 1991/002069).

Las plantas o las variedades de plantas cultivadas (obtenidas mediante métodos de biotecnología de plantas tales como ingeniería genética) que pueden tratarse de acuerdo con la invención son plantas tolerantes a los herbicidas, es decir, plantas que se han hecho tolerantes a uno o más herbicidas dados. Dichas plantas pueden obtenerse mediante transformación genética, o mediante selección de plantas que contienen una mutación que proporciona dicha tolerancia a herbicidas.

Las plantas tolerantes a herbicidas son, por ejemplo, plantas tolerantes a glifosato, es decir, plantas que se han hecho tolerantes al herbicida glifosato o a las sales de éste. Las plantas pueden hacerse tolerantes a glifosato mediante diferentes medios. Por ejemplo, las plantas tolerantes a glifosato pueden obtenerse mediante la transformación de la planta con un gen que codifica la enzima 5-enolpiruvilshikimato-3-fosfato sintasa (EPSPS). Los ejemplos de dichos genes EPSPS son el gen AroA (mutante CT7) de la bacteria Salmonella typhimurium (Comai et al., Science (1983), 221, 370-371), el gen CP4 de la bacteria Agrobacterium sp. (Barry et al., Curr. Topics Plant Physiol. (1992), 7, 139-145), los genes que codifican una EPSPS de Petunia (Shah et al., Science (1986), 233, 478-481), una EPSPS de Tomate (Gasser et al., J. Biol. Chem. (1988),263, 4280-4289), o una EPSPS de Eleusina (WO 2001/66704). También puede ser una EPSPS mutada como se describe, por ejemplo, en los documentos EP-A 0837944, WO 2000/066746, WO 2000/066747 o WO 2002/026995. Las plantas tolerantes a glifosato también pueden obtenerse mediante la expresión de un gen que codifica una enzima glifosato óxido-reductasa como se describe en los documentos US 5.776.760 y US 5.463.175. Las plantas tolerantes a glifosato también pueden obtenerse mediante la expresión de un gen que codifica una enzima glifosato acetil tranferasa como se describe, por ejemplo, en los documentos WO 2002/036782, WO 2003/092360, WO 2005/012515 y WO 2007/024782. Las plantas tolerantes a glifosato también pueden obtenerse mediante la selección de plantas que contienen mutaciones naturales de los genes mencionados anteriormente, como se describe, por ejemplo, en los documentos WO 2001/024615 o WO 2003/013226.

Otras plantas resistentes a herbicidas son, por ejemplo, las plantas que se hacen tolerantes a herbicidas mediante la inhibición de la enzima glutamina sintasa, tal como bialafos, fosfinotricina o glufosinato. Dichas plantas pueden obtenerse mediante la expresión de una enzima que destoxifica el herbicida o una enzima glutamina sintasa mutante que es resistente a la inhibición. Una de dichas enzimas destoxificantes eficaces es una enzima que codifica una fosfinotricin acetiltransferasa (tal como la proteína bar o pat de especies de Streptomyces). Las plantas que expresan una fosfinotricin

acetiltransferasa exógena se describen, por ejemplo, en los documentos US 5.561.236; US 5.648.477; US 5.646.024; US 5.273.894; US 5.637.489; US 5.276.268; US 5.739.082; US 5.908.810 y US 7.112.665.

Las plantas tolerantes a herbicidas adicionales también son plantas que se hacen tolerantes a los herbicidas mediante la inhibición de la enzima hidroxifenilpiruvatodioxigenasa (HPPD). Las hidroxifenilpiruvatodioxigenasas son enzimas que catalizan la reacción en la que la para-hidroxifenilpiruvato (HPP) se transforma en homogentisato. Las plantas tolerantes a inhibidores de HPPD pueden transformarse con un gen que codifica una enzima HPPD resistente natural, o un gen que codifica una enzima HPPD mutada como se describe en WO 1996/038567, WO 1999/024585 y WO 1999/024586. La tolerancia a inhibidores de HPPD también puede obtenerse mediante la transformación de plantas con genes que codifican determinadas enzimas que permiten la formación de homogentisato a pesar de la inhibición de la enzima HPPD nativa por el inhibidor de HPPD. Dichas plantas y genes se describen en WO 1999/034008 y WO 2002/36787. La tolerancia de las plantas a inhibidores de HPPD también puede mejorarse mediante la transformación de plantas con un gen que codifica una enzima prefenato deshidrogenasa además de un gen que codifica una enzima tolerante a HPPD, como se describe en WO 2004/024928.

Aún más, las plantas tolerantes a herbicidas son plantas que se hacen tolerantes a inhibidores de la acetolactato sintasa (ALS). Los inhibidores de ALS conocidos incluyen, por ejemplo, los herbicidas de tipo sulfonilurea, imidazolinona, triazolopirimidinas, pirimidiniloxi(tio)benzoatos, y/o sulfonilaminocarboniltriazolinona. Se sabe que diferentes mutaciones en la enzima ALS (también conocida como acetohidroxiácido sintasa, AHAS) confieren tolerancia a diferentes herbicidas y grupos de herbicidas, como se describe, por ejemplo, en Tranel y Wright, *Weed Science* (2002), 50, 700-712, y también en los documentos US 5.605.011, US 5.378.824, US 5.141.870 y US 5.013.659. La producción de plantas tolerantes a sulfonilurea y de plantas tolerantes a imidazolinona se describe en los documentos US 5.605.011; US 5.013.659; US 5.141.870; US 5.767.361; US 5.731.180; US 5.304.732; US 4.761.373; US 5.331.107; US 5.928.937; y US 5.378.824; y en la publicación internacional WO 1996/033270. Se describen también otras plantas tolerantes a la imidazolinona, por ejemplo, en los documentos WO 2004/040012, WO 2004/106529, WO 2005/020673, WO 2005/093093, WO 2006/007373, WO 2006/015376, WO 2006/024351 y WO 2006/060634. Las plantas tolerantes a sulfonilurea y a imidazolinona adicionales también se describen, por ejemplo, en el documento WO 2007/024782.

Otras plantas tolerantes a imidazolinona y/o sulfonilurea pueden obtenerse mediante mutagénesis inducida, selección en cultivos celulares en presencia del herbicida o selección por mutación como se describe, por ejemplo para sojas en el documento US 5.084.082, para arroz en WO 1997/41218, para remolacha en US 5.773.702 y WO 1999/057965, para lechuga en US 5.198.599, o para girasol en WO 2001/065922.

Las plantas o las variedades de plantas cultivadas (obtenidas mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse de acuerdo con la invención son plantas transgénicas resistentes a insectos, es decir, plantas que se han hecho resistentes al ataque

de determinados insectos diana. Dichas plantas pueden obtenerse mediante transformación genética, o mediante selección de plantas que contienen una mutación que proporciona dicha resistencia a insectos.

Una “planta transgénica resistente a insectos”, tal y como se utiliza en la presente memoria, incluye cualquier planta que contenga al menos un transgén que comprende una secuencia codificante que codifica:

1) una proteína cristal insecticida de Bacillus thuringiensis o una parte insecticida de ésta, tal como las proteínas cristal insecticidas listadas por Crickmore et al., Microbiology and Molecular Biology Reviews (1998), 62, 807-813, actualizado por Crickmore et al. (2005) en la nomenclatura de las toxinas de Bacillus thuringiensis, en línea en: http://www.lifesci.sussex.ac.uk/Home/Neil_Crickmore/Bt/), o partes insecticidas de éstas, por ejemplo, las proteínas de la clase Cry de proteínas Cry1Ab, Cry1Ac, Cry1F, Cry2Ab, Cry3Aa o Cry3Bb o partes de éstas insecticidas; o

2) una proteína cristal de Bacillus thuringiensis o una parte de ésta que es insecticida en presencia de una segunda proteína cristal de Bacillus thuringiensis o una parte de ésta, tal como la toxina binaria constituida por las proteínas cristal Cry34 y Cry35 (Moellenbeck et al., Nat. Biotechnol. (2001), 19, 668-72; Schnepf et al., *Applied Environm. Microbiol*. (2006), 71, 1765-1774); o

3) una proteína insecticida híbrida que comprende partes de diferentes proteínas cristal insecticidas de Bacillus thuringiensis, tal como un híbrido de las proteínas de 1) anterior o un híbrido de las proteínas de 2) anterior, por ejemplo, la proteína Cry1A.105 producida por el maíz transgénico MON98034 (WO 2007/027777); o

4) una proteína de uno cualquiera de 1) a 3) anteriores en la que algunos aminoácidos, particularmente de 1 a 10, se han sustituido por otro aminoácido para obtener una mayor actividad insecticida frente a especies de insecto diana, y/o para expandir la gama de especies de insectos diana afectadas, y/o debido a los cambios introducidos en el ADN codificante durante la clonación o transformación, tal como la proteína Cry3Bb1 en los maíces transgénicos MON863 o MON88017, o la proteína Cry3A en el maíz transgénico MIR604;

5) una proteína insecticida secretada de Bacillus thuringiensis o Bacillus cereus, o una parte de ésta insecticida, tal como las proteínas vegetativas insecticidas (VIP) listadas en: http://www.lifesci.sussex.ac.uk/home/Neil_Crickmore/Bt/vip.html, por ejemplo, proteínas de la clase de proteínas VIP3Aa; o

6) una proteína secretada de Bacillus thuringiensis o Bacillus cereus que es insecticida en presencia de una segunda proteína secretada de Bacillus thuringiensis o B. cereus, tal como la toxina binaria constituida por las proteínas VIP1A y VIP2A (WO 1994/21795); o

7) una proteína insecticida híbrida que comprende partes de diferentes proteínas secretadas de Bacillus thuringiensis o Bacillus cereus, tal como un híbrido de las proteínas de 1) anterior o un híbrido de las proteínas de 2) anterior; o

8) una proteína de uno cualquiera de 1) a 3) anteriores en la que algunos aminoácidos, particularmente 1 a 10, han sido reemplazados por otro aminoácido para obtener una mayor

actividad insecticida frente a especies de insecto diana, y/o para expandir la gama de especies de insectos diana afectadas, y/o debido a los cambios introducidos en el ADN codificante durante la clonación o transformación (aunque todavía codifica una proteína insecticida), tal como la proteína VIP3Aa en el algodón transgénico COT102.

Por supuesto, una planta transgénica resistente a insectos, tal y como se utiliza en la presente memoria, también incluye cualquier planta que comprende una combinación de los genes que codifican las proteínas de una cualquiera de las clases anteriores 1 a 8. En una realización, una planta resistente a insectos contiene más de un transgén que codifica una proteína de una cualquiera de las clases anteriores 1 a 8, para expandir la gama de especies de insectos diana afectadas cuando se utilizan diferentes proteínas dirigidas a diferentes especies de insectos diana, o para retardar el desarrollo de la resistencia a insectos en las plantas utilizando diferentes proteínas insecticidas para las mismas especies de insectos diana pero que tienen un modo de acción diferente, tal como la unión a diferentes sitios de unión del receptor en el insecto.

Las plantas o las variedades de plantas cultivadas (obtenidas mediante métodos de biotecnología de plantas tal como ingeniería genética) que también pueden tratarse de acuerdo con la invención son tolerantes a estreses abióticos. Dichas plantas pueden obtenerse mediante transformación genética, o mediante selección de plantas que contienen una mutación que proporciona dicha resistencia al estrés. Las plantas tolerantes al estrés particularmente útiles incluyen:

a. plantas que contienen un transgén capaz de reducir la expresión y/o la actividad del gen de la poli(ADP-ribosa)polimerasa (PARP) en las células de la planta o en la planta como se describe en los documentos WO 2000/004173 o WO2006/045633 o PCT/EP07/004142.

b. plantas que contienen un transgén que incrementa la tolerancia al estrés capaz de reducir la expresión y/o la actividad de los genes que codifican PARG de las plantas o de las células de las plantas, como se describe, por ejemplo, en el documento WO 2004/090140.

c. plantas que contienen un transgén que incrementa la tolerancia al estrés que codifica una enzima funcional de la planta de la vía de síntesis del dinucleótido de nicotinamida adenina incluyendo nicotinamidasa, nicotinato fosforribosiltransferasa, ácido nicotínico mononucleótido adenil transferasa, dinucleótido de nicotinamida adenina sintetasa o nicotina amida fosforribosiltransferasa como se describe, por ejemplo, en los documentos WO2006/032469 o WO 2006/133827 o PCT/EP07/002433.

Las plantas o variedades de plantas cultivadas (obtenidas mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse de acuerdo con la invención, muestran una cantidad, calidad y/o estabilidad en el almacenamiento alteradas del producto

cosechado y/o propiedades alteradas de los ingredientes específicos del producto cosechado tales como:

1) plantas transgénicas que sintetizan un almidón modificado, que presenta cambios en sus características fisicoquímicas, en particular en el contenido en amilosa o en la relación amilosa/amilopectina, el grado de ramificación, la longitud media de la cadena, la distribución de la cadena lateral, el comportamiento viscoso, la fuerza de gelificación, el tamaño del grano del almidón y/o la morfología del grano del almidón, en comparación con el almidón sintetizado en células de plantas o plantas de tipo salvaje, de manera que es más adecuado para aplicaciones especiales. Dichas plantas transgénicas que sintetizan un almidón modificado se describen, por ejemplo, en los documentos EP 0571427, WO 1995/004826, EP 0719338, WO 1996/15248, WO 1996/19581, WO 1996/27674, WO 1997/11188, WO 1997/26362, WO 1997/32985, WO 1997/42328, WO 1997/44472, WO 1997/45545, WO 1998/27212, WO 1998/40503, WO 99/58688, WO 1999/58690, WO 1999/58654, WO 2000/008184, WO 2000/008185, WO 2000/008175, WO 2000/28052, WO 2000/77229, WO 2001/12782, WO 2001/12826, WO 2002/101059, WO 2003/071860, WO 2004/056999, WO 2005/030942, WO 2005/030941, WO 2005/095632, WO 2005/095617, WO 2005/095619, WO 2005/095618, WO 2005/123927, WO 2006/018319, WO 2006/103107, WO 2006/108702, WO 2007/009823, WO 2000/22140, WO 2006/063862, WO 2006/072603, WO 2002/034923, EP 06090134.5, EP 06090228.5, EP 06090227.7, EP 07090007.1, EP 07090009.7, WO 2001/14569, WO 2002/79410, WO 2003/33540, WO 2004/078983, WO 2001/19975, WO 1995/26407, WO 1996/34968, WO 1998/20145, WO 1999/12950, WO 1999/66050, WO 1999/53072, US 6.734.341, WO 2000/11192, WO 1998/22604, WO 1998/32326, WO 2001/98509, WO 2001/98509, WO 2005/002359, US 5.824.790, US 6.013.861, WO 1994/004693, WO 1994/009144, WO 1994/11520, WO 1995/35026, WO 1997/20936.

2) plantas transgénicas que sintetizan polímeros de carbohidratos distintos del almidón o que sintetizan polímeros de carbohidratos distintos del almidón con propiedades alteradas en comparación con plantas de tipo salvaje sin modificación genética. Los ejemplos son plantas que producen polifructosa, especialmente del tipo inulina y levano, como se describe en los documentos EP 0663956, WO 1996/001904, WO 1996/021023, WO 1998/039460, y WO 1999/024593, plantas que producen alfa-1,4-glucanos como se describe en los documentos WO 1995/031553, US 2002/031826, US 6.284.479, US 5.712.107, WO 1997/047806, WO 1997/047807, WO 1997/047808 y WO 2000/014249, plantas que producen alfa-1,4-glucanos con ramificaciones alfa-1,6, como se describe en el documento WO 2000/73422, plantas que producen alternano, como se describe en los documentos WO 2000/047727, EP 06077301.7, US 5.908.975 y EP 0728213.

3) plantas transgénicas que producen hialuronano, como se describe, por ejemplo, en los documentos WO 2006/032538, WO 2007/039314, WO 2007/039315, WO 2007/039316, JP 2006/304779, y WO 2005/012529.

Las plantas o las variedades de plantas cultivadas (que pueden obtenerse mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse de acuerdo con la invención son plantas, tales como plantas de algodón, con características alteradas de la fibra. Dichas plantas pueden obtenerse mediante transformación genética, o mediante selección de plantas que contienen una mutación que proporciona dichas características alteradas de la fibra e incluyen:

a) Plantas, tales como plantas de algodón, que contienen una forma alterada de los genes de la celulosa sintasa como se describe en el documento WO 1998/000549
b) Plantas, tales como plantas de algodón, que contienen una forma alterada de los ácidos nucleicos homólogos de rsw2 o rsw3 como se describe en el documento WO2004/053219
c) Plantas, tales como plantas de algodón, que tienen una expresión incrementada de la sacarosa fosfato sintasa como se describe en el documento WO 2001/017333
d) Plantas, tales como plantas de algodón, que tienen una expresión incrementada de la sacarosa sintasa como se describe en el documento WO02/45485
e) Plantas, tales como plantas de algodón, en las que el control temporal de la apertura de los plasmodesmata en la base de la célula de la fibra está alterado, por ejemplo, a través de una regulación negativa de la β-1,3-glucanasa selectiva de las fibras como se describe en el documento WO2005/017157
f) Plantas, tales como plantas de algodón, que tienen fibras con una reactividad alterada, por ejemplo, a través de la expresión del gen de la N-acetilglucosaminatransferasa incluyendo los genes nodC y quitinsintasa como se describe en el documento WO2006/136351

Las plantas o las variedades de plantas cultivadas (que pueden obtenerse mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse de acuerdo con la invención son plantas, tales como colza o plantas Brassica relacionadas, con unas características alteradas del perfil oleoso. Dichas plantas pueden obtenerse mediante transformación genética, o mediante selección de plantas que contienen una mutación que proporciona dichas características alteradas del aceite e incluyen:

a) Plantas, tales como plantas de colza, que producen aceite que tiene un contenido alto en ácido oleico como se describe, por ejemplo, en los documentos US 5.969.169, US 5.840.946 o US 6.323.392 o US 6.063.947
b) Plantas, tales como plantas de colza, que producen aceite que tiene un contenido bajo en ácido linolénico como se describe en los documentos US 6.270828, US 6.169.190 o US 5.965.755
c) Plantas tales como plantas de colza oleaginosa, que producen aceite que tiene un nivel bajo de ácidos grasos saturados, tal como se describe por ejemplo en la patente de EE.UU. No. 5,434,283 o en la solicitud de patente de EE.UU. No 12/668303

Las plantas o las variedades de plantas cultivadas (que pueden obtenerse mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse según la

invención son plantas, tales como colza o plantas Brassica relacionadas, con unas características alteradas de rotura de las semillas. Dichas plantas se pueden obtener por transformación genética o por selección de plantas que contienen una mutación que imparte dichas características alteradas de rotura de las semillas, e incluyen plantas tales como plantas de colza oleaginosa con rotura de las semillas retrasada o reducida, como se describe en la solicitud de patente de EE.UU. nº 61/135,230 y en los documentos WO 2009/068313 y WO 2010/006732.

Las plantas o las variedades de plantas cultivadas (que pueden obtenerse mediante métodos de biotecnología de plantas tales como ingeniería genética) que también pueden tratarse de acuerdo con la invención son plantas, tales como plantas de tabaco, con patrones de modificación de proteínas post-translacionales alterados, por ejemplo como se describe en los documentos WO 2010/121818 y WO 2010/145846.

Las plantas transgénicas particularmente útiles que se pueden tratar según la invención, son plantas que contienen transformaciones transgénicas o combinaciones de transformaciones transgénicas, que son objeto de demanda para el estado no regulado, en los Estados Unidos de América, al Servicio de inspección de Salud de Animales y Plantas (APHIS) del Departamento de Agricultura de Estados Unidos (USDA), si dichas demandas se han concedido o están todavía pendientes. Esta información está disponible en APHIS (4700 River Road Riverdale, MD 20737, EE.UU.), por ejemplo, en su sitio de Internet (URL http://www.aphis.usda.gov/brs/not_reg.html). En la fecha de presentación de esta solicitud, las solicitudes de no regulación que estaban en tramitación ante APHIS o que habían sido concedidas por APHIS eran las que contienen la información siguiente:

- Solicitud : el número de identificación de la solicitud. Las descripciones técnicas de los eventos de transformación se pueden encontrar en los documentos de solicitud individual que se pueden obtener de APHIS, por ejemplo en la página web de APHIS, con referencia a este número de petición. Estas descripciones se incorporan a la presente memoria por referencia.
- Extensión de Solicitud: referencia a una solicitud previa para la que se ha pedido una ampliación.
- Institución : el nombre de la entidad a la que se envía la petición.
- Artículo regulado : la especie de planta implicada.
- Fenotipo transgénico : la característica conferida a las plantas por el evento de transformación.
- Línea o suceso de transformación : el nombre del evento o eventos (a veces también designado como línea o líneas) para las que se solicita una no regulación.
- documentos APHIS : diversos documentos publicados por APHIS con relación a la Solicitud y que pueden ser solicitados a APHIS.

Las plantas adicionales particularmente útiles que contienen una transformación transgénica o combinaciones de transformaciones transgénicas están listadas, por ejemplo, en la base de datos de

diferentes agencias reguladoras nacionales o regionales (véase por ejemplo http://gmoinfo.jrc.it/gmp_browse.aspx y http://www.agbios.com/dbase.php).

Plantas transgénicas particularmente útiles que se pueden tratar según la invención son plantas que contienen sucesos de transformación, o una combinación de sucesos de transformación, y que se listan, por ejemplo, en las bases de datos de diversas agencias de regulación nacionales o regionales que incluyen el Suceso 1143-14A (algodón, control de insectos, no depositado, descrito en WO 2006/128569); Suceso 1143-51B (algodón, control de insectos, no depositado, descrito en WO 2006/128570); Suceso 1445 (algodón, tolerancia a herbicida, no depositado, descrito en US-A 2002-120964 o WO 02/034946); Suceso 17053 (arroz, tolerancia a herbicida, depositado como PTA-9843, descrito en WO 2010/117737); Suceso 17314 (arroz, tolerancia a herbicida, depositado como PTA-9844, descrito en WO 2010/117735); Suceso 281-24-236 (algodón, control de insectos - tolerancia a herbicida, depositado como PTA-6233, descrito en WO 2005/103266 o US-A 2005-216969); Suceso 3006-210-23 (algodón, control de insectos - tolerancia a herbicida, depositado como PTA-6233, descrito en US-A 2007-143876 o WO 2005/103266); Suceso 3272 (maíz, característica de calidad, depositado como PTA-9972, descrito en WO 2006/098952 o US-A 2006-230473); Suceso 40416 (maíz, control de insectos - tolerancia a herbicida, depositado como ATCC PTA-11508, descrito en WO 2011/075593); Suceso 43A47 (maíz, control de insectos - tolerancia a herbicida, depositado como ATCC PTA-11509, descrito en WO 2011/075595); Suceso 5307 (maíz, control de insectos, depositado como ATCC PTA-9561, descrito en WO 2010/077816); Suceso ASR-368 (Agróstide, tolerancia a herbicida, depositado como ATCC PTA-4816, descrito en US-A 2006-162007 o WO 2004/053062); Suceso B16 (maíz, tolerancia a herbicida, no depositado, descrito en US-A 2003-126634); Suceso BPS-CV127-9 (soja, tolerancia a herbicida, depositado como NCIMB No. 41603, descrito en WO 2010/080829); Suceso CE43-67B (algodón, control de insectos, depositado como DSM ACC2724, descrito en US-A 2009-217423 o WO2006/128573); Suceso CE44-69D (algodón, control de insectos, no depositado, descrito en US-A 2010-0024077); Suceso CE44-69D (algodón, control de insectos, no depositado, descrito en WO 2006/128571); Suceso CE46-02A (algodón, control de insectos, no depositado, descrito en WO 2006/128572); Suceso COT102 (algodón, control de insectos, no depositado, descrito en US-A 2006-130175 o WO 2004/039986); Suceso COT202 (algodón, control de insectos, no depositado, descrito en US-A 2007-067868 o WO 2005/054479); Suceso COT203 (algodón, control de insectos, no depositado, descrito en WO 2005/054480); Suceso DAS40278 (maíz, tolerancia a herbicida, depositado como ATCC PTA-10244, descrito en WO 2011/022469); Suceso DAS-59122-7 (maíz, control de insectos - tolerancia a herbicida, depositado como ATCC PTA 11384 , descrito en US-A 2006-070139); Suceso DAS-59132 (maíz, control de insectos - tolerancia a herbicida, no depositado, descrito en WO 2009/100188); Suceso DAS68416 (soja, tolerancia a herbicida, depositado como ATCC PTA-10442, descrito en WO 2011/066384 o WO 2011/066360); Suceso DP-098140-6 (maíz, tolerancia a herbicida, depositado como ATCC PTA-8296, descrito en US-A 2009-137395 o WO 2008/112019); Suceso DP-305423-1 (soja, característica de calidad, no depositado, descrito en US-A 2008-312082 o WO 2008/054747); Suceso DP-32138-1 (maíz, sistema de hibridación, depositado como ATCC PTA-9158, descrito en US-A 2009-0210970 o

WO 2009/103049); Suceso DP-356043-5 (soja, tolerancia a herbicida, depositado como ATCC PTA-8287, descrito en US-A 2010-0184079 o WO 2008/002872); Suceso EE-1 (berenjena, control de insectos, no depositado, descrito en WO 2007/091277); Suceso FI117 (maíz, tolerancia a herbicida, depositado como ATCC 209031, descrito en US-A 2006-059581 o WO 98/044140); Suceso GA21 (maíz, tolerancia a herbicida, depositado como ATCC 209033, descrito en US-A 2005-086719 o WO 98/044140); Suceso GG25 (maíz, tolerancia a herbicida, depositado como ATCC 209032, descrito en US-A 2005-188434 o WO 98/044140); Suceso GHB119 (algodón, control de insectos - tolerancia a herbicida, depositado como ATCC PTA-8398, descrito en WO 2008/151780); Suceso GHB614 (algodón, tolerancia a herbicida, depositado como ATCC PTA-6878, descrito en US-A 2010-050282 o WO 2007/017186); Suceso GJ11 (maíz, tolerancia a herbicida, depositado como ATCC 209030, descrito en US-A 2005-188434 o WO 98/044140); Suceso GM RZ13 (remolacha azucarera, resistencia a virus, depositado como NCIMB-41601, descrito en WO 2010/076212); Suceso H7-1 (remolacha azucarera, tolerancia a herbicida, depositado como NCIMB 41158 o NCIMB 41159, descrito en US-A 2004-172669 o WO 2004/074492); Suceso JOPLIN1 (trigo, tolerancia a enfermedades, no depositado, descrito en US-A 2008-064032); Suceso LL27 (soja, tolerancia a herbicida, depositado como NCIMB41658, descrito en WO 2006/108674 o US-A 2008-320616); Suceso LL55 (soja, tolerancia a herbicida, depositado como NCIMB 41660, descrito en WO 2006/108675 o US-A 2008-196127); Suceso LLalgodón25 (algodón, tolerancia a herbicida, depositado como ATCC PTA-3343, descrito en WO 03/013224 o US-A 2003-097687); Suceso LLarroz06 (arroz, tolerancia a herbicida, depositado como ATCC-23352, descrito en US 6,468,747 o WO 00/026345); Suceso LLarroz601 (arroz, tolerancia a herbicida, depositado como ATCC PTA-2600, descrito en US-A 2008-2289060 o WO 00/026356); Suceso LY038 (maíz, característica de calidad, depositado como ATCC PTA-5623, descrito en US-A 2007-028322 o WO 2005/061720); Suceso MIR162 (maíz, control de insectos, depositado como PTA-8166, descrito en US-A 2009-300784 o WO 2007/142840); Suceso MIR604 (maíz, control de insectos, no depositado, descrito en US-A 2008-167456 o WO 2005/103301); Suceso MON15985 (algodón, control de insectos, depositado como ATCC PTA-2516, descrito en US-A 2004-250317 o WO 02/100163); Suceso MON810 (maíz, control de insectos, no depositado, descrito en US-A 2002-102582); Suceso MON863 (maíz, control de insectos, depositado como ATCC PTA-2605, descrito en WO 2004/011601 o US-A 2006-095986); Suceso MON87427 (maíz, control de polinización, depositado como ATCC PTA-7899, descrito en WO 2011/062904); Suceso MON87460 (maíz, tolerancia al estrés, depositado como ATCC PTA-8910, descrito en WO 2009/111263 o US-A 2011-0138504); Suceso MON87701 (soja, control de insectos, depositado como ATCC PTA-8194, descrito en US-A 2009-130071 o WO 2009/064652); Suceso MON87705 (soja, característica de calidad - tolerancia a herbicida, depositado como ATCC PTA-9241, descrito en US-A 2010-0080887 o WO 2010/037016); Suceso MON87708 (soja, tolerancia a herbicida, depositado como ATCC PTA9670, descrito en WO 2011/034704); Suceso MON87754 (soja, característica de calidad, depositado como ATCC PTA-9385, descrito en WO 2010/024976); Suceso MON87769 (soja, característica de calidad, depositado como ATCC PTA-8911, descrito en US-A 2011-0067141 o WO 2009/102873); Suceso MON88017 (maíz, control de insectos - tolerancia

a herbicida, depositado como ATCC PTA-5582, descrito en US-A 2008-028482 o WO 2005/059103); Suceso MON88913 (algodón, tolerancia a herbicida, depositado como ATCC PTA-4854, descrito en WO 2004/072235 o US-A 2006-059590); Suceso MON89034 (maíz, control de insectos, depositado como ATCC PTA-7455, descrito en WO 2007/140256 o US-A 2008-260932); Suceso MON89788 (soja, tolerancia a herbicida, depositado como ATCC PTA-6708, descrito en US-A 2006-282915 o WO 2006/130436); Suceso MS11 (colza oleaginosa, control de polinización - tolerancia a herbicida, depositado como ATCC PTA-850 o PTA-2485, descrito en WO 01/031042); Suceso MS8 (colza oleaginosa, control de polinización - tolerancia a herbicida, depositado como ATCC PTA-730, descrito en WO 01/041558 o US-A 2003-188347); Suceso NK603 (maíz, tolerancia a herbicida, depositado como ATCC PTA-2478, descrito en US-A 2007-292854); Suceso PE-7 (arroz, control de insectos, no depositado, descrito en WO 2008/114282); Suceso RF3 (colza oleaginosa, control de polinización - tolerancia a herbicida, depositado como ATCC PTA-730, descrito en WO 01/041558 o US-A 2003-188347); Suceso RT73 (colza oleaginosa, tolerancia a herbicida, no depositado, descrito en WO 02/036831 o US-A 2008-070260); Suceso T227-1 (remolacha azucarera, tolerancia a herbicida, no depositado, descrito en WO 02/44407 o US-A 2009-265817); Suceso T25 (maíz, tolerancia a herbicida, no depositado, descrito en US-A 2001-029014 o WO 01/051654); Suceso T304-40 (algodón, control de insectos - tolerancia a herbicida, depositado como ATCC PTA-8171, descrito en US-A 2010-077501 o WO 2008/122406); Suceso T342-142 (algodón, control de insectos, no depositado, descrito en WO 2006/128568); Suceso TC1507 (maíz, control de insectos - tolerancia a herbicida, no depositado, descrito en US-A 2005-039226 o WO 2004/099447); Suceso VIP1034 (maíz, control de insectos - tolerancia a herbicida, depositado como ATCC PTA-3925, descrito en WO 03/052073), Suceso 32316 (maíz,control de insectos-tolerancia a herbicida,depositado como PTA-11507, descrito en WO 2011/084632), Suceso 4114 (maíz, control de insectos-tolerancia a herbicida,depositado como PTA-11506, descrito en WO 2011/084621).

La composición de acuerdo con la invención también puede usarse contra enfermedades fúngicas susceptibles de desarrollarse sobre madera o en el interior de la misma. El término “madera” significa todos los tipos de especies de madera y todos los tipos de labores de esta madera destinados a la construcción, por ejemplo, madera maciza, madera de alta densidad, madera laminada y contrachapado. El método para tratar la madera de acuerdo con la invención consiste fundamentalmente en ponerla en contacto con uno o más compuestos de acuerdo con la invención, o con una composición de acuerdo con la invención; esto incluye, por ejemplo, aplicación directa, pulverización, inmersión, inyección o cualquier otro medio adecuado.

Entre las enfermedades de plantas o cultivos que pueden combatirse mediante el método de acuerdo con la invención, se pueden mencionar:

Enfermedades por mildiu tales como:

Enfermedades por Blumeria, producidas por ejemplo por *Blumeria graminis*;

Enfermedades por Podosfaera, producidas por ejemplo por *Podosfaera leucotricha*;

Enfermedades por Sfaerotheca, producidas por ejemplo por *Sfaerotheca fuliginaa*;

Enfermedades por Uncínula, producidas por ejemplo por *Uncinula necator*;

Enfermedades por roya, tales como:

Enfermedades por Gymnosporangium, producidas por ejemplo por *Gymnosporangium sabinae;*

Enfermedades por Hemileia, producidas por ejemplo por *Hemileia vastatrix*;

Enfermedades por fakopsora, producidas por ejemplo por *fakopsora pachyrhizi* o *fakopsora meibomiae;*

Enfermedades por Puccinia, producidas por ejemplo por *Puccinia recondita*;

Enfermedades por Uromyces, producidas por ejemplo por *Uromyces appendiculatus*;

Enfermedades por oomicetos tales como:

Enfermedades por Bremia, producidas por ejemplo por *Bremia lactucae*;

Enfermedades por Peronospora, producidas por ejemplo por *Peronospora pisi* o *P. brassicae*;

Enfermedades por fytofthora, producidas por ejemplo por *fytofthora infestans*;

Enfermedades por Plasmopara, producidas por ejemplo por *Plasmopara viticola*;

Enfermedades por Pseudoperonospora, producidas por ejemplo por *Pseudoperonospora humuli* o *Pseudoperonospora cubensis*;

Enfermedades por Pythium, producidas por ejemplo por *Pythium ultimum*;

Enfermedades por manchas foliares, enrojecimiento foliar y tizón foliar, tales como:

Enfermedades por Alternaria, producidas por ejemplo por *Alternaria solani*;

Enfermedades por Cercospora, producidas por ejemplo por *Cercospora beticola*;

Enfermedades por Cladiosporium, producidas por ejemplo por *Cladiosporium cucumerinum*;

enfermedades por Cochliobolus, producidas por ejemplo por *Cochliobolus sativus;*

Enfermedades por Colletotrichum, producidas por ejemplo por *Colletotrichum lindemuthanium*;

Enfermedades por cicloconium, producidas por ejemplo por *cicloconium oleaginum*;

Enfermedades por Diaporthe, producidas por ejemplo por *Diaporthe citri*;

Enfermedades por Elsinoe, producidas por ejemplo por *Elsinoe fawcettii*;

Enfermedades por Gloeosporium, producidas por ejemplo por *Gloeosporium laeticolor*;

Enfermedades por Glomerella, producidas por ejemplo por *Glomerella cingulata*;

Enfermedades por Guignardia, producidas por ejemplo por *Guignardia bidwelli*;

Enfermedades por Leptosphaeria, producidas por ejemplo por *Leptosphaeria maculans*; *Leptosfaeria nodorum*;

Enfermedades por Magnaporthe, producidas por ejemplo por *Magnaporthe grisea*;

Enfermedades por Mycosphaerella, producidas por ejemplo por *Mycosphaerella graminicola*; *Mycosphaerella arachidicola*; *Mycosfaerella fijiensis*;

Enfermedades por Phaeosphaeria, producidas por ejemplo por *Phaeosphaeria nodorum* ;

Enfermedades por Pyrenofora, producidas por ejemplo por *Pyrenofora teres*;

Enfermedades por Ramularia, producidas por ejemplo por *Ramularia collo-cygni* ;

Enfermedades por Rhynchosporium, producidas por ejemplo por *Rhynchosporium secalis*;

Enfermedades por Septoria, producidas por ejemplo por *Septoria apii* o *Septoria lycopercisi* ;

Enfermedades por Typhula, producidas por ejemplo por *Typhula incarnata*;

Enfermedades por Venturia, producidas por ejemplo por *Venturia inaequalis*;

Enfermedades de la raíz y el tallo, tales como:

Enfermedades por Corticium, producidas por ejemplo por *Corticium graminaarum*;

Enfermedades por Fusarium, producidas por ejemplo por *Fusarium oxisporum*;

Enfermedades por Gaeumannomyces, producidas por ejemplo por *Gaeumannomyces graminis*;

Enfermedades por Rhizoctonia, producidas por ejemplo por *Rhizoctonia solani;*

Enfermedades por Tapesia, producidas por ejemplo por *Tapesia acuformis*;

Enfermedades por Thielaviopsis, producidas por ejemplo por *Thielaviopsis basicola*;

Enfermedades de la mazorca y de la panícula, tales como:

Enfermedades por Alternaria, producidas por ejemplo por *Alternaria spp*;

Enfermedades por Aspergillus, producidas por ejemplo por *Aspergillus flavus;*

Enfermedades por Cladosporium, producidas por ejemplo por *Cladosporium spp*.; ;

Enfermedades por Claviceps, producidas por ejemplo por *Claviceps purpurea*;

Enfermedades por Fusarium, producidas por ejemplo por *Fusarium culmorum*;

Enfermedades por Gibberella, producidas por ejemplo por *Gibberella zeae*;

Enfermedades por Monografella, producidas por ejemplo por *Monografella nivalis*;

Enfermedades por carbón y tizón, tales como:

Enfermedades por Sphacelotheca, producidas por ejemplo por *Sphacelotheca reiliana*;

Enfermedades por Tilletia, producidas por ejemplo por *Tilletia caries* ;

Enfermedades por Urocystis, producidas por ejemplo por *Urocystis occulta*;

Enfermedades por Ustilago, producidas por ejemplo por *Ustilago nuda*;

Enfermedades por podredumbre y moho de la fruta tales como:

Enfermedades por Aspergillus, producidas por ejemplo por *Aspergillus flavus;*

Enfermedades por Botrytis, producidas por ejemplo por *Botrytis cinerea*;

enfermedades por Penicillium, producidas por ejemplo por *Penicillium expansum*;

Enfermedades por Sclerotinia, producidas por ejemplo por *Sclerotinia sclerotiorum*;

Enfermedades por Verticilium, producidas por ejemplo por *Verticilium alboatrum*;

Enfermedades por podredumbre de las semillas y del suelo, moho, marchitez, roña y caída de almáciga :

Enfermedades por Alternaria, producidas por ejemplo *Alternaria brassicicola*

Enfermedades por Afanomyces, producidas por ejemplo por *Afanomyces euteiches*

Enfermedades por Ascochyta, producidas por ejemplo por *Ascochyta lentis*

Enfermedades por Aspergillus, producidas por ejemplo por *Aspergillus flavus*

Enfermedades por Cladosporium, producidas por ejemplo por *Cladosporium herbarum*

Enfermedades por Cochliobolus, producidas por ejemplo por *Cochliobolus sativus*

(En forma de conidio: *Drechslera, Bipolaris Sinónimo:* Helminthosporium);

Enfermedades por Colletotrichum, producidas por ejemplo por *Colletotrichum coccodes*;

Enfermedades por Fusarium, producidas por ejemplo por *Fusarium culmorum*;

Enfermedades por Gibberella, producidas por ejemplo por *Gibberella zeae*;

Enfermedades por Macrofomina, producidas por ejemplo por *Macrofomina* faseolina

Enfermedades por Monografella, producidas por ejemplo por *Monografella nivalis*;

Enfermedades por Penicillium, producidas por ejemplo por *Penicillium expansum*

Enfermedades por foma, producidas por ejemplo por *foma lingam*

Enfermedades por fomopsis, producidas por ejemplo por *fomopsis sojae*;

Enfermedades por fytofthora, producidas por ejemplo por fytofthora cactorum;

Enfermedades por Pyrenofora, producidas por ejemplo por *Pyrenofora graminaa*

Enfermedades por Pyricularia, producidas por ejemplo por *Pyricularia oryzae*;

Enfermedades por Pythium, producidas por ejemplo por *Pythium ultimum*;

Enfermedades por Rhizoctonia, producidas por ejemplo por *Rhizoctonia solani;*

Enfermedades por Rhizopus, producidas por ejemplo por *Rhizopus oryzae*

Enfermedades por Sclerotium, producidas por ejemplo por *Sclerotium rolfsii*;

Enfermedades por Septoria, producidas por ejemplo por *Septoria nodorum*;

Enfermedades por Typhula, producidas por ejemplo por *Typhula incarnata*;

Enfermedades por Verticillium, producidas por ejemplo por *Verticillium dahliae*;

Enfermedades por chancro, retama y puntiseco tales como:

Enfermedades por Nectria, producidas por ejemplo por *Nectria galligena*;

Enfermedades por tizón, tales como:

Enfermedades por Monilinia, producidas por ejemplo por *Monilinia laxa*;

enfermedades por ampolla de la hoja o encrespamiento de la hoja, tales como :

Enfermedades por Tafrina, producidas por ejemplo por *Tafrina deformans*;

Enfermedades de deterioro de plantas madereras, tales como:

Enfermedades por Esca, producidas por ejemplo por *Phaemoniella clamydospora*;

Acronecrosis por Eutypa, producida por ejemplo por *Eutypa lata*;

enfermedad de los olmos holandeses*,* producida por ejemplo por *Ceratocystis ulmi*;

Enfermedades de flores y semillas tales como:

Enfermedades por Botrytis, producidas por ejemplo por *Botrytis cinerea*;

Enfermedades de tubérculos tales como:

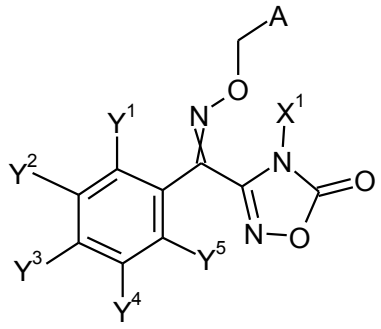
Enfermedades por Rhizoctonia, producidas por ejemplo por *Rhizoctonia solani;*

Enfermedades por Helminthosporium, producidas por ejemplo por *Helminthosporium solani*.

Los compuestos de acuerdo con la invención se pueden usar también para la preparación de una composición útil para tratar de forma curativa o preventiva enfermedades fúngicas humanas o animales como, por ejemplo, micosis, dermatosis, enfermedades por Trichophyton y candidiasis o enfermedades causadas por Aspergillus spp., por ejemplo Aspergillus fumigatus.

Los diversos aspectos de la invención se ilustrarán ahora con referencia a la siguiente tabla 1 de ejemplos de compuestos y los siguientes ejemplos de preparación o eficacia.

La siguiente tabla 1 ilustra de una manera no limitante ejemplos de compuestos de acuerdo con la invención.



(I)

En la tabla 1 se usan las siguientes abreviaturas para los elementos reivindicados específicos “A1” y “A2” de la estructura genérica (I) de la invención:

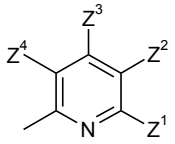
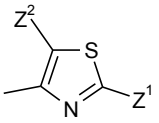
 A1	 A2

Tabla 1

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
1	H	H	H	H	H	CH_3	A1	amino	H	H	H	Z	1,14[a]
2	H	H	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,44[a]
3	H	H	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,27[a]
4	H	H	H	H	H	CH_3	A2	amino	H			Z	1,54[a]
5	H	H	H	H	H	CH_3	A1	[(2-ciclohexiletoxi)carbonil]amino	H	H	H	Z	5,27[a]
6	H	H	H	H	H	CH_3	A1	[(pent-4-en-1-iloxi)carbonil]amino	H	H	H	Z	4,06[a]
7	H	H	H	H	H	CH_3	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,15[a]
8	H	H	H	H	H	CH_3	A1	heptanoilamino	H	H	H	Z	4,3[a]
9	H	H	H	H	H	CH_3	A2	heptanoilamino	H			Z	4,13[a]
10	H	H	H	H	H	CH_3	A2	(2,3-dihidro-1,4-benzodioxin-2-ilcarbonil)amino	H			Z	3,62[a]
11	H	H	H	H	H	CH_3	A2	(3,4-dihidro-2H-cromen-2-ilcarbonil)amino	H			Z	3,94[a]
12	H	H	H	H	H	CH_3	A2	[(pentiloxi)carbonil]amino	H			Z	4,11[a]
13	H	H	H	H	H	CH_3	A2	pentanoilamino	H			Z	3,37[a]
14	H	H	H	H	H	CH_3	A2	(butoxicarbonil)amino	H			Z	3,73[a]
15	H	H	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,51[a]
16	H	H	H	H	H	CH_3	A1	[(ciclopentilmetoxi)carbonil]amino	H	H	H	Z	4,53[a]
17	H	H	H	H	H	CH_3	A1	(3-fluorobenzoil)amino	H	H	H	Z	3,69[a]
18	H	H	H	H	H	CH_3	A1	(butoxicarbonil)amino	H	H	H	Z	4,04[a]
19	H	H	H	H	H	CH_3	A2	(2-fenoxipropanoil)amino	H			Z	3,71[a]
20	H	H	H	H	H	CH_3	A2	(3-fluorobenzoil)amino	H			Z	3,6[a]
21	H	H	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,96[a]
22	H	H	H	H	H	H	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,09[a]
23	H	H	H	H	H	H	A1	amino	H	H	H	Z	1,36[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
24	H	H	H	H	H	H	A2	amino	H			Z	1,58[a]
25	H	H	H	H	H	CH_3	A1	amino	H	H	H	E	1,14[a]
26	H	H	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	E	4,24[a]
27	H	H	H	H	H	CH_3	A2	(2-fluorobenzoil)amino	H			Z	3,44[a]
28	H	H	H	H	H	CH_3	A2	[(2-fluorofenoxi)acetil]amino	H			Z	3,51[a]
29	H	H	H	H	H	CH_3	A1	[(2-clorofenil)acetil]amino	H	H	H	Z	3,76[a]
30	H	CH_3	H	H	H	CH_3	A1	amino	H	H	H	Z	1,45[a]
31	H	H	H	H	H	CH_3	A1	[(2-metoxifenoxi)acetil]amino	H	H	H	Z	3,8[a]
32	H	H	H	H	H	CH_3	A1	octanoilamino	H	H	H	Z	4,71[a]
33	H	H	H	H	H	CH_3	A1	(propoxicarbonil)amino	H	H	H	Z	3,62[a]
34	H	H	H	H	H	CH_3	A1	(4-clorobutanoil)amino	H	H	H	Z	3,27[a]
35	H	H	H	H	H	CH_3	A1	(ciclopropilcarbonil)amino	H	H	H	Z	2,92[a]
36	H	metoxi	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,46[a]
37	H	H	H	H	H	CH_3	A1	hept-6-inoilamino	H	H	H	Z	3,37[a]
38	H	H	H	H	H	CH_3	A2	[(4-fluorofenoxi)acetil]amino	H			Z	3,53[a]
39	H	H	H	H	H	CH_3	A1	{[(2-metilpent-4-in-2-il)oxi]carbonil}amino	H	H	H	Z	3,94[a]
40	H	H	H	H	H	CH_3	A1	[(1-metilciclohexil)carbonil]amino	H	H	H	Z	4,36[a]
41	H	H	CH_3	H	H	CH_3	A2	[(pentiloxi)carbonil]amino	H			Z	4,41[a]
42	H	fluoro	H	H	H	CH_3	A1	(3-fluorobenzoil)amino	H	H	H	Z	3,79[a]
43	H	H	H	H	H	CH_3	A1	(1-feniletil)amino	H	H	H	Z	2,86[a]
44	H	H	H	H	H	CH_3	A1	(3-metoxibenzoil)amino	H	H	H	Z	3,62[a]
45	H	H	H	H	H	CH_3	A1	{[(4-metilpentil)oxi]carbonil}amino	H	H	H	Z	4,81[a]
46	H	H	H	H	H	CH_3	A1	(difenilacetil)amino	H	H	H	Z	4,48[a]
47	H	H	H	H	H	CH_3	A2	[(3-metilbutoxi)carbonil]amino	H			Z	4,06[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
48	H	H	H	H	H	CH_3	A1	(3-etoxipropanoil)amino	H	H	H	Z	2,96[a]
49	H	H	H	H	H	CH_3	A1	{[2-(3-bromofenil)etoxi]carbonil}amino	H	H	H	Z	4,61[a]
50	H	H	H	H	H	CH_3	A2	[2-(3-metoxifenoxi)propanoil]amino	H			Z	3,71[a]
51	H	H	H	H	H	CH_3	A1	[(3-metoxifenoxi)acetil]amino	H	H	H	Z	3,73[a]
52	H	H	H	H	H	CH_3	A1	acetilamino	H	H	H	Z	2,44[a]
53	H	H	H	H	H	CH_3	A2	[(hexiloxi)carbonil]amino	H			Z	4,51[a]
54	H	H	H	H	H	CH_3	A1	(fenilcarbonil)amino	H	H	H	Z	3,51[a]
55	H	H	H	H	H	CH_3	A2	[(4-bromofenoxi)acetil]amino	H			Z	3,94[a]
56	H	H	H	H	H	CH_3	A1	{[(3-metilpentil)oxi]carbonil}amino	H	H	H	Z	4,78[a]
57	H	H	H	H	H	CH_3	A2	(2-clorobenzoil)amino	H			Z	3,46[a]
58	H	H	H	H	H	difluorometilo	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,64[a]
59	H	H	H	H	H	CH_3	A1	(4,4-dimetilpentanoil)amino	H	H	H	Z	4,15[a]
60	H	H	H	H	H	CH_3	A1	{[(1-fenilpropan-2-il)oxi]carbonil}amino	H	H	H	Z	4,49[a]
61	H	H	H	H	H	Etilo	A1	[(ciclohexiloxi)carbonil]amino	H	H	H	Z	4,77[a]
62	H	H	H	H	H	CH_3	A1	(3-ciclopropilpropanoil)amino	H	H	H	Z	3,51[a]
63	H	H	H	H	H	CH_3	A1	(3-cloropropanoil)amino	H	H	H	Z	3,02[a]
64	H	H	H	H	H	CH_3	A1	[2-(3-clorofenoxi)propanoil]amino	H	H	H	Z	4,38[a]
65	H	H	H	H	H	CH_3	A1	[(4-bromofenoxi)acetil]amino	H	H	H	Z	4,2[a]
66	H	H	H	H	H	CH_3	A1	[(4-fluorofenoxi)acetil]amino	H	H	H	Z	3,73[a]
67	H	H	H	H	H	CH_3	A1	formato de 4-[5-(piridinio-1-il)pentanoil]amino	H	H	H	Z	1,67[a]
68	H	H	H	H	H	CH_3	A1	[(1-feniletoxi)carbonil]amino	H	H	H	Z	4,23[a]
69	H	H	H	H	H	CH_3	A1	[2-(3-metoxifenoxi)propanoil]amino	H	H	H	Z	3,97[a]
70	H	H	H	H	H	cianometilo	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,31[a]
71	H	H	H	H	H	CH_3	A1	propanoilamino	H	H	H	Z	2,77[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
72	H	H	H	H	H	CH_3	A2	[(2,2-dimetilpropoxi)carbonil]amino	H			Z	4,01[a]
73	H	H	H	H	H	CH_3	A1	(5-bromopentanoil)amino	H	H	H	Z	3,59[a]
74	H	H	H	H	H	CH_3	A1	(2-feniletil)amino	H	H	H	Z	2,78[a]
75	H	H	H	H	H	CH_3	A2	(fenoxicarbonil)amino	H			Z	3,48[a]
76	H	H	H	H	H	CH_3	A1	[(2-metilfenoxi)acetil]amino	H	H	H	Z	4,17[a]
77	H	H	H	H	H	CH_3	A1	(3-ciclohexilpropanoil)amino	H	H	H	Z	4,73[a]
78	H	H	H	H	H	CH_3	A1	(biciclo[2.2.1]hept-2-ilacetil)amino	H	H	H	Z	4,39[a]
79	H	H	H	H	H	CH_3	A1	[(2-metil-2-fenilpropoxi)carbonil]amino	H	H	H	Z	4,71[a]
80	H	H	H	H	H	CH_3	A2	[2-(3-metilfenoxi)propanoil]amino	H			Z	3,99[a]
81	H	H	H	H	H	CH_3	A2	(2-bromobenzoil)amino	H			Z	3,51[a]
82	H	H	H	H	H	CH_3	A2	[2-(2-metilfenoxi)propanoil]amino	H			Z	4,12[a]
83	H	fluoro	H	H	H	CH_3	A1	amino	H	H	H	Z	1,34[a]
84	H	H	H	H	H	CH_3	A1	(3-ciclopentilpropanoil)amino	H	H	H	Z	4,36[a]
85	H	H	H	H	H	CH_3	A1	(3,4-dihidro-1H-isocromen-3-ilcarbonil)amino	H	H	H	Z	4,17[a]
86	H	H	H	H	H	prop-2-in-1-ilo	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,46[a]
87	H	CH_3	H	H	H	CH_3	A1	bis(terc-butoxicarbonil)amino	H	H	H	Z	4,77[a]
88	H	H	H	H	H	Etilo	A1	[(4-metoxifenil)acetil]amino	H	H	H	Z	3,7[a]
89	H	H	H	H	H	CH_3	A1	{[2-(4-fluorofenil)etoxi]carbonil}amino	H	H	H	Z	4,19[a]
90	H	H	H	H	cloro	CH_3	A2	amino	H			Z	1,72[a]
91	H	H	H	H	H	CH_3	A2	(2-metoxibenzoil)amino	H			Z	3,71[a]
92	H	fluoro	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,39[a]
93	H	H	H	H	H	CH_3	A1	(2-butoxipropanoil)amino	H	H	H	Z	4,3[a]
94	H	H	H	H	H	CH_3	A1	[(ciclopentiloxi)acetil]amino	H	H	H	Z	4,04[a]
95	H	H	H	H	H	CH_3	A1	(5-metilhexanoil)amino	H	H	H	Z	4,25[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
96	H	H	H	H	H	H	A1	amino	H	H	H	U	1,2[a]
97	fluoro	H	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,92[a]
98	H	H	H	H	H	CH_3	A1	nonanoilamino	H	H	H	Z	5,11[a]
99	H	H	H	H	H	CH_3	A1	oct-7-enoilamino	H	H	H	Z	4,3[a]
100	H	H	H	H	H	CH_3	A2	[(3-fluorofenoxi)acetil]amino	H			Z	3,58[a]
101	H	metoxi	H	H	H	CH_3	A1	[(4-metoxifenil)acetil]amino	H	H	H	Z	3,51[a]
102	H	H	H	H	H	CH_3	A1	(4-metilpentanoil)amino	H	H	H	Z	3,85[a]
103	H	H	H	H	H	CH_3	A2	[(ciclopentiloxi)carbonil]amino	H			Z	3,76[a]
104	H	H	H	H	H	Etilo	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,51[a]
105	H	H	H	H	H	CH_3	A1	[(3-clorofenoxi)acetil]amino	H	H	H	Z	4,1[a]
106	H	H	H	H	H	CH_3	A1	{[2-(2-clorofenil)etoxi]carbonil}amino	H	H	H	Z	4,56[a]
107	H	H	H	H	H	CH_3	A1	[(hexiloxi)carbonil]amino	H	H	H	Z	4,85[a]
108	H	metoxi	H	H	H	CH_3	A1	amino	H	H	H	Z	1,32[a]
109	H	H	H	H	H	CH_3	A1	[(prop-2-en-1-iloxi)carbonil]amino	H	H	H	Z	3,42[a]
110	H	H	H	H	H	CH_3	A1	[(ciclopentiloxi)carbonil]amino	H	H	H	Z	4,09[a]
111	H	H	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	3,89[a]
112	H	metoxi	H	H	H	CH_3	A1	[(ciclohexiloxi)carbonil]amino	H	H	H	Z	4,49[a]
113	H	H	H	H	H	CH_3	A2	[2-(2-bromofenoxi)propanoil]amino	H			Z	4,2[a]
114	H	H	H	H	H	CH_3	A1	(2-fluorobenzoil)amino	H	H	H	Z	3,73[a]
115	H	H	H	H	H	CH_3	A1	[2-(2-metoxifenoxi)propanoil]amino	H	H	H	Z	4,15[a]
116	H	H	H	H	H	CH_3	A1	(ciclohexilmetil)amino	H	H	H	Z	3,02[a]
117	H	CH_3	H	H	H	CH_3	A1	[(benciloxi)carbonil]amino	H	H	H	Z	4,31[a]
118	H	H	H	H	H	CH_3	A1	(ciclobutilcarbonil)amino	H	H	H	Z	3,27[a]
119	H	H	H	H	H	CH_3	A1	{[(1-metoxi-1-oxopropan-2-il)oxi]carbonil}amino	H	H	H	Z	3,17[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
120	H	H	H	H	H	CH_3	A1	{[(2-metilbutan-2-il)oxi]carbonil}amino	H	H	H	Z	1,99[a]
121	H	CH_3	H	H	H	H	A1	amino	H	H	H	U	1,47[a]
122	H	H	H	H	H	CH_3	A1	{[(5,5,5-trifluoropentil)oxi]carbonil}amino	H	H	H	Z	4,06[a]
123	H	H	H	H	H	CH_3	A2	[(2,4-diclorofenoxi)acetil]amino	H			Z	4,23[a]
124	H	H	H	H	H	CH_3	A1	(2-etilbutanoil)amino	H	H	H	Z	3,71[a]
125	H	H	H	H	H	CH_3	A1	[(2-fluorofenoxi)acetil]amino	H	H	H	Z	3,76[a]
126	H	H	H	H	H	CH_3	A2	[2-(benciloxi)propanoil]amino	H			Z	3,85[a]
127	H	H	H	H	H	Etilo	A1	[(pent-4-in-2-iloxi)carbonil]amino	H	H	H	Z	3,81[a]
128	H	H	H	H	H	CH_3	A1	[2-(3-metilfenoxi)propanoil]amino	H	H	H	Z	4,35[a]
129	H	fluoro	H	H	H	H	A1	amino	H	H	H	U	1,35[a]
130	H	H	H	H	H	Etilo	A1	(2,3-dihidro-1,4-benzodioxin-2-ilcarbonil)amino	H	H	H	Z	4,14[a]
131	H	metoxi	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,99[a]
132	H	H	H	H	H	CH_3	A1	(2-metilbutanoil)amino	H	H	H	Z	3,41[a]
133	H	H	H	H	H	CH_3	A1	{[2-(2-metilfenil)etoxi]carbonil}amino	H	H	H	Z	4,51[a]
134	H	H	H	H	H	CH_3	A1	2-furoilamino	H	H	H	Z	3,13[a]
135	H	H	H	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,76[a]
136	H	H	H	H	H	CH_3	A1	{(2E)-2-[(benciloxi)imino]etil}amino	H	H	H	Z	3,35[a]
137	H	H	H	H	H	CH_3	A1	[(1-metilciclopropil)carbonil]amino	H	H	H	Z	3,31[a]
138	H	H	H	H	H	CH_3	A1	(fenoxicarbonil)amino	H	H	H	Z	3,73[a]
139	H	fluoro	H	H	H	CH_3	A1	(2,2-dimetilpropanoil)amino	H	H	H	Z	3,61[a]
140	H	fluoro	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,61[a]
141	H	metoxi	H	H	H	CH_3	A1	bis(terc-butoxicarbonil)amino	H	H	H	Z	4,44[a]
142	H	CH_3	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	4,34[a]
143	H	H	H	H	H	CH_3	A2	(3-iodobenzoil)amino	H			Z	4,19[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
144	H	H	H	H	H	CH_3	A1	(4-metilbenzoil)amino	H	H	H	Z	3,85[a]
145	H	H	H	H	H	CH_3	A1	[(2-fenilpropoxi)carbonil]amino	H	H	H	Z	4,46[a]
146	H	H	H	H	H	CH_3	A1	[(3S,5S,7S)-adamantan-1-ilacetil]amino	H	H	H	Z	5,08[a]
147	H	H	H	H	H	CH_3	A1	(ciclohexilcarbonil)amino	H	H	H	Z	3,92[a]
148	H	H	H	H	H	CH_3	A1	(2,2-dimetilpropanoil)amino	H	H	H	Z	3,48[a]
149	H	metoxi	H	H	H	CH_3	A1	{[(4-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	4,72[a]
150	H	fluoro	H	H	H	CH_3	A2	[(pentiloxi)carbonil]amino	H			Z	4,19[a]
151	H	H	H	H	H	CH_3	A1	{[2-(3-metoxifenil)etoxi]carbonil}amino	H	H	H	Z	4,11[a]
152	H	H	H	H	H	Etilo	A1	(terc-butoxicarbonil)amino	H	H	H	Z	4,26[a]
153	H	H	H	H	H	CH_3	A1	(4-metilpent-3-enoil)amino	H	H	H	Z	3,59[a]
154	H	H	H	H	H	CH_3	A2	(2,2-dimetilpropanoil)amino	H			Z	3,42[a]
155	H	H	H	H	H	CH_3	A2	[2-(3-bromofenoxi)propanoil]amino	H			Z	4,17[a]
156	H	H	H	H	H	CH_3	A1	[2-(benciloxi)propanoil]amino	H	H	H	Z	4,15[a]
157	H	H	metoxi	H	H	CH_3	A1	amino	H	H	H	Z	1,35[a]
158	H	H	H	H	H	CH_3	A2	(2-iodobenzoil)amino	H			Z	3,6[a]
159	H	H	H	H	H	CH_3	A2	[(2-bromofenoxi)acetil]amino	H			Z	3,89[a]
160	H	H	H	H	H	CH_3	A2	(2,2-dimetilhexanoil)amino	H			Z	4,48[a]
161	H	H	fluoro	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,51[a]
162	H	H	H	H	H	CH_3	A1	[(terc-butilsulfanil)carbonil]amino	H	H	H	Z	4,39[a]
163	H	H	H	H	H	CH_3	A1	hexilamino	H	H	H	Z	2,64[a]
164	H	H	H	H	H	CH_3	A2	[(4-clorofenoxi)acetil]amino	H			Z	3,85[a]
165	H	H	H	H	H	CH_3	A1	[(1-fenilciclopropil)carbonil]amino	H	H	H	Z	4,43[a]
166	H	H	H	H	H	CH_3	A1	[3-(1-metilciclopropil)propanoil]amino	H	H	H	Z	3,87[a]
167	H	H	H	H	H	CH_3	A1	hept-6-enoilamino	H	H	H	Z	3,89[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
168	H	H	H	H	H	CH_3	A1	[(benciloxi)carbonil]amino	H	H	H	Z	3,99[a]
169	H	H	CH_3	H	H	CH_3	A2	pentanoilamino	H			Z	3,7[a]
170	H	H	H	H	H	CH_3	A1	(3-metil-2-furoil)amino	H	H	H	Z	3,71[a]
171	H	H	H	H	H	CH_3	A2	[(2-metoxifenoxi)acetil]amino	H			Z	3,55[a]
172	H	H	H	H	H	Etilo	A1	(2-metilpentanoil)amino	H	H	H	Z	4,06[a]
173	H	H	H	H	H	CH_3	A1	(3,3-dimetilbutanoil)amino	H	H	H	Z	3,78[a]
174	H	H	H	H	H	CH_3	A1	(4-iodobenzoil)amino	H	H	H	Z	4,29[a]
175	H	H	H	H	H	CH_3	A1	{[2-(2-metoxifenil)etoxi]carbonil}amino	H	H	H	Z	4,31[a]
176	H	H	H	H	H	Etilo	A1	pentanoilamino	H	H	H	Z	3,76[a]
177	H	H	H	H	H	CH_3	A1	isobutirilamino	H	H	H	Z	3,11[a]
178	H	H	H	H	H	CH_3	A1	(2-clorobenzoil)amino	H	H	H	Z	3,64[a]
179	H	H	H	H	H	CH_3	A1	[2-(3-bromofenoxi)propanoil]amino	H	H	H	Z	4,46[a]
180	H	H	H	H	H	CH_3	A2	(4-metilbenzoil)amino	H			Z	3,76[a]
181	H	H	H	H	H	CH_3	A1	(2-metoxibenzoil)amino	H	H	H	Z	3,87[a]
182	H	H	H	H	H	CH_3	A1	[(3-metilbutoxi)carbonil]amino	H	H	H	Z	4,39[a]
183	H	H	H	H	H	CH_3	A1	(butoxicarbotioil)amino	H	H	H	Z	4,53[a]
184	H	H	H	H	H	CH_3	A1	[3-(2-metoxifenil)propanoil]amino	H	H	H	Z	3,87[a]
185	H	H	metoxi	H	H	CH_3	A1	{[(4-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	4,72[a]
186	H	H	H	H	H	CH_3	A1	{[2-(2-fluorofenil)etoxi]carbonil}amino	H	H	H	Z	4,21[a]
187	H	H	H	H	H	CH_3	A1	(4-bromobenzoil)amino	H	H	H	Z	4,14[a]
188	H	H	H	H	H	CH_3	A1	[3-(metilsulfanil)propanoil]amino	H	H	H	Z	3,09[a]
189	H	H	H	H	H	CH_3	A1	[(2,2-dicloro-1-etil-3-metilciclopropil)carbonil]amino	H	H	H	Z	4,35[a]
190	H	H	H	H	H	CH_3	A1	[(2,5-dimetoxifenil)acetil]amino	H	H	H	Z	3,6[a]
191	H	H	metoxi	H	H	CH_3	A1	(trifluoroacetil)amino	H	H	H	Z	3,37[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
192	H	H	H	H	H	CH_3	A1	[(2-etilbutoxi)carbonil]amino	H	H	H	Z	4,78[a]
193	fluoro	H	H	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,68[a]
194	H	H	H	H	H	CH_3	A2	[(benciloxi)acetil]amino	H			Z	3,6[a]
195	H	H	H	H	H	CH_3	A2	[(ciclopentiloxi)acetil]amino	H			Z	3,73[a]
196	H	H	H	H	H	CH_3	A1	[(4-clorofenil)acetil]amino	H	H	H	Z	3,92[a]
197	H	H	H	H	H	CH_3	A1	dietilamino	H	H	H	Z	2,63[a]
198	H	H	H	H	H	CH_3	A2	hexanoilamino	H			Z	3,76[a]
199	H	H	H	H	H	CH_3	A1	{[(1-etoxipropan-2-il)oxi]carbonil}amino	H	H	H	Z	3,53[a]
200	H	H	H	H	H	CH_3	A1	[(hexan-2-iloxi)carbonil]amino	H	H	H	Z	4,78[a]
201	H	H	H	H	H	Etilo	A1	[(benciloxi)carbonil]amino	H	H	H	Z	4,24[a]
202	H	H	H	H	H	CH_3	A1	(3,5-difluorobenzoil)amino	H	H	H	Z	3,92[a]
203	H	fluoro	H	H	H	CH_3	A2	(fenilacetil)amino	H			Z	3,46[a]
204	H	H	H	H	H	CH_3	A1	[2-(4-bromofenoxi)propanoil]amino	H	H	H	Z	4,46[a]
205	H	H	H	H	H	CH_3	A1	[(4,4,4-trifluorobutoxi)carbonil]amino	H	H	H	Z	3,85[a]
206	H	fluoro	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	4,09[a]
207	H	H	H	H	H	Etilo	A1	[(hex-5-in-2-iloxi)carbonil]amino	H	H	H	Z	4,04[a]
208	H	H	H	H	H	CH_3	A1	(ciclohexilacetil)amino	H	H	H	Z	4,26[a]
209	H	H	H	H	H	Etilo	A1	amino	H	H	H	Z	1,42[a]
210	H	H	H	H	H	CH_3	A1	{[2-(3-metilfenil)etoxi]carbonil}amino	H	H	H	Z	4,53[a]
211	H	metoxi	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	3,92[a]
212	H	H	H	H	H	CH_3	A2	(3-metoxibenzoil)amino	H			Z	3,58[a]
213	H	H	H	H	H	CH_3	A2	[(2-metilfenoxi)acetil]amino	H			Z	3,85[a]
214	H	H	fluoro	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,78[a]
215	H	CH_3	H	H	H	CH_3	A1	(butoxicarbonil)amino	H	H	H	Z	4,36[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
216	H	H	H	H	H	CH_3	A2	[2-(4-bromofenoxi)propanoil]amino	H			Z	4,17[a]
217	H	H	H	H	H	CH_3	A1	(4-metoxibenzoil)amino	H	H	H	Z	3,53[a]
218	H	H	H	H	H	CH_3	A1	[metoxi(fenil)acetil]amino	H	H	H	Z	3,85[a]
219	H	H	H	H	H	CH_3	A2	[2-(2-metoxifenoxi)propanoil]amino	H			Z	3,89[a]
220	H	H	H	H	H	CH_3	A2	[difluoro(fenoxi)acetil]amino	H			Z	3,89[a]
221	H	H	H	H	H	CH_3	A1	(2,2-dimetilbutanoil)amino	H	H	H	Z	3,8[a]
222	H	H	H	H	H	CH_3	A1	{[1-(2,4-diclorofenil)ciclopropil]carbonil}amino	H	H	H	Z	4,96[a]
223	H	CH_3	H	H	H	CH_3	A1	{[(4-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	5,05[a]
224	H	CH_3	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,78[a]
225	H	H	H	H	H	CH_3	A1	[(2-metilpropoxi)carbonil]amino	H	H	H	Z	4,01[a]
226	H	H	H	H	H	CH_3	A1	[(pent-4-in-2-iloxi)carbonil]amino	H	H	H	Z	3,57[a]
227	H	H	H	H	H	CH_3	A1	(3,4-dihidro-1H-isocromen-1-ilcarbonil)amino	H	H	H	Z	4,1[a]
228	H	metoxi	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,33[a]
229	H	H	H	H	H	CH_3	A2	[(4-metilfenoxi)acetil]amino	H			Z	3,8[a]
230	H	H	H	H	H	CH_3	A1	l-4-({[(1R,2R)-2-fenilciclopropil]carbonil}amino)	H	H	H	Z	4,04[a]
231	H	H	H	H	H	CH_3	A1	[2-(2-clorofenoxi)propanoil]amino	H	H	H	Z	4,41[a]
232	H	H	H	H	H	CH_3	A1	(2-fenoxipropanoil)amino	H	H	H	Z	3,96[a]
233	H	H	H	H	H	CH_3	A1	{[(2-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	4,77[a]
234	H	fluoro	H	H	H	CH_3	A2	(2,3-dihidro-1,4-benzodioxin-2-ilcarbonil)amino	H			Z	3,7[a]
235	H	H	H	H	H	CH_3	A1	(3,7-dimetiloct-6-enoil)amino	H	H	H	Z	4,88[a]
236	H	H	H	H	H	CH_3	A1	(1-ciclohexilpropan-2-il)amino	H	H	H	Z	5,14[a]
237	H	H	H	H	H	CH_3	A1	(3,3,3-trifluoropropanoil)amino	H	H	H	Z	3,19[a]
238	H	H	H	H	H	CH_3	A1	{[2-(4-bromofenil)etoxi]carbonil}amino	H	H	H	Z	4,63[a]
239	H	H	H	H	H	CH_3	A2	[(benciloxi)carbonil]amino	H			Z	3,73[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
240	H	H	H	H	H	CH_3	A1	(butoxiacetil)amino	H	H	H	Z	3,97[a]
241	H	H	H	H	H	CH_3	A1	{[(2-metilpropil)sulfanil]carbonil}amino	H	H	H	Z	4,39[a]
242	H	H	H	H	H	CH_3	A1	[(but-3-in-2-iloxi)carbonil]amino	H	H	H	Z	3,41[a]
243	H	H	H	H	H	CH_3	A1	(2-bromobenzoil)amino	H	H	H	Z	3,67[a]
244	H	H	H	H	H	CH_3	A1	(2-metilhexanoil)amino	H	H	H	Z	4,2[a]
245	H	H	H	H	H	CH_3	A1	(4-clorobenzoil)amino	H	H	H	Z	4,01[a]
246	H	H	fluoro	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	4,06[a]
247	H	H	H	H	H	CH_3	A1	(5,5-dimetilhexanoil)amino	H	H	H	Z	4,53[a]
248	H	H	H	H	H	CH_3	A1	(2-metilpentanoil)amino	H	H	H	Z	3,8[a]
249	fluoro	fluoro	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	E	3,94[a]
250	H	CH_3	H	H	H	CH_3	A1	[(ciclohexiloxi)carbonil]amino	H	H	H	Z	4,82[a]
251	H	H	H	H	H	CH_3	A2	(4-fluorobenzoil)amino	H			Z	3,55[a]
252	H	H	CH_3	H	H	CH_3	A2	(fenilacetil)amino	H			Z	3,65[a]
253	H	H	H	H	H	CH_3	A1	(2-ciclohexiletil)amino	H	H	H	Z	2,96[a]
254	fluoro	fluoro	H	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	4,01[a]
255	H	H	H	H	H	CH_3	A1	[(2,5-difluorofenil)acetil]amino	H	H	H	Z	3,62[a]
256	H	H	H	H	H	CH_3	A1	pent-4-enoilamino	H	H	H	Z	3,25[a]
257	H	H	H	H	H	CH_3	A2	(fenilcarbonil)amino	H			Z	3,44[a]
258	H	H	fluoro	H	H	CH_3	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,24[a]
259	H	H	fluoro	H	H	CH_3	A1	amino	H	H	H	Z	1,41[a]
260	H	H	H	H	H	CH_3	A1	[2-(4-clorofenoxi)propanoil]amino	H	H	H	Z	4,35[a]
261	H	fluoro	H	H	H	CH_3	A1	bis(terc-butoxicarbonil)amino	H	H	H	Z	4,51[a]
262	H	H	H	H	H	CH_3	A2	(2,4-diclorobenzoil)amino	H			Z	3,94[a]
263	H	H	H	H	H	CH_3	A2	(3,5-difluorobenzoil)amino	H			Z	3,8[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
264	H	H	H	H	H	CH_3	A1	(tiofen-2-ilacetil)amino	H	H	H	Z	3,42[a]
265	H	H	H	H	H	CH_3	A2	(propoxicarbonil)amino	H			Z	3,35[a]
266	H	H	H	H	H	CH_3	A1	butanoilamino	H	H	H	Z	3,13[a]
267	H	H	H	H	H	CH_3	A1	(4-ciclohexilbutanoil)amino	H	H	H	Z	5,14[a]
268	H	H	H	H	H	CH_3	A1	[(6E)-8-metilnon-6-enoil]amino	H	H	H	Z	5,06[a]
269	H	H	H	H	H	CH_3	A1	[(2-bromofenoxi)acetil]amino	H	H	H	Z	4,25[a]
270	H	H	H	H	H	Etilo	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,41[a]
271	H	H	H	H	H	CH_3	A2	butanoilamino	H			Z	3,02[a]
272	H	CH_3	H	H	H	CH_3	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,49[a]
273	H	H	H	H	H	CH_3	A1	{[(4-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	4,68[a]
274	H	H	H	H	H	CH_3	A1	[(2,4-diclorofenoxi)acetil]amino	H	H	H	Z	4,61[a]
275	H	H	H	H	H	CH_3	A1	[2-(2-bromofenoxi)propanoil]amino	H	H	H	Z	4,53[a]
276	H	H	H	H	H	CH_3	A2	[2-(4-clorofenoxi)propanoil]amino	H			Z	4,07[a]
277	H	H	H	H	H	CH_3	A1	[4-(4-cloro-2-metilfenoxi)butanoil]amino	H	H	H	Z	4,73[a]
278	H	H	H	H	H	CH_3	A1	[(benciloxi)acetil]amino	H	H	H	Z	3,87[a]
279	H	H	H	H	H	CH_3	A1	(terc-butoxicarbonil)(2-ciclohexiletil)amino	H	H	H	Z	6,73[a]
280	H	H	H	H	H	Etilo	A1	(3-metilbutanoil)amino	H	H	H	Z	3,7[a]
281	H	H	H	H	H	CH_3	A1	(3-iodobenzoil)amino	H	H	H	Z	4,31[a]
282	H	H	H	H	H	CH_3	A1	[(pentan-2-iloxi)carbonil]amino	H	H	H	Z	4,36[a]
283	H	H	H	H	H	CH_3	A1	(propoxicarbotioil)amino	H	H	H	Z	4,11[a]
284	H	H	H	H	H	CH_3	A1	(2-etilhexanoil)amino	H	H	H	Z	4,49[a]
285	H	H	H	H	H	CH_3	A1	[(heptan-2-iloxi)carbonil]amino	H	H	H	Z	5,19[a]
286	H	H	H	H	H	CH_3	A2	[(2-metilpropoxi)carbonil]amino	H			Z	3,71[a]
287	H	H	H	H	H	CH_3	A1	[2-(4-metilfenoxi)propanoil]amino	H	H	H	Z	4,35[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
288	H	H	H	H	H	CH_3	A1	[(2-cianoetoxi)carbonil]amino	H	H	H	Z	2,78[a]
289	H	H	H	H	H	CH_3	A2	(3-bromobenzoil)amino	H			Z	4,04[a]
290	H	metoxi	H	H	H	CH_3	A1	[(benciloxi)carbonil]amino	H	H	H	Z	4,04[a]
291	H	H	H	H	H	CH_3	A1	[(4-metil-3,4-dihidro-1H-isocromen-3-il)carbonil]amino	H	H	H	Z	4,35[a]
292	H	H	H	H	H	CH_3	A1	{[(3-metilbutan-2-il)oxi]carbonil}amino	H	H	H	Z	4,27[a]
293	H	H	H	H	H	CH_3	A1	{[(4,4,5,5,5-pentafluoropentil)oxi]carbonil}amino	H	H	H	Z	4,29[a]
294	H	H	H	H	H	CH_3	A1	(2-fenoxibenzoil)amino	H	H	H	Z	4,76[a]
295	H	fluoro	H	H	H	CH_3	A1	(butoxicarbonil)amino	H	H	H	Z	4,14[a]
296	H	H	H	H	H	CH_3	A1	[(4-metilfenoxi)acetil]amino	H	H	H	Z	4,07[a]
297	H	fluoro	H	H	H	CH_3	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,26[a]
298	H	H	H	H	H	CH_3	A1	{[2-(2-bromofenil)etoxi]carbonil}amino	H	H	H	Z	4,66[a]
299	H	CH_3	H	H	H	CH_3	A1	(terc-butoxicarbonil)(hexil)amino	H	H	H	Z	6,57[a]
300	H	H	H	H	H	Etilo	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,72[a]
301	H	H	H	H	H	CH_3	A1	[3-(4-fluorofenil)propanoil]amino	H	H	H	Z	3,81[a]
302	H	H	H	H	H	CH_3	A1	hex-5-inoilamino	H	H	H	Z	3,17[a]
303	H	H	H	H	H	CH_3	A1	decanoilamino	H	H	H	Z	5,54[a]
304	H	H	H	H	H	CH_3	A1	acriloilamino	H	H	H	Z	2,77[a]
305	H	H	H	H	H	CH_3	A1	{[(3,3-dimetilbutan-2-il)oxi]carbonil}amino	H	H	H	Z	4,56[a]
306	H	H	H	H	H	CH_3	A1	{[(1,3-dicloropropan-2-il)oxi]carbonil}amino	H	H	H	Z	3,83[a]
307	H	H	H	H	H	CH_3	A1	[difluoro(fenoxi)acetil]amino	H	H	H	Z	4,08[a]
308	H	H	CH_3	H	H	H	A2	amino	H			Z	1,84[a]
309	H	H	H	H	H	CH_3	A1	[(1-fluorociclopropil)carbonil]amino	H	H	H	Z	3,31[a]
310	H	H	H	H	H	CH_3	A1	{[2-(4-metoxifenil)etoxi]carbonil}amino	H	H	H	Z	4,08[a]
311	H	H	H	H	H	CH_3	A1	[(3-fluorofenoxi)acetil]amino	H	H	H	Z	3,78[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
312	H	H	H	H	H	CH_3	A2	[2-(4-metilfenoxi)propanoil]amino	H			Z	4,02[a]
313	H	H	H	H	H	CH_3	A1	(fenoxiacetil)amino	H	H	H	Z	3,73[a]
314	H	H	H	H	H	CH_3	A2	[(3-bromofenoxi)acetil]amino	H			Z	3,94[a]
315	H	H	H	H	H	CH_3	A2	(fenoxiacetil)amino	H			Z	3,51[a]
316	H	H	H	H	H	CH_3	A1	(2,2-dimetilhexanoil)amino	H	H	H	Z	4,63[a]
317	H	H	H	H	H	CH_3	A1	{[(2-metilbut-3-in-2-il)oxi]carbonil}amino	H	H	H	Z	3,6[a]
318	H	H	H	H	H	CH_3	A2	[(3-metoxifenoxi)acetil]amino	H			Z	3,53[a]
319	H	H	CH_3	H	H	CH_3	A2	(2-fenoxipropanoil)amino	H			Z	3,99[a]
320	H	H	H	H	H	CH_3	A1	[(butilsulfanil)carbonil]amino	H	H	H	Z	4,41[a]
321	H	H	H	H	H	CH_3	A2	[2-(3-clorofenoxi)propanoil]amino	H			Z	4,1[a]
322	H	H	H	H	H	CH_3	A2	(2-fenoxibutanoil)amino	H			Z	3,99[a]
323	H	H	H	H	H	CH_3	A1	(biciclo[2.2.1]hept-5-en-2-ilcarbonil)amino	H	H	H	Z	3,68[a]
324	H	H	fluoro	H	H	CH_3	A1	(3-fenilpropanoil)amino	H	H	H	Z	3,87[a]
325	H	metoxi	H	H	H	CH_3	A1	[(2-feniletoxi)carbonil]amino	H	H	H	Z	4,19[a]
326	H	H	CH_3	H	H	CH_3	A2	amino	H			Z	1,82[a]
327	H	H	H	H	H	CH_3	A1	(2,5-dimetilbenzoil)amino	H	H	H	Z	4,06[a]
328	H	metoxi	H	H	H	CH_3	A1	(2-metilpentanoil)amino	H	H	H	Z	3,87[a]
329	H	H	H	H	H	CH_3	A1	(3-fenoxibenzoil)amino	H	H	H	Z	4,61[a]
330	H	H	H	H	H	CH_3	A1	bis[(4-fluorofenoxi)carbonil]amino	H	H	H	Z	4,2[a]
331	H	H	H	H	H	CH_3	A1	(2-iodobenzoil)amino	H	H	H	Z	3,76[a]
332	H	H	H	H	H	CH_3	A1	(2,4-diclorobenzoil)amino	H	H	H	Z	4,14[a]
333	H	H	metoxi	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,69[a]
334	H	H	H	H	H	CH_3	A1	[(3-metilfenoxi)acetil]amino	H	H	H	Z	4,07[a]
335	H	H	H	H	H	CH_3	A1	[(2-bromofenil)acetil]amino	H	H	H	Z	3,85[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
336	H	H	H	H	H	CH_3	A2	(2,5-dimetilbenzoil)amino	H			Z	3,94[a]
337	H	H	H	H	H	CH_3	A1	{[(2-metilpentil)oxi]carbonil}amino	H	H	H	Z	4,83[a]
338	H	fluoro	H	H	H	CH_3	A2	(2-fenoxipropanoil)amino	H			Z	3,76[a]
339	H	H	CH_3	H	H	CH_3	A2	[(ciclohexiloxi)carbonil]amino	H			Z	4,48[a]
340	H	H	H	H	H	CH_3	A1	(3-metilbutanoil)amino	H	H	H	Z	3,44[a]
341	H	H	H	H	H	CH_3	A1	(fenilacetil)amino	H	H	H	Z	3,53[a]
342	H	H	H	H	H	CH_3	A1	[(prop-2-in-1-iloxi)carbonil]amino	H	H	H	Z	3,13[a]
343	H	CH_3	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,59[a]
344	H	H	H	H	H	CH_3	A1	(3-metilbenzoil)amino	H	H	H	Z	3,87[a]
345	H	H	H	H	H	CH_3	A1	(5-metil-2-furoil)amino	H	H	H	Z	3,46[a]
346	H	H	H	H	H	CH_3	A1	[3-(4-clorofenil)propanoil]amino	H	H	H	Z	4,17[a]
347	H	H	H	H	H	CH_3	A1	(3-fenilpropanoil)amino	H	H	H	Z	3,78[a]
348	H	H	H	H	H	CH_3	A1	(2,2,3,3,4,4,4-heptafluorobutanoil)amino	H	H	H	Z	4,17[a]
349	H	H	H	H	H	CH_3	A1	{[2-(4-clorofenil)etoxi]carbonil}amino	H	H	H	Z	4,53[a]
350	H	H	H	H	H	CH_3	A1	[(2-metilbutoxi)carbonil]amino	H	H	H	Z	4,44[a]
351	H	H	fluoro	H	H	CH_3	A1	[(ciclohexiloxi)carbonil]amino	H	H	H	Z	4,54[a]
352	H	H	H	H	H	CH_3	A1	(3,4-diclorobenzoil)amino	H	H	H	Z	4,54[a]
353	H	H	H	H	H	CH_3	A1	{[(2-metilhexan-2-il)oxi]carbonil}amino	H	H	H	Z	5,1[a]
354	H	metoxi	H	H	H	H	A1	amino	H	H	H	U	1,29[a]
355	H	CH_3	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	4,24[a]
356	H	H	H	H	H	CH_3	A2	[(3-metilfenoxi)acetil]amino	H			Z	3,8[a]
357	H	H	H	H	H	CH_3	A1	(4-fenoxibenzoil)amino	H	H	H	Z	4,58[a]
358	H	metoxi	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,55[a]
359	H	H	H	H	H	CH_3	A1	{[2-(3-clorofenil)etoxi]carbonil}amino	H	H	H	Z	4,51[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
360	H	H	CH_3	H	H	CH_3	A2	formil(metil)amino	H			Z	3,06[a]
361	H	metoxi	H	H	H	CH_3	A1	(butoxicarbonil)amino	H	H	H	Z	4,06[a]
362	H	metoxi	H	H	H	CH_3	A1	(3-metilbutanoil)amino	H	H	H	Z	3,46[a]
363	H	H	H	H	H	CH_3	A1	[(but-3-en-1-iloxi)carbonil]amino	H	H	H	Z	3,71[a]
364	H	H	H	H	H	CH_3	A1	(4-fluorobenzoil)amino	H	H	H	Z	3,62[a]
365	H	H	H	H	H	CH_3	A1	(ciclopentilacetil)amino	H	H	H	Z	3,92[a]
366	H	H	H	H	H	CH_3	A2	[2-(2-clorofenoxi)propanoil]amino	H			Z	4,07[a]
367	H	H	H	H	H	CH_3	A1	(2-acetoxi-2-metilpropanoil)amino	H	H	H	Z	3,15[a]
368	H	H	H	H	H	CH_3	A2	[(3-clorofenoxi)acetil]amino	H			Z	3,87[a]
369	H	H	H	H	H	CH_3	A1	{[2-(4-metilfenil)etoxi]carbonil}amino	H	H	H	Z	4,53[a]
370	H	fluoro	H	H	H	CH_3	A2	pentanoilamino	H			Z	3,48[a]
371	H	H	H	H	H	CH_3	A1	[(2,2-dicloro-1-isopropilciclopropil)carbonil]amino	H	H	H	Z	4,35[a]
372	H	H	H	H	H	CH_3	A1	[(2,2-dimetilpropoxi)carbonil]amino	H	H	H	Z	4,36[a]
373	H	H	H	H	H	CH_3	A2	(4-bromobenzoil)amino	H			Z	4,01[a]
374	H	H	H	H	H	CH_3	A1	(6-bromohexanoil)amino	H	H	H	Z	3,85[a]
375	H	H	H	H	H	CH_3	A1	[(4-metilfenil)acetil]amino	H	H	H	Z	3,85[a]
376	H	fluoro	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	3,99[a]
377	H	H	H	H	H	CH_3	A1	(4-fenilbutanoil)amino	H	H	H	Z	4,04[a]
378	H	H	H	H	H	CH_3	A2	(fenilacetil)amino	H			Z	3,37[a]
379	H	H	H	H	H	CH_3	A1	(metoxiacetil)amino	H	H	H	Z	2,73[a]
380	H	H	H	H	H	CH_3	A1	(3-bromobenzoil)amino	H	H	H	Z	4,16[a]
381	H	H	H	H	H	CH_3	A1	(2-naftilacetil)amino	H	H	H	Z	4,12[a]
382	H	H	H	H	H	CH_3	A1	[(3-bromofenoxi)acetil]amino	H	H	H	Z	4,2[a]
383	H	H	fluoro	H	H	CH_3	A1	{[(4-metilpentan-2-il)oxi]carbonil}amino	H	H	H	Z	4,77[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
384	H	CH_3	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,83[a]
385	H	H	H	H	H	CH_3	A1	[(butilsulfanil)carbotioil]amino	H	H	H	Z	4,8[a]
386	H	H	H	H	H	CH_3	A1	(2-fenilbutanoil)amino	H	H	H	Z	4,23[a]
387	H	CH_3	H	H	H	CH_3	A1	(2,2-dimetilpropanoil)amino	H	H	H	Z	3,85[a]
388	H	H	H	H	H	CH_3	A1	(ciclopentilcarbonil)amino	H	H	H	Z	3,62[a]
389	H	H	H	H	H	CH_3	A1	(3-ciclobutilpropanoil)amino	H	H	H	Z	4,02[a]
390	H	H	H	H	H	CH_3	A1	[2-(ciclopropilmetoxi)propanoil]amino	H	H	H	Z	3,78[a]
391	H	CH_3	H	H	H	CH_3	A1	(3-fluorobenzoil)amino	H	H	H	Z	3,99[a]
392	H	H	CH_3	H	H	CH_3	A2	(2,3-dihidro-1,4-benzodioxin-2-ilcarbonil)amino	H			Z	3,9[a]
393	H	H	H	H	H	CH_3	A2	(4-metoxibenzoil)amino	H			Z	3,48[a]
394	H	H	H	H	H	CH_3	A2	[(but-3-en-1-iloxi)carbonil]amino	H			Z	3,44[a]
395	H	H	H	H	H	CH_3	A1	[(hex-5-in-2-iloxi)carbonil]amino	H	H	H	Z	3,8[a]
396	H	H	metoxi	H	H	CH_3	A1	(terc-butoxicarbonil)amino	H	H	H	Z	3,96[a]
397	H	H	H	H	H	CH_3	A1	{[1-(4-metilfenil)ciclopropil]carbonil}amino	H	H	H	Z	4,76[a]
398	H	H	H	H	H	CH_3	A1	[2-(2-metilfenoxi)propanoil]amino	H	H	H	Z	4,46[a]
399	H	metoxi	H	H	H	CH_3	A1	(3-fluorobenzoil)amino	H	H	H	Z	3,72[a]
400	H	H	H	H	H	CH_3	A1	[(2-etoxietoxi)carbonil]amino	H	H	H	Z	3,17[a]
401	H	H	H	H	H	CH_3	A1	(3,4-dimetilbenzoil)amino	H	H	H	Z	4,16[a]
402	H	H	H	H	H	CH_3	A1	[(4-clorofenoxi)acetil]amino	H	H	H	Z	4,1[a]
403	H	H	H	H	H	Etilo	A1	(3-fenilpropanoil)amino	H	H	H	Z	4,01[a]
404	H	H	H	H	H	CH_3	A1	(5-cloropentanoil)amino	H	H	H	Z	3,44[a]
405	H	H	H	H	H	prop-2-en-1-ilo	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,61[a]
406	H	fluoro	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,53[a]
407	H	metoxi	H	H	H	CH_3	A1	(2,2-dimetilpropanoil)amino	H	H	H	Z	3,55[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
408	H	H	H	H	H	CH_3	A1	[(3-ciclopentilpropoxi)carbonil]amino	H	H	H	Z	5,31[a]
409	H	H	H	H	H	CH_3	A1	{[(2-metoxibencil)oxi]carbonil}amino	H	H	H	Z	4,06[a]
410	H	H	H	H	H	CH_3	A2	(butoxicarbotioil)amino	H			Z	4,56[a]
411	H	H	H	H	H	CH_3	A1	[(piridin-4-ilmetoxi)carbonil]amino	H	H	H	Z	2,01[a]
412	H	H	H	H	H	CH_3	A1	{[(3-metiloxetan-3-il)metoxi]carbonil}amino	H	H	H	Z	2,96[a]
413	H	H	H	H	H	CH_3	A1	{[(2-clorobencil)oxi]carbonil}amino	H	H	H	Z	4,34[a]
414	H	H	H	H	H	CH_3	A1	[(but-2-in-1-iloxi)carbonil]amino	H	H	H	Z	3,42[a]
415	H	H	H	H	H	CH_3	A1	[(oct-2-in-1-iloxi)carbonil]amino	H	H	H	Z	4,86[a]
416	fluoro	fluoro	H	H	H	CH_3	A1	amino	H	H	H	E	1,26[a]
417	fluoro	fluoro	H	H	H	CH_3	A1	[(ciclohexiloxi)carbonil]amino	H	H	H	Z	4,46[a]
418	H	H	H	H	H	CH_3	A1	[(hept-2-in-1-iloxi)carbonil]amino	H	H	H	Z	4,51[a]
419	H	H	H	H	H	CH_3	A1	[(heptiloxi)carbonil]amino	H	H	H	Z	5,25[a]
420	fluoro	fluoro	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,55[a]
421	H	H	H	H	H	CH_3	A1	(etoxicarbonil)amino	H	H	H	Z	3,21[a]
422	H	H	H	H	H	CH_3	A1	{[3-(trimetilsilil)propoxi]carbonil}amino	H	H	H	Z	5,28[a]
423	H	H	H	H	H	CH_3	A1	[(3,3-dimetilbutoxi)carbonil]amino	H	H	H	Z	4,68[a]
424	H	H	H	H	H	CH_3	A1	{[3-cloro-2-(hidroximetil)-2-metilpropoxi]carbonil}amino	H	H	H	Z	3,19[a]
425	H	H	H	H	H	CH_3	A1	[(4-metilfenoxi)carbonil]amino	H	H	H	Z	4,03[a]
426	H	H	H	H	H	CH_3	A1	[(2-propilfenoxi)carbonil]amino	H	H	H	Z	4,54[a]
427	H	H	H	H	H	CH_3	A1	[(propan-2-iloxi)carbonil]amino	H	H	H	Z	3,55[a]
428	H	H	H	H	H	CH_3	A1	{[(2,6-diclorobencil)oxi]carbonil}amino	H	H	H	Z	4,56[a]
429	H	H	H	H	H	CH_3	A1	[(3-metoxibutoxi)carbonil]amino	H	H	H	Z	3,37[a]
430	H	H	H	H	H	CH_3	A1	[(2-etilfenoxi)carbonil]amino	H	H	H	Z	4,25[a]
431	H	H	H	H	H	CH_3	A1	[(3-etoxipropoxi)carbonil]amino	H	H	H	Z	3,44[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
432	H	H	H	H	H	CH_3	A1	{[(4-cianobencil)oxi]carbonil}amino	H	H	H	Z	3,61[a]
433	H	H	H	H	H	CH_3	A1	[(tetrahidro-2H-piran-2-ilmetoxi)carbonil]amino	H	H	H	Z	3,5[a]
434	H	H	H	H	H	CH_3	A1	[(piridin-3-ilmetoxi)carbonil]amino	H	H	H	Z	2,17[a]
435	H	H	H	H	H	CH_3	A1	[(3-etilfenoxi)carbonil]amino	H	H	H	Z	4,34[a]
436	H	H	H	H	H	CH_3	A1	[(pent-4-in-1-iloxi)carbonil]amino	H	H	H	Z	3,51[a]
437	H	H	H	H	H	CH_3	A1	[(piridin-2-ilmetoxi)carbonil]amino	H	H	H	Z	2,64[a]
438	H	H	H	H	H	CH_3	A1	[(2-ciclopropiletoxi)carbonil]amino	H	H	H	Z	4,01[a]
439	H	H	H	H	H	CH_3	A1	{[2-(2-etoxietoxi)etoxi]carbonil}amino	H	H	H	Z	3,13[a]
440	H	H	H	H	H	CH_3	A1	{[(trimetilsilil)metoxi]carbonil}amino	H	H	H	Z	4,53[a]
441	H	H	H	H	H	CH_3	A1	{[(3-metoxibencil)oxi]carbonil}amino	H	H	H	Z	3,96[a]
442	H	H	H	H	cloro	CH_3	A2	(2,3-dihidro-1,4-benzodioxin-2-ilcarbonil)amino	H			Z	3,73[a]
443	H	H	H	H	H	CH_3	A1	({[3-(trimetilsilil)prop-2-in-1-il]oxi}carbonil)amino	H	H	H	Z	4,63[a]
444	fluoro	H	H	H	H	CH_3	A1	[(pentiloxi)carbonil]amino	H	H	H	Z	4,34[a]
445	H	H	H	H	H	CH_3	A1	{[(1,1,1-tricloro-2-metilpropan-2-il)oxi]carbonil}amino	H	H	H	Z	4,91[a]
446	H	H	H	H	H	CH_3	A1	{[(4-oxopentil)oxi]carbonil}amino	H	H	H	Z	2,96[a]
447	H	H	H	H	H	CH_3	A1	{[2-(2-cloroetoxi)etoxi]carbonil}amino	H	H	H	Z	3,29[a]
448	H	H	H	H	H	CH_3	A1	{[(4-metilpent-3-en-1-il)oxi]carbonil}amino	H	H	H	Z	4,39[a]
449	fluoro	H	H	H	H	CH_3	A1	(2-metilpentanoil)amino	H	H	H	Z	3,73[a]
450	H	H	H	H	H	CH_3	A1	{[(4-metoxibencil)oxi]carbonil}amino	H	H	H	Z	3,92[a]
451	H	H	H	H	H	CH_3	A1	{[(2,4,4-trimetilpentil)oxi]carbonil}amino	H	H	H	Z	5,39[a]
452	H	H	H	H	H	CH_3	A1	[(hept-6-en-3-in-1-iloxi)carbonil]amino	H	H	H	Z	4,01[a]
453	H	H	H	H	H	CH_3	A1	{[(3Z)-hept-3-en-1-iloxi]carbonil}amino	H	H	H	Z	4,81[a]
454	H	H	H	H	H	CH_3	A1	[(hex-5-en-1-iloxi)carbonil]amino	H	H	H	Z	4,39[a]
455	H	H	H	H	H	CH_3	A1	[(hex-4-in-2-iloxi)carbonil]amino	H	H	H	Z	3,89[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
456	H	H	H	H	H	CH_3	A1	[(2-fenoxietoxi)carbonil]amino	H	H	H	Z	3,94[a]
457	H	H	H	H	H	CH_3	A1	[(3-metoxi-3-metilbutoxi)carbonil]amino	H	H	H	Z	3,59[a]
458	H	H	H	H	H	CH_3	A1	{[(3-metilbencil)oxi]carbonil}amino	H	H	H	Z	4,34[a]
459	H	H	H	H	H	CH_3	A1	[(2-bromoetoxi)carbonil]amino	H	H	H	Z	3,42[a]
460	fluoro	fluoro	H	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	U	3,76[a]
461	H	H	H	H	H	CH_3	A1	[(2,2-dicloroetoxi)carbonil]amino	H	H	H	Z	3,74[a]
462	H	H	H	H	H	CH_3	A1	l-4-[({[(1R,2S,5R)-2-isopropil-5-metilciclohexil]oxi}carbonil)amino]	H	H	H	Z	5,9[a]
463	H	H	H	H	H	CH_3	A1	{[(2-etilhexil)oxi]carbonil}amino	H	H	H	Z	5,54[a]
464	fluoro	fluoro	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	3,92[a]
465	H	H	H	H	H	CH_3	A1	[(octiloxi)carbonil]amino	H	H	H	Z	5,65[a]
466	H	H	H	H	H	CH_3	A1	[(prop-1-en-2-iloxi)carbonil]amino	H	H	H	Z	3,37[a]
467	H	H	H	H	H	CH_3	A1	[(4-propilfenoxi)carbonil]amino	H	H	H	Z	4,74[a]
468	H	H	H	H	H	CH_3	A1	{[(3-fenilprop-2-in-1-il)oxi]carbonil}amino	H	H	H	Z	4,25[a]
469	H	H	H	H	H	CH_3	A1	[(3-propilfenoxi)carbonil]amino	H	H	H	Z	4,72[a]
470	H	H	H	H	H	CH_3	A1	[(mesitiloxi)carbonil]amino	H	H	H	Z	4,56[a]
471	H	H	H	H	H	CH_3	A1	{[2-(piridin-2-il)etoxi]carbonil}amino	H	H	H	Z	2,07[a]
472	H	H	H	H	H	CH_3	A1	{[3-(dimetilamino)propoxi]carbonil}amino	H	H	H	Z	1,88[a]
473	H	H	H	H	H	CH_3	A1	[(ciclopropilmetoxi)carbonil]amino	H	H	H	Z	3,64[a]
474	H	H	H	H	H	CH_3	A1	{[(2-oxo-1,3-dioxolan-4-il)metoxi]carbonil}amino	H	H	H	Z	2,75[a]
475	H	H	H	H	H	CH_3	A1	{[(1-ciclopropilpropan-2-il)oxi]carbonil}amino	H	H	H	Z	4,32[a]
476	H	H	H	H	H	CH_3	A1	4-{[(4-nitrobencil)oxi]carbonil}amino	H	H	H	Z	3,83[a]
477	H	H	H	H	H	CH_3	A1	{[(3-cianobencil)oxi]carbonil}amino	H	H	H	Z	3,65[a]
478	H	H	H	H	H	CH_3	A1	[(4-etilfenoxi)carbonil]amino	H	H	H	Z	4,39[a]
479	H	H	H	H	H	CH_3	A1	[(pent-4-en-2-iloxi)carbonil]amino	H	H	H	Z	4,01[a]

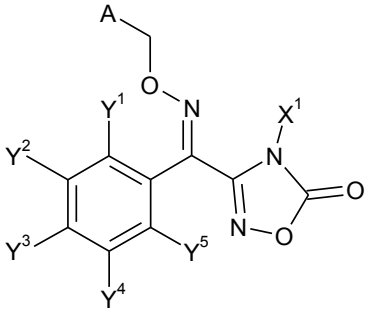
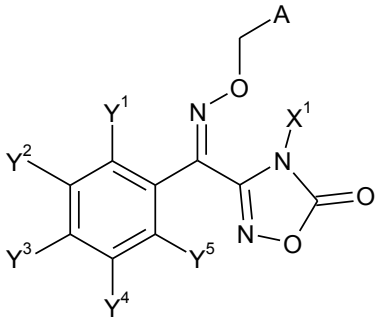
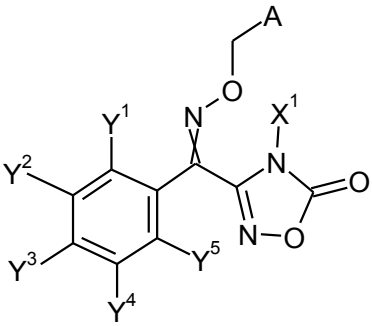
Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
480	fluoro	H	H	H	H	CH_3	A1	pentanoilamino	H	H	H	Z	3,44[a]
481	H	H	H	H	cloro	CH_3	A2	pentanoilamino	H			Z	3,53[a]
482	H	H	H	H	H	CH_3	A1	[(viniloxi)carbonil]amino	H	H	H	Z	3,33[a]
483	H	H	H	H	H	CH_3	A1	[(tetrahidrofuran-2-ilmetoxi)carbonil]amino	H	H	H	Z	3,11[a]
484	H	H	H	H	H	CH_3	A1	[(hex-5-in-1-iloxi)carbonil]amino	H	H	H	Z	3,78[a]
485	H	H	H	H	H	CH_3	A1	[(1-ciclohexiletoxi)carbonil]amino	H	H	H	Z	5,25[a]
486	H	H	H	H	H	CH_3	A1	{[(6-clorohexil)oxi]carbonil}amino	H	H	H	Z	4,49[a]
487	H	H	H	H	H	CH_3	A1	{[(2-metilbencil)oxi]carbonil}amino	H	H	H	Z	4,29[a]
488	H	H	H	H	H	CH_3	A1	{[(4*Z*)-hept-4-en-1-iloxi]carbonil}amino	H	H	H	Z	4,78[a]
489	H	H	H	H	H	CH_3	A1	[(3-metoxi-2,2-dimetil-3-oxopropoxi)carbonil]amino	H	H	H	Z	3,65[a]
490	H	H	H	H	H	CH_3	A1	{[2-(aliloxi)etoxi]carbonil}amino	H	H	H	Z	3,37[a]
491	H	H	H	H	H	CH_3	A1	[(3-metoxi-2-metil-3-oxopropoxi)carbonil]amino	H	H	H	Z	3,33[a]
492	H	H	H	H	H	CH_3	A1	[(4-isopropilfenoxi)carbonil]amino	H	H	H	Z	4,67[a]
493	H	H	H	H	cloro	CH_3	A2	(2-fenoxipropanoil)amino	H			Z	3,81[a]
494	H	H	H	H	H	CH_3	A1	[(2,6-dimetilfenoxi)carbonil]amino	H	H	H	Z	4,2[a]
495	H	H	H	H	H	CH_3	A1	{[(2-fluorobencil)oxi]carbonil}amino	H	H	H	Z	4,01[a]
496	H	H	H	H	H	CH_3	A1	{[2-(ciclohexiloxi)etoxi]carbonil}amino	H	H	H	Z	4,31[a]
497	H	H	H	H	H	CH_3	A1	{[3-(piridin-3-il)propoxi]carbonil}amino	H	H	H	Z	2,11[a]
498	H	H	H	H	H	CH_3	A1	{[(3,5-dimetilbencil)oxi]carbonil}amino	H	H	H	Z	4,68[a]
499	H	H	H	H	cloro	CH_3	A2	[(but-3-in-1-iloxi)carbonil]amino	H			Z	3,19[a]
500	H	H	H	H	H	CH_3	A1	[(2,2,2-trifluoroetoxi)carbonil]amino	H	H	H	Z	3,57[a]
501	H	H	H	H	H	CH_3	A1	{[(3-fluorobencil)oxi]carbonil}amino	H	H	H	Z	4,01[a]
502	H	H	H	H	H	CH_3	A1	[(1-ciclopentiletoxi)carbonil]amino	H	H	H	Z	4,82[a]
503	H	H	H	H	H	CH_3	A1	[(pent-2-in-1-iloxi)carbonil]amino	H	H	H	Z	3,78[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
504	H	H	H	H	H	CH_3	A1	{[(2-metilprop-2-en-1-il)oxi]carbonil}amino	H	H	H	Z	3,73[a]
505	H	H	H	H	H	CH_3	A1	{[(4Z)-hex-4-en-1-iloxi]carbonil}amino	H	H	H	Z	4,39[a]
506	H	H	H	H	H	CH_3	A1	{[(5-metilhexil)oxi]carbonil}amino	H	H	H	Z	5,17[a]
507	H	H	H	H	H	CH_3	A1	{[(2E)-hex-2-en-1-iloxi]carbonil}amino	H	H	H	Z	4,56[a]
508	fluoro	fluoro	H	H	H	CH_3	A1	amino	H	H	H	Z	1,34[a]
509	H	H	H	H	H	CH_3	A1	{[(4E)-hex-4-en-1-iloxi]carbonil}amino	H	H	H	Z	4,44[a]
510	fluoro	H	H	H	H	CH_3	A1	amino	H	H	H	Z	1,23[a]
511	H	H	H	H	H	CH_3	A1	[(hept-3-in-1-iloxi)carbonil]amino	H	H	H	Z	4,31[a]
512	H	H	H	H	H	CH_3	A2	[(butilsulfanil)carbotioil]amino	H			Z	4,81[a]
513	fluoro	H	H	H	H	CH_3	A1	hexanoilamino	H	H	H	Z	3,81[a]
514	H	H	H	H	H	CH_3	A1	[(4-acetoxibutoxi)carbonil]amino	H	H	H	Z	3,35[a]
515	H	H	H	H	H	CH_3	A1	{[2-(acriloiloxi)etoxi]carbonil}amino	H	H	H	Z	3,21[a]
516	H	H	H	H	H	CH_3	A1	{[3-(metilsulfanil)propoxi]carbonil}amino	H	H	H	Z	3,68[a]
517	H	H	H	H	H	CH_3	A1	l-4-[({[(1R,2S,5R)-2-isopropil-5-metilciclohexil]oxi}carbonil)amino]	H	H	H	Z	5,9[a]
518	H	H	H	H	H	CH_3	A1	[(2-cloroetoxi)carbonil]amino	H	H	H	Z	3,29[a]
519	H	H	H	H	cloro	CH_3	A2	(butoxicarbonil)amino	H			Z	3,85[a]
520	H	H	H	H	H	CH_3	A1	{[(3-etiloxetan-3-il)metoxi]carbonil}amino	H	H	H	Z	3,27[a]
521	H	H	H	H	H	CH_3	A1	[(2-metilfenoxi)carbonil]amino	H	H	H	Z	3,96[a]
522	H	H	H	H	H	CH_3	A1	{[(3E)-hex-3-en-1-iloxi]carbonil}amino	H	H	H	Z	4,46[a]
523	H	H	H	H	H	CH_3	A1	[(3-ciclohexilpropoxi)carbonil]amino	H	H	H	Z	5,71[a]
524	H	H	H	H	H	CH_3	A1	[(tetrahidrofuran-3-ilmetoxi)carbonil]amino	H	H	H	Z	2,98[a]
525	fluoro	H	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,21[a]
526	H	H	H	H	H	CH_3	A1	[(ciclohex-3-en-1-ilmetoxi)carbonil]amino	H	H	H	Z	4,51[a]
527	H	H	H	H	H	CH_3	A1	[(2-tienilmetoxi)carbonil]amino	H	H	H	Z	3,83[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
528	H	H	H	H	H	CH_3	A1	{[(4-fluorobencil)oxi]carbonil}amino	H	H	H	Z	3,99[a]
529	H	H	H	H	H	CH_3	A1	[(1,3-dioxolan-4-ilmetoxi)carbonil]amino	H	H	H	Z	2,73[a]
530	H	H	H	H	cloro	CH_3	A2	[(pentiloxi)carbonil]amino	H			Z	4,25[a]
531	H	H	H	H	H	CH_3	A1	[(2-propoxietoxi)carbonil]amino	H	H	H	Z	3,57[a]
532	H	H	H	H	H	CH_3	A1	[(4-metoxifenoxi)carbonil]amino	H	H	H	Z	3,69[a]
533	H	H	H	H	H	CH_3	A1	[(2-ciclopentiletoxi)carbonil]amino	H	H	H	Z	4,9[a]
534	fluoro	fluoro	H	H	H	CH_3	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,31[a]
535	H	H	H	H	H	CH_3	A1	{[(2Z)-hex-2-en-1-iloxi]carbonil}amino	H	H	H	Z	4,53[a]
536	H	H	H	H	H	CH_3	A1	[(2,2,2-tricloroetoxi)carbonil]amino	H	H	H	Z	4,15[a]
537	H	H	H	H	H	CH_3	A1	{[2-(tetrahidro-2H-piran-4-il)etoxi]carbonil}amino	H	H	H	Z	3,44[a]
538	H	H	H	H	cloro	CH_3	A2	hexanoilamino	H			Z	3,89[a]
539	H	H	H	H	H	CH_3	A2	[(terc-butilsulfanil)carbonil]amino	H			Z	4,04[a]
540	H	H	H	H	H	CH_3	A1	{[(3Z)-hex-3-en-1-iloxi]carbonil}amino	H	H	H	Z	4,44[a]
541	H	H	H	H	H	CH_3	A1	[(ciclohexilmetoxi)carbonil]amino	H	H	H	Z	4,88[a]
542	H	H	H	H	H	CH_3	A1	{[2-(trimetilsilil)etoxi]carbonil}amino	H	H	H	Z	4,88[a]
543	H	H	H	H	cloro	CH_3	A2	(fenilacetil)amino	H			Z	3,51[a]
544	H	H	H	H	H	CH_3	A1	[(3-cloropropoxi)carbonil]amino	H	H	H	Z	3,6[a]
545	H	H	H	H	H	CH_3	A1	[(2-isopropoxietoxi)carbonil]amino	H	H	H	Z	3,44[a]
546	H	H	H	H	H	CH_3	A1	{[(4-metilbencil)oxi]carbonil}amino	H	H	H	Z	4,31[a]
547	H	H	H	H	H	CH_3	A1	(metoxicarbonil)amino	H	H	H	Z	2,84[a]
548	H	H	H	H	H	CH_3	A1	[(pent-3-in-1-iloxi)carbonil]amino	H	H	H	Z	3,58[a]
549	H	H	H	H	H	CH_3	A1	[(3-ciclopropilpropoxi)carbonil]amino	H	H	H	Z	4,37[a]
550	H	H	H	H	H	CH_3	A1	[(4-clorobutoxi)carbonil]amino	H	H	H	Z	3,83[a]
551	H	H	H	H	H	CH_3	A1	[(2-fluoroetoxi)carbonil]amino	H	H	H	Z	2,96[a]

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
552	fluoro	H	H	H	H	CH_3	A1	(butoxicarbonil)amino	H	H	H	Z	3,92[a]
553	H	H	H	H	H	CH_3	A1	[(3-isopropilfenoxi)carbonil]amino	H	H	H	Z	4,64[a]
554	H	H	H	H	H	CH_3	A1	[(2-etoxi-2-oxoetoxi)carbonil]amino	H	H	H	Z	3,21[a]

Se describe la geometría del doble enlace de los ejemplos de la tabla 1 como se muestra aquí:

I (E)	I (Z)	I (U)
		

La medición de los valores logP se realizó de acuerdo con la directiva de la CEE 79/831 Anexo V.A8 por HPLC (Cromatografía Líquida de Alta Resolución) en columnas de fase inversa con los siguientes métodos:

[a] La medición de LC-MS se realizó a pH 2,7 con ácido fórmico al 0,1% en agua y con acetonitrilo (contiene 0,1% de ácido fórmico) como eluyente con un gradiente lineal desde 10% de acetonitrilo hasta 95% de acetonitrilo.

La calibración se hizo con alcan-2-onas no ramificadas (con 3 a 16 átomos de carbono) con valores de logP conocidos (medición de valores de logP usando tiempos de retención con interpolación lineal entre alcanonas sucesivas). Los valores máximos de lambda se determinaron usando espectros UV de 200 nm a 400 nm y los valores pico de las señales cromatográficas.

Listas de picos-RMN

Los datos de RMN de 1H de los ejemplos seleccionados se escriben en forma de listas de picos de RMN 1H. Para cada pico de señal, se listan el valor δ en ppm y la intensidad de la señal entre paréntesis. Entre los pares valor δ – intensidad de la señal hay semicolumnas como delimitadores.

La lista de picos de un ejemplo tiene por lo tanto la forma:

δ_1 (intensida$_{d1}$); δ_2 (intensidad$_2$);……..; δ_i (intensidad$_i$);……; δ_n (intensidad$_n$)

Lista de picos RMN Tabla 1

Ejemplo 1, Disolvente: DMSO, Espectrómetro: 499,93 MHz
7,7706 (0,59); 7,7438 (4,33); 7,7288 (4,77); 7,5449 (0,82); 7,5304 (2,27); 7,5160 (2,14); 7,4914 (3,65); 7,4760 (4,63); 7,4616 (1,97); 7,4219 (0,60); 7,4140 (1,79); 7,4072 (1,18); 7,3987 (2,87); 7,3831 (1,80); 6,5450 (2,86); 6,5306 (2,81); 6,4357 (2,85); 6,4192 (2,83); 6,0594 (6,23); 5,7816 (0,67); 5,2149 (9,25); 3,8061 (2,02); 3,4478 (3,34); 3,1218 (16,00); 2,5112 (0,36); 1,9897 (0,98); 1,1684 (0,52)
Ejemplo 2, Disolvente: DMSO, Espectrómetro: 499,93 MHz
10,1848 (2,68); 7,8340 (0,41); 7,8171 (2,04); 7,8092 (2,38); 7,8049 (4,86); 7,7925 (0,52); 7,7304 (2,61); 7,7200 (0,87); 7,7161 (3,25); 7,7132 (2,46); 7,5673 (0,55); 7,5649 (0,37); 7,5570 (0,44); 7,5526 (1,61); 7,5485 (0,57); 7,5404 (0,83); 7,5379 (1,32); 7,5354 (0,74); 7,5019 (2,27); 7,4992 (1,12); 7,4945 (0,53); 7,4890 (1,84); 7,4864 (3,15); 7,4752 (0,60); 7,4720 (1,29); 7,4701 (0,87); 7,1088 (1,26); 7,1041 (1,26); 7,0969 (1,13); 7,0922 (1,23); 5,3400 (6,66); 4,1044 (2,03); 4,0909 (4,22); 4,0775 (2,01); 3,9490 (1,03); 3,3400 (81,74); 3,3162 (1,90); 3,0753 (16,00); 2,5194 (2,79); 2,5159 (5,86); 2,5123 (8,04); 2,5086 (5,91); 2,5051 (2,84); 1,6318 (0,90); 1,6267 (0,73); 1,6181 (1,44); 1,6095 (0,75); 1,6044 (1,04); 1,5907 (0,33); 1,3485 (1,15); 1,3403 (1,83); 1,3343 (3,86); 1,3274 (2,69); 1,3199 (2,61); 1,3080 (0,47); 0,9041 (1,80); 0,8992 (1,09); 0,8901 (4,83); 0,8758 (1,55); 0,7455 (0,48); 0,7313 (0,97); 0,7167 (0,46)

Ejemplo 3, Disolvente: DMSO, Espectrómetro: 499,93 MHz
10,3221 (2,70); 7,8439 (0,69); 7,8271 (1,82); 7,8132 (2,25); 7,8065 (2,30); 7,8042 (2,59); 7,7899 (0,89); 7,7876 (0,69); 7,7313 (2,88); 7,7206 (0,96); 7,7168 (3,44); 7,7140 (2,62); 7,5687 (0,36); 7,5666 (0,59); 7,5643 (0,41); 7,5562 (0,49); 7,5518 (1,75); 7,5479 (0,61); 7,5395 (0,86); 7,5371 (1,36); 7,5348 (0,79); 7,5014 (2,47); 7,4859 (3,37); 7,4746 (0,61); 7,4715 (1,36); 7,1244 (1,53); 7,1222 (1,55); 7,1106 (1,49); 7,1084 (1,47); 5,3445 (6,98); 4,1960 (2,15); 4,1827 (4,65); 4,1693 (2,20); 4,0453 (0,95); 4,0310 (0,96); 4,0168 (0,33); 3,3394 (10,40); 3,3158 (0,46); 3,0794 (16,00); 2,9191 (1,40); 2,9138 (2,99); 2,9086 (1,44); 2,5789 (1,32); 2,5736 (1,41); 2,5656 (2,78); 2,5603 (2,73); 2,5522 (1,41); 2,5470 (1,27); 2,5192 (1,44); 2,5157 (2,92); 2,5122 (3,96); 2,5086 (2,93); 2,5052 (1,43); 1,9989 (4,08); 1,2525 (0,88); 1,2416 (0,43); 1,1980 (1,09); 1,1838 (2,15); 1,1695 (1,06); 0,8802 (0,51); 0,8666 (1,42); 0,8523 (0,63)
Ejemplo 4, Disolvente: DMSO, Espectrómetro: 499,93 MHz
7,7446 (3,01); 7,7343 (1,08); 7,7303 (3,49); 7,7274 (2,72); 7,5671 (0,40); 7,5648 (0,64); 7,5624 (0,51); 7,5550 (0,54); 7,5500 (1,77); 7,5458 (0,74); 7,5380 (1,00); 7,5355 (1,54); 7,5330 (0,99); 7,5076 (2,63); 7,4950 (1,98); 7,4922 (3,49); 7,4813 (0,74); 7,4781 (1,41); 7,4759 (0,98); 7,4708 (0,32); 7,0072 (3,79); 6,6393 (3,47); 5,1287 (6,93); 3,3423 (7,56); 3,0610 (16,00); 2,5195 (0,60); 2,5160 (1,19); 2,5124 (1,61); 2,5088 (1,24); 2,5055 (0,65); 1,9990 (1,19); 1,1984 (0,33); 1,1841 (0,64)
Ejemplo 5, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1669 (3,24); 7,8318 (0,50); 7,8107 (2,28); 7,8007 (2,67); 7,7955 (5,24); 7,7800 (0,66); 7,7267 (2,91); 7,7088 (3,58); 7,7051 (2,67); 7,5666 (0,54); 7,5548 (0,45); 7,5483 (1,75); 7,5428 (0,62); 7,5301 (1,52); 7,4995 (2,65); 7,4803 (3,35); 7,4627 (1,30); 7,1047 (1,40); 7,0989 (1,39); 7,0899 (1,27); 7,0841 (1,35); 5,3335 (7,04); 4,1468 (1,93); 4,1298 (4,09); 4,1128 (2,01); 3,3279 (116,65); 3,0694 (16,00); 2,5155 (20,77); 2,5113 (40,74); 2,5069 (54,41); 2,5025 (40,18); 2,3339 (0,36); 1,7244 (1,24); 1,6879 (2,13); 1,6484 (1,50); 1,6310 (0,97); 1,6032 (0,68); 1,5377 (0,90); 1,5207 (2,62); 1,5036 (2,95); 1,4868 (1,20); 1,4125 (0,38); 1,4042 (0,46); 1,3960 (0,53); 1,3861 (0,55); 1,3781 (0,51); 1,3695 (0,50); 1,3613 (0,41); 1,2526 (0,44); 1,2221 (0,95); 1,1924 (1,39); 1,1656 (1,61); 1,1514 (0,63); 1,1439 (0,80); 1,1140 (0,48); 0,9629 (0,59); 0,9341 (1,29); 0,9043 (1,16); 0,8809 (0,48)
Ejemplo 6, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1987 (3,02); 7,8363 (0,49); 7,8152 (2,33); 7,8063 (2,70); 7,8005 (5,45); 7,7855 (0,64); 7,7274 (2,92); 7,7095 (3,63); 7,7058 (2,67); 7,5662 (0,57); 7,5631 (0,41); 7,5543 (0,50); 7,5479 (1,77); 7,5423 (0,64); 7,5329 (1,08); 7,5297 (1,56); 7,5265 (0,90); 7,4995 (2,64); 7,4838 (1,99); 7,4803 (3,33); 7,4666 (0,69); 7,4627 (1,34); 7,4596 (0,86); 7,1087 (1,39); 7,1025 (1,38); 7,0941 (1,24); 7,0880 (1,33); 5,8795 (0,66); 5,8705 (0,38); 5,8631 (0,38); 5,8538 (0,97); 5,8369 (1,00); 5,8276 (0,43); 5,8202 (0,42); 5,8111 (0,78); 5,7947 (0,39); 5,7612 (1,46); 5,3376 (7,02); 5,0854 (0,55); 5,0814 (1,22); 5,0766 (1,29); 5,0726 (0,61); 5,0424 (0,53); 5,0385 (1,13); 5,0337 (1,18); 5,0297 (0,58); 5,0055 (1,28); 5,0031 (1,17); 5,0006 (1,14); 4,9801 (1,20); 4,9775 (1,09); 4,9751 (1,07); 4,1127 (2,11); 4,0961 (4,43); 4,0796 (2,18); 3,3305 (40,52); 3,0706 (16,00); 2,5155 (7,99); 2,5112 (15,37); 2,5068 (20,26); 2,5024 (14,84); 2,1528 (0,71); 2,1352 (1,78); 2,1182 (1,83); 2,1159 (1,84); 2,0991 (0,87); 1,7438 (0,62); 1,7270 (1,73); 1,7079 (2,23); 1,6904 (1,66); 1,6733 (0,57)
Ejemplo 7, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2520 (3,20); 7,8262 (0,66); 7,8052 (2,02); 7,7880 (3,89); 7,7829 (2,83); 7,7658 (0,83); 7,7279 (3,00); 7,7100 (3,67); 7,7063 (2,76); 7,5667 (0,56); 7,5636 (0,41); 7,5547 (0,48); 7,5483 (1,79); 7,5428 (0,66); 7,5332 (1,07); 7,5302 (1,56); 7,4998 (2,71); 7,4806 (3,42); 7,4669 (0,71); 7,4629 (1,37); 7,4599 (0,90); 7,3152 (9,49); 7,3043 (10,60); 7,2859 (0,54); 7,2827 (0,54); 7,2547 (0,43); 7,2454 (0,89); 7,2350 (1,32); 7,2241 (1,45); 7,2137 (0,79); 7,2021 (0,42); 7,1087 (1,55); 7,1049 (1,57); 7,0921 (1,47); 7,0883 (1,49); 5,7617 (5,40); 5,3363 (6,96); 4,3097 (1,95); 4,2925 (4,25); 4,2752 (2,06); 3,3342 (34,82); 3,0676 (16,00); 2,9561 (1,94); 2,9389 (3,94); 2,9217 (1,88); 2,5113 (12,99); 2,5069 (17,15); 2,5025 (12,65); 1,9933 (0,37)
Ejemplo 8, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5083 (2,38); 8,0760 (1,44); 8,0553 (1,72); 7,8355 (1,33); 7,8161 (1,97); 7,7959 (1,24); 7,7279 (2,88); 7,7100 (3,57); 7,7063 (2,65); 7,5683 (0,55); 7,5651 (0,40); 7,5564 (0,47); 7,5500 (1,75); 7,5444 (0,63); 7,5349 (1,04); 7,5317 (1,52); 7,5007 (2,62); 7,4815 (3,32); 7,4677 (0,67); 7,4638 (1,32); 7,1445 (1,98); 7,1261 (1,92); 5,7617 (1,80); 5,3578 (6,81); 3,3305 (52,69); 3,0573 (16,00); 2,5155 (10,46); 2,5113 (20,34); 2,5069 (27,02); 2,5025 (19,91); 2,3963 (1,83); 2,3779 (3,38); 2,3594 (2,01); 1,5833 (0,93); 1,5670 (1,45); 1,5494 (1,15); 1,5310 (0,46); 1,2683 (6,34); 1,2651 (6,26); 0,8766 (1,79); 0,8598 (5,70); 0,8425 (2,16)
Ejemplo 9, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1173 (2,55); 7,7390 (2,96); 7,7213 (3,56); 7,7176 (2,64); 7,5667 (0,50); 7,5636 (0,37); 7,5552 (0,41); 7,5483 (1,74); 7,5427 (0,60); 7,5335 (1,03); 7,5303 (1,57); 7,5051 (2,73); 7,4859 (3,34); 7,4724 (0,59); 7,4684 (1,25); 7,4650 (0,82); 7,2615 (4,30); 5,7612 (3,17); 5,3238 (6,70); 3,3346 (29,08); 3,0167 (16,00); 2,5111 (11,26); 2,5067 (14,95); 2,5024 (10,94); 2,4226 (1,84); 2,4042 (3,55); 2,3856 (2,02); 1,9928 (0,56); 1,5958 (0,97); 1,5790 (1,49); 1,5613 (1,14); 1,5430 (0,39); 1,2590 (6,75); 1,1781 (0,36); 0,8689 (1,89); 0,8599 (2,02); 0,8524 (5,93); 0,8351 (2,14)
Ejemplo 10, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5590 (1,60); 7,7403 (2,99); 7,7225 (3,67); 7,7188 (2,71); 7,5698 (0,58); 7,5667 (0,43); 7,5582 (0,50); 7,5515 (1,82); 7,5457 (0,69); 7,5366 (1,17); 7,5334 (1,66); 7,5074 (2,81); 7,4883 (3,46); 7,4747 (0,77); 7,4707 (1,40); 7,4674 (0,92); 7,3697 (4,69); 7,0148 (1,41); 6,9960 (1,86); 6,9939 (1,79); 6,9214 (0,33); 6,9149 (0,79); 6,9073 (0,97); 6,9001 (1,09); 6,8926 (1,62); 6,8884 (0,78); 6,8804 (0,96); 6,8733 (2,00); 6,8624 (5,17); 6,8583 (3,48); 6,8473 (1,45); 6,8435 (1,38); 6,8320 (0,37); 6,8274 (0,40); 6,8236 (0,37); 5,7612 (5,24); 5,3492 (6,42); 5,1539 (1,22); 5,1452 (2,37); 5,1356 (1,29); 4,4359 (2,83); 4,4333 (2,89); 4,4258 (3,48); 4,4034 (0,38); 4,0429 (0,50); 4,0252 (0,50); 3,3306 (35,81); 3,2961 (0,61); 3,0174 (16,00); 2,5153 (10,91); 2,5112 (20,83); 2,5068 (27,33); 2,5024 (19,99); 1,9938 (2,16); 1,2405 (0,35); 1,1972 (0,60); 1,1794 (1,16); 1,1616 (0,60)
Ejemplo 11, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,3858 (1,35); 7,7445 (2,97); 7,7267 (3,64); 7,7230 (2,75); 7,5705 (0,54); 7,5676 (0,41); 7,5591 (0,46); 7,5522 (1,78); 7,5465 (0,67); 7,5374

(1,11); 7,5342 (1,65); 7,5089 (2,78); 7,4935 (1,99); 7,4898 (3,45); 7,4765 (0,75); 7,4723 (1,39); 7,4688 (0,97); 7,3613 (4,75); 7,1264 (0,72); 7,1081 (1,50); 7,0873 (1,38); 7,0804 (2,10); 7,0602 (2,42); 7,0391 (0,87); 6,8995 (2,03); 6,8791 (1,79); 6,8735 (1,39); 6,8549 (1,91); 6,8437 (0,76); 6,8409 (0,85); 6,8366 (1,03); 6,8339 (0,95); 6,8252 (0,93); 6,8226 (1,05); 6,8070 (1,35); 6,7868 (0,85); 5,3532 (6,46); 4,9141 (1,07); 4,9057 (1,24); 4,8938 (1,34); 4,8854 (1,16); 4,7823 (0,51); 4,7725 (0,59); 4,7660 (0,63); 4,7562 (0,53); 3,3355 (12,66); 3,3037 (0,88); 3,0259 (16,00); 2,8393 (0,37); 2,8332 (0,36); 2,8122 (0,70); 2,7920 (0,85); 2,7780 (0,65); 2,7664 (0,56); 2,7506 (0,33); 2,7264 (0,51); 2,7127 (1,04); 2,6981 (0,63); 2,6851 (0,42); 2,6713 (0,89); 2,6570 (0,64); 2,6377 (0,35); 2,5154 (9,57); 2,5113 (18,71); 2,5069 (24,93); 2,5025 (18,54); 2,2459 (0,49); 2,2373 (0,50); 2,2257 (0,53); 2,2173 (0,54); 2,2115 (0,77); 2,2029 (0,73); 2,1881 (0,42); 2,1535 (0,37); 2,1434 (0,39); 2,1393 (0,34); 2,1335 (0,37); 2,1294 (0,35); 2,1190 (0,51); 2,1045 (0,51); 2,0964 (0,73); 2,0828 (1,00); 2,0629 (1,15); 2,0478 (0,70); 2,0290 (0,42); 1,9938 (1,29); 1,1969 (0,35); 1,1791 (0,66); 1,1614 (0,34)

Ejemplo 12, Disolvente: DMSO, Espectrómetro: 400,13 MHz

11,7576 (2,06); 7,7345 (3,08); 7,7167 (3,65); 7,7130 (2,74); 7,5665 (0,55); 7,5633 (0,42); 7,5548 (0,49); 7,5481 (1,79); 7,5426 (0,64); 7,5301 (1,62); 7,5040 (2,81); 7,4849 (3,46); 7,4674 (1,30); 7,4639 (0,97); 7,2555 (4,46); 5,7625 (2,56); 5,2861 (6,90); 4,1729 (0,33); 4,1617 (2,16); 4,1450 (4,50); 4,1283 (2,17); 3,3325 (76,53); 3,3085 (0,60); 3,0339 (16,00); 2,9930 (0,62); 2,5110 (32,54); 2,5067 (42,65); 2,5023 (31,20); 1,9936 (0,64); 1,6427 (1,23); 1,6256 (1,91); 1,6083 (1,33); 1,5910 (0,43); 1,3398 (1,29); 1,3306 (2,58); 1,3223 (4,17); 1,3130 (4,16); 1,3044 (2,61); 1,2388 (0,33); 1,1791 (0,38); 0,8967 (2,30); 0,8793 (6,15); 0,8616 (2,11)

Ejemplo 13, Disolvente: DMSO, Espectrómetro: 400,13 MHz

12,1083 (2,32); 7,7383 (2,90); 7,7255 (1,04); 7,7205 (3,51); 7,7167 (2,62); 7,5682 (0,54); 7,5567 (0,47); 7,5497 (1,76); 7,5441 (0,65); 7,5349 (1,06); 7,5318 (1,60); 7,5068 (2,76); 7,4914 (1,91); 7,4876 (3,36); 7,4742 (0,69); 7,4701 (1,31); 7,4667 (0,87); 7,2592 (4,09); 5,7579 (2,07); 5,3244 (6,84); 3,3214 (68,27); 3,3016 (1,27); 3,0191 (16,00); 2,5157 (9,34); 2,5115 (18,35); 2,5070 (24,67); 2,5026 (18,27); 2,4986 (9,55); 2,4320 (2,28); 2,4136 (3,88); 2,3949 (2,39); 1,9935 (0,74); 1,6087 (0,56); 1,5905 (1,62); 1,5717 (2,29); 1,5532 (1,76); 1,5342 (0,75); 1,3431 (0,37); 1,3244 (1,27); 1,3055 (2,11); 1,2868 (2,15); 1,2686 (1,36); 1,2505 (0,58); 1,2402 (0,40); 1,1802 (0,44); 0,8973 (4,48); 0,8790 (8,83); 0,8606 (3,98)

Ejemplo 14, Disolvente: DMSO, Espectrómetro: 400,13 MHz

11,7455 (1,91); 7,7336 (2,82); 7,7210 (1,05); 7,7159 (3,56); 7,7121 (2,61); 7,5665 (0,53); 7,5634 (0,40); 7,5550 (0,47); 7,5481 (1,75); 7,5424 (0,64); 7,5334 (1,07); 7,5301 (1,60); 7,5268 (0,91); 7,5045 (2,69); 7,4893 (1,90); 7,4854 (3,33); 7,4720 (0,69); 7,4679 (1,36); 7,4644 (1,02); 7,2529 (4,15); 5,7580 (2,45); 5,2874 (6,51); 4,1724 (2,20); 4,1558 (4,59); 4,1392 (2,30); 3,3209 (73,16); 3,0349 (16,00); 2,9949 (0,50); 2,5158 (9,29); 2,5114 (18,55); 2,5070 (25,08); 2,5025 (18,39); 2,4982 (9,44); 1,9936 (0,44); 1,6453 (0,50); 1,6283 (1,56); 1,6222 (0,70); 1,6108 (2,00); 1,5912 (1,74); 1,5746 (0,75); 1,4103 (0,35); 1,3917 (1,20); 1,3726 (1,96); 1,3538 (2,02); 1,3356 (1,25); 1,3173 (0,42); 0,9266 (4,37); 0,9082 (8,84); 0,8897 (3,94); 0,8633 (0,32)

Ejemplo 15, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,4985 (2,11); 8,0751 (1,44); 8,0545 (1,70); 7,8356 (1,29); 7,8161 (1,88); 7,7961 (1,20); 7,7272 (2,76); 7,7144 (0,97); 7,7094 (3,46); 7,7057 (2,61); 7,5692 (0,51); 7,5661 (0,38); 7,5572 (0,42); 7,5508 (1,67); 7,5453 (0,61); 7,5359 (0,96); 7,5327 (1,48); 7,5294 (0,88); 7,5021 (2,54); 7,4866 (1,78); 7,4829 (3,20); 7,4693 (0,63); 7,4653 (1,27); 7,4622 (0,83); 7,1441 (1,91); 7,1258 (1,81); 5,7585 (0,87); 5,3585 (6,77); 3,3210 (97,01); 3,0587 (16,00); 2,5160 (11,84); 2,5117 (24,12); 2,5072 (33,05); 2,5027 (24,80); 2,4984 (13,08); 2,4063 (2,03); 2,3880 (3,54); 2,3693 (2,20); 1,5971 (0,49); 1,5789 (1,43); 1,5601 (2,05); 1,5416 (1,57); 1,5228 (0,68); 1,3517 (0,34); 1,3331 (1,17); 1,3142 (1,91); 1,2955 (1,96); 1,2774 (1,24); 1,2593 (0,44); 0,9054 (4,07); 0,8872 (8,23); 0,8687 (3,69)

Ejemplo 16, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,1548 (2,83); 7,8327 (0,59); 7,8116 (2,03); 7,7959 (4,35); 7,7924 (3,17); 7,7759 (0,74); 7,7267 (2,82); 7,7138 (1,00); 7,7089 (3,49); 7,7052 (2,59); 7,5671 (0,53); 7,5641 (0,40); 7,5553 (0,44); 7,5487 (1,69); 7,5432 (0,60); 7,5338 (0,97); 7,5306 (1,49); 7,5273 (0,87); 7,5004 (2,57); 7,4849 (1,81); 7,4813 (3,23); 7,4677 (0,62); 7,4637 (1,29); 7,4606 (0,83); 7,1056 (1,39); 7,1010 (1,44); 7,0896 (1,30); 7,0850 (1,35); 5,7586 (1,43); 5,3364 (6,81); 3,9986 (4,32); 3,9809 (4,44); 3,3202 (133,08); 3,2974 (1,78); 3,2478 (0,43); 3,0711 (16,00); 2,5159 (16,66); 2,5115 (33,31); 2,5070 (45,25); 2,5026 (33,44); 2,4983 (17,30); 2,3338 (0,33); 2,2373 (0,37); 2,2185 (0,83); 2,2000 (1,13); 2,1813 (0,89); 2,1629 (0,42); 1,9939 (0,36); 1,7481 (0,34); 1,7322 (0,71); 1,7197 (0,96); 1,7006 (1,16); 1,6878 (0,84); 1,6717 (0,54); 1,6171 (0,72); 1,5969 (1,19); 1,5804 (1,17); 1,5547 (0,92); 1,5425 (0,64); 1,5349 (1,18); 1,5262 (1,00); 1,5159 (1,25); 1,4967 (0,78); 1,4864 (0,48); 1,3142 (0,44); 1,2981 (0,96); 1,2815 (1,16); 1,2673 (1,08); 1,2500 (1,00)

Ejemplo 17, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,9907 (2,47); 8,1662 (1,80); 8,1457 (2,17); 7,9407 (1,37); 7,9212 (2,03); 7,9011 (1,38); 7,8921 (1,50); 7,8726 (1,77); 7,8651 (1,14); 7,8590 (1,18); 7,8401 (0,94); 7,8343 (1,10); 7,8302 (0,84); 7,7407 (2,86); 7,7228 (3,51); 7,7191 (2,65); 7,5985 (0,63); 7,5838 (0,80); 7,5781 (1,34); 7,5725 (0,86); 7,5693 (0,72); 7,5635 (1,45); 7,5587 (1,32); 7,5541 (2,01); 7,5484 (0,85); 7,5439 (1,09); 7,5391 (1,19); 7,5359 (1,67); 7,5063 (2,71); 7,4871 (3,43); 7,4792 (1,15); 7,4771 (1,12); 7,4697 (1,87); 7,4564 (1,22); 7,4505 (1,11); 7,4345 (0,58); 7,4298 (0,53); 7,2525 (1,99); 7,2341 (1,92); 5,7583 (2,56); 5,4273 (6,85); 4,0440 (0,46); 4,0262 (0,48); 3,3216 (62,10); 3,2635 (0,45); 3,0866 (16,00); 2,5157 (11,88); 2,5115 (23,07); 2,5070 (30,83); 2,5026 (22,71); 2,4984 (11,72); 1,9935 (2,00); 1,1980 (0,55); 1,1802 (1,07); 1,1624 (0,54)

Ejemplo 18, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,1574 (2,74); 7,8335 (0,45); 7,8125 (2,33); 7,8044 (2,57); 7,7981 (5,52); 7,7835 (0,57); 7,7261 (2,75); 7,7133 (1,00); 7,7083 (3,46); 7,7046 (2,53); 7,5668 (0,53); 7,5551 (0,45); 7,5486 (1,70); 7,5430 (0,59); 7,5337 (0,99); 7,5304 (1,47); 7,5271 (0,83); 7,5002 (2,53); 7,4848 (1,79); 7,4811 (3,16); 7,4675 (0,61); 7,4635 (1,26); 7,4603 (0,77); 7,1058 (1,33); 7,0993 (1,33); 7,0916 (1,17); 7,0851 (1,27); 5,7586 (0,81); 5,3352 (6,89); 4,1135 (2,18); 4,0969 (4,56); 4,0803 (2,26); 3,3199 (123,98); 3,2974 (1,65); 3,2466 (0,43); 3,0700 (16,00); 2,5159 (16,11); 2,5115 (31,93); 2,5070 (43,10); 2,5025 (31,56); 2,4981 (16,17); 1,6332 (0,49); 1,6161 (1,46); 1,6098 (0,63); 1,5988 (1,89); 1,5793 (1,62); 1,5626 (0,70); 1,4204 (0,35); 1,4017 (1,17); 1,3826 (1,84); 1,3638 (1,87); 1,3457 (1,15); 1,3275 (0,38); 0,9319 (4,19); 0,9135 (8,44); 0,8951 (3,70)

Ejemplo 19, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5294 (1,59); 7,7395 (2,96); 7,7217 (3,52); 7,7180 (2,62); 7,5699 (0,52); 7,5585 (0,41); 7,5515 (1,73); 7,5460 (0,60); 7,5336 (1,56); 7,5075 (2,73); 7,4884 (3,34); 7,4749 (0,59); 7,4709 (1,23); 7,4677 (0,83); 7,3325 (4,63); 7,3036 (1,94); 7,2821 (3,54); 7,2636 (2,48); 6,9614 (1,16); 6,9430 (2,09); 6,9213 (3,45); 6,9193 (3,62); 6,8995 (3,04); 6,8745 (0,67); 6,8547 (0,61); 5,7576 (7,18); 5,3414 (6,67); 5,0710 (0,48); 5,0546 (1,66); 5,0380 (1,67); 5,0215 (0,47); 4,8193 (0,35); 4,8023 (0,36); 4,0438 (0,43); 4,0260 (0,43); 3,3243 (31,22); 3,2976 (0,51); 3,0193 (16,00); 2,5112 (16,98); 2,5068 (22,43); 2,5025 (16,19); 1,9934 (1,84); 1,5537 (6,33); 1,5372 (6,27); 1,5084 (1,60); 1,4914 (1,55); 1,1977 (0,50); 1,1799 (0,97); 1,1621 (0,48)
Ejemplo 20, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,8184 (0,79); 7,9522 (1,39); 7,9328 (1,87); 7,9302 (2,03); 7,9232 (1,21); 7,9043 (0,92); 7,8986 (1,06); 7,8944 (0,81); 7,7505 (2,86); 7,7328 (3,50); 7,7291 (2,65); 7,6359 (0,58); 7,6213 (0,71); 7,6156 (1,16); 7,6010 (1,22); 7,5963 (0,95); 7,5813 (0,86); 7,5730 (0,69); 7,5698 (0,55); 7,5615 (0,51); 7,5545 (1,81); 7,5486 (0,75); 7,5399 (1,10); 7,5365 (1,69); 7,5332 (1,10); 7,5236 (0,96); 7,5124 (2,95); 7,4972 (2,81); 7,4935 (3,80); 7,4804 (1,23); 7,4759 (1,84); 7,4033 (4,13); 5,7585 (2,30); 5,3933 (6,38); 3,3207 (94,77); 3,0251 (16,00); 2,5159 (15,95); 2,5115 (31,24); 2,5070 (42,01); 2,5026 (31,01); 2,4983 (16,05); 1,9937 (1,08); 1,1804 (0,60); 1,1626 (0,32)
Ejemplo 21, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8506 (1,17); 7,7812 (0,84); 7,7650 (1,91); 7,7608 (1,24); 7,7441 (0,38); 7,7251 (1,21); 7,7072 (1,45); 7,7036 (1,09); 7,5480 (0,72); 7,5297 (0,63); 7,4996 (1,08); 7,4804 (1,33); 7,4627 (0,54); 7,0797 (0,62); 7,0756 (0,64); 7,0635 (0,56); 7,0592 (0,56); 5,3201 (2,79); 3,3634 (296,68); 3,3409 (5,56); 3,0665 (6,33); 2,5114 (20,72); 2,5070 (27,49); 2,5027 (20,59); 1,9926 (0,59); 1,4657 (16,00); 1,3519 (0,95); 1,3258 (0,32); 1,3018 (0,57); 1,2479 (1,59); 1,1776 (0,35); 0,8776 (0,50); 0,8610 (1,44); 0,8434 (0,62)
Ejemplo 22, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2809 (0,68); 7,9559 (2,45); 7,8012 (0,44); 7,7827 (0,45); 7,7542 (0,59); 7,5933 (0,62); 7,5763 (0,76); 7,5723 (0,62); 7,4749 (0,36); 7,4574 (0,44); 7,4426 (0,79); 7,4239 (0,71); 7,1464 (0,42); 7,1282 (0,38); 5,2591 (1,46); 4,1891 (0,53); 4,1724 (1,13); 4,1557 (0,53); 3,3545 (11,64); 2,9169 (0,49); 2,9104 (0,92); 2,9037 (0,73); 2,8939 (16,00); 2,7343 (13,95); 2,5721 (0,33); 2,5656 (0,35); 2,5554 (0,71); 2,5488 (0,69); 2,5386 (0,50); 2,5289 (0,66); 2,5107 (16,80); 2,5064 (22,26); 2,5022 (16,29)
Ejemplo 23, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,9573 (0,37); 7,8215 (0,44); 7,8010 (0,38); 7,7687 (0,36); 7,7571 (0,37); 7,7329 (0,39); 7,6427 (6,99); 7,6251 (8,28); 7,6214 (5,86); 7,5318 (1,42); 7,5134 (4,14); 7,5075 (1,62); 7,4956 (4,03); 7,4750 (6,92); 7,4628 (5,13); 7,4600 (5,35); 7,4559 (7,63); 7,4433 (5,44); 7,4389 (3,11); 7,4245 (2,90); 6,5712 (4,72); 6,5530 (4,29); 6,4382 (4,75); 6,4174 (4,44); 6,2342 (1,45); 5,3354 (0,74); 5,2840 (0,39); 5,2036 (16,00); 2,8945 (1,61); 2,7352 (1,36); 2,6755 (0,58); 2,5106 (89,93); 2,5064 (117,56); 2,5022 (87,81); 2,3332 (0,77); 2,0801 (0,45); 1,4661 (0,44); 1,3663 (0,51)
Ejemplo 25, Disolvente: DMSO, Espectrómetro: 499,93 MHz
7,6204 (1,43); 7,6161 (1,82); 7,6090 (2,12); 7,6011 (1,97); 7,5108 (4,24); 7,5065 (3,96); 7,4998 (2,44); 7,4899 (0,61); 7,3940 (1,02); 7,3787 (1,60); 7,3630 (1,08); 6,4882 (1,74); 6,4738 (1,68); 6,3819 (1,77); 6,3654 (1,72); 5,9978 (2,42); 5,9845 (0,70); 5,1329 (6,30); 3,3423 (16,00); 3,3187 (1,72); 3,2748 (12,78); 2,5150 (6,35); 2,5118 (8,32); 2,5085 (6,37); 1,9993 (0,40)
Ejemplo 26, Disolvente: DMSO, Espectrómetro: 499,93 MHz
10,1670 (6,78); 7,8170 (0,80); 7,8000 (5,62); 7,7954 (6,11); 7,7896 (11,23); 7,7790 (1,06); 7,6251 (3,99); 7,6211 (5,06); 7,6141 (5,59); 7,6060 (5,42); 7,5141 (11,08); 7,5103 (10,73); 7,5035 (6,79); 7,5009 (5,93); 7,4926 (1,69); 7,4851 (0,50); 7,0871 (0,47); 7,0764 (2,89); 7,0703 (3,01); 7,0660 (2,72); 7,0600 (2,76); 7,0495 (0,35); 5,2849 (16,00); 4,1004 (4,60); 4,0870 (9,35); 4,0736 (4,60); 3,9135 (0,57); 3,4056 (0,54); 3,4000 (0,48); 3,3947 (0,60); 3,3823 (0,34); 3,3455 (28,74); 3,3219 (1,33); 3,2412 (32,31); 2,5150 (6,09); 2,5118 (7,70); 2,5086 (5,87); 1,6258 (2,65); 1,6122 (4,01); 1,5986 (2,87); 1,5854 (0,93); 1,3570 (0,76); 1,3299 (9,83); 1,3229 (7,95); 1,3156 (6,59); 1,2430 (0,60); 0,9010 (4,82); 0,8873 (11,07); 0,8734 (4,09); 0,8477 (0,32)
Ejemplo 27, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,6614 (1,15); 7,7421 (2,97); 7,7381 (1,73); 7,7337 (1,65); 7,7297 (2,20); 7,7245 (3,73); 7,7208 (2,69); 7,7115 (0,81); 7,6590 (0,35); 7,6545 (0,35); 7,6457 (0,43); 7,6407 (0,79); 7,6381 (0,67); 7,6362 (0,65); 7,6339 (0,56); 7,6271 (0,63); 7,6227 (0,74); 7,6199 (0,81); 7,6151 (0,48); 7,6062 (0,45); 7,6018 (0,40); 7,5662 (0,49); 7,5630 (0,34); 7,5548 (0,38); 7,5479 (1,67); 7,5420 (0,55); 7,5332 (1,02); 7,5298 (1,56); 7,5263 (0,85); 7,5048 (2,60); 7,4896 (1,77); 7,4859 (3,17); 7,4725 (0,57); 7,4684 (1,28); 7,4649 (0,78); 7,3945 (5,01); 7,3703 (1,05); 7,3648 (1,42); 7,3624 (1,65); 7,3437 (2,87); 7,3248 (0,97); 7,3224 (0,86); 5,3703 (6,26); 3,3387 (88,38); 3,0367 (16,00); 2,8907 (2,15); 2,7323 (1,76); 2,7311 (1,75); 2,5253 (0,70); 2,5119 (12,90); 2,5076 (24,75); 2,5031 (32,03); 2,4985 (23,64); 2,4941 (11,72); -0,0002 (2,90)
Ejemplo 28, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4655 (1,14); 7,9527 (0,99); 7,7392 (2,77); 7,7267 (0,81); 7,7216 (3,44); 7,7179 (2,52); 7,5665 (0,48); 7,5633 (0,32); 7,5551 (0,34); 7,5481 (1,66); 7,5423 (0,52); 7,5334 (0,94); 7,5301 (1,53); 7,5266 (0,81); 7,5045 (2,56); 7,4893 (1,64); 7,4855 (3,14); 7,4721 (0,49); 7,4680 (1,21); 7,4645 (0,73); 7,3366 (4,68); 7,2656 (0,68); 7,2628 (0,73); 7,2439 (0,97); 7,2364 (0,75); 7,2327 (0,77); 7,2161 (0,80); 7,2127 (0,84); 7,1310 (0,32); 7,1101 (1,28); 7,1067 (1,34); 7,1005 (1,10); 7,0930 (2,68); 7,0805 (1,09); 7,0759 (1,12); 7,0601 (0,40); 6,9975 (0,48); 6,9899 (0,48); 6,9859 (0,60); 6,9816 (0,71); 6,9773 (0,56); 6,9751 (0,51); 6,9682 (0,78); 6,9657 (0,70); 6,9632 (0,87); 6,9547 (0,32); 6,9481 (0,34); 5,3405 (6,14); 4,9435 (7,87); 3,3318 (62,16); 3,0274 (16,00); 2,8903 (7,39); 2,7317 (6,11); 2,7307 (5,95); 2,5248 (0,67); 2,5114 (13,19); 2,5070 (26,28); 2,5024 (34,60); 2,4978 (25,54); 2,4934 (12,50); -0,0002 (3,67)
Ejemplo 29, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8476 (1,94); 8,0189 (0,92); 7,9981 (1,14); 7,9532 (1,08); 7,8446 (1,33); 7,8254 (1,80); 7,8051 (1,16); 7,7317 (2,58); 7,7278 (1,28); 7,7190 (0,82); 7,7139 (3,41); 7,7101 (2,40); 7,5687 (0,49); 7,5568 (0,36); 7,5504 (1,66); 7,5446 (0,51); 7,5354 (0,90); 7,5321 (1,43); 7,5287 (0,73); 7,5015 (2,41); 7,4981 (1,07); 7,4860 (1,69); 7,4823 (3,11); 7,4687 (0,51); 7,4646 (1,26); 7,4614 (0,75); 7,4499 (1,15); 7,4432 (0,66); 7,4381 (1,17); 7,4343 (0,98); 7,4269 (2,33); 7,4200 (0,92); 7,4165 (1,17); 7,4107 (0,71); 7,4044 (1,37); 7,3272 (0,45); 7,3154 (3,00); 7,3088 (1,57);

7,3044 (1,99); 7,3026 (1,89); 7,2984 (1,35); 7,2920 (2,28); 7,1682 (1,80); 7,1498 (1,74); 5,3814 (6,18); 3,9278 (6,08); 3,3309 (77,15); 3,0671 (16,00); 2,8905 (8,60); 2,7319 (7,04); 2,5250 (0,86); 2,5201 (1,35); 2,5116 (14,93); 2,5071 (29,35); 2,5025 (38,25); 2,4979 (27,55); 2,4934 (13,01); -0,0002 (7,72)
Ejemplo 30, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,9623 (2,56); 7,5454 (4,64); 7,5077 (2,36); 7,4103 (1,46); 7,3904 (3,38); 7,3590 (6,53); 6,5101 (2,80); 6,4923 (2,68); 6,3971 (2,78); 6,3764 (2,66); 6,0256 (7,00); 5,1800 (9,75); 3,3528 (4,97); 3,0867 (16,00); 2,8990 (10,92); 2,7401 (10,31); 2,5122 (33,53); 2,3438 (15,48); 1,3684 (0,34)
Ejemplo 31, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4632 (2,02); 8,0550 (0,92); 8,0343 (1,16); 7,9530 (0,48); 7,8907 (1,24); 7,8714 (1,69); 7,8512 (1,08); 7,7316 (1,86); 7,7289 (2,49); 7,7250 (1,20); 7,7163 (0,73); 7,7111 (3,35); 7,7074 (2,31); 7,5666 (0,47); 7,5547 (0,35); 7,5483 (1,59); 7,5426 (0,46); 7,5334 (0,85); 7,5300 (1,40); 7,5266 (0,69); 7,4988 (2,28); 7,4953 (0,96); 7,4834 (1,56); 7,4796 (2,97); 7,4661 (0,46); 7,4620 (1,21); 7,4587 (0,68); 7,2092 (1,66); 7,1918 (1,59); 7,0301 (0,88); 7,0259 (0,69); 7,0100 (1,81); 7,0064 (1,26); 6,9842 (0,94); 6,9799 (2,12); 6,9755 (0,85); 6,9600 (3,36); 6,9556 (0,76); 6,9410 (0,94); 6,9369 (0,54); 6,8974 (1,18); 6,8932 (1,16); 6,8784 (0,97); 6,8741 (1,28); 6,8593 (0,54); 6,8552 (0,51); 5,3901 (5,77); 4,7685 (6,26); 3,8129 (15,55); 3,3339 (69,55); 3,0703 (16,00); 2,8906 (4,10); 2,7322 (3,23); 2,7310 (3,16); 2,5252 (0,57); 2,5204 (0,92); 2,5119 (11,58); 2,5074 (23,25); 2,5028 (30,71); 2,4981 (22,16); 2,4936 (10,43); -0,0002 (2,85)
Ejemplo 32, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5046 (1,97); 8,0714 (1,21); 8,0507 (1,44); 7,8316 (1,26); 7,8123 (1,72); 7,7920 (1,17); 7,7263 (1,95); 7,7238 (2,53); 7,7199 (1,25); 7,7111 (0,79); 7,7060 (3,46); 7,7022 (2,34); 7,5642 (0,48); 7,5523 (0,36); 7,5459 (1,62); 7,5401 (0,48); 7,5309 (0,87); 7,5276 (1,41); 7,5242 (0,70); 7,4964 (2,38); 7,4930 (1,00); 7,4811 (1,63); 7,4773 (3,05); 7,4638 (0,48); 7,4596 (1,23); 7,4564 (0,67); 7,1398 (1,73); 7,1223 (1,69); 5,3535 (6,09); 3,3302 (50,68); 3,0535 (16,00); 2,5256 (0,54); 2,5207 (0,86); 2,5122 (10,08); 2,5077 (19,99); 2,5031 (26,30); 2,4985 (19,01); 2,4939 (8,99); 2,3905 (1,50); 2,3722 (2,83); 2,3536 (1,64); 1,5818 (0,77); 1,5641 (1,11); 1,5463 (0,74); 1,2705 (3,87); 1,2642 (4,45); 1,2541 (3,48); 1,2368 (1,95); 0,8754 (0,76); 0,8701 (1,75); 0,8624 (1,34); 0,8532 (5,74); 0,8356 (1,92); -0,0002 (6,01)
Ejemplo 33, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1847 (2,26); 7,8318 (0,33); 7,8107 (2,37); 7,8045 (2,45); 7,7972 (5,68); 7,7836 (0,38); 7,7228 (2,60); 7,7190 (1,28); 7,7102 (0,77); 7,7051 (3,36); 7,7013 (2,32); 7,5624 (0,48); 7,5505 (0,36); 7,5440 (1,64); 7,5383 (0,49); 7,5291 (0,89); 7,5258 (1,43); 7,5224 (0,73); 7,4955 (2,41); 7,4921 (1,03); 7,4802 (1,66); 7,4764 (3,07); 7,4629 (0,48); 7,4588 (1,21); 7,4555 (0,67); 7,1023 (1,29); 7,0950 (1,29); 7,0888 (1,06); 7,0815 (1,24); 5,3323 (6,65); 4,0624 (2,38); 4,0456 (5,06); 4,0289 (2,42); 3,3316 (57,81); 3,0663 (16,00); 2,8908 (2,35); 2,7322 (1,84); 2,7312 (1,85); 2,5254 (0,53); 2,5205 (0,81); 2,5120 (10,19); 2,5075 (20,50); 2,5029 (27,14); 2,4983 (19,73); 2,4938 (9,45); 1,6509 (1,17); 1,6337 (2,43); 1,6154 (2,49); 1,5982 (1,26); 0,9367 (4,25); 0,9183 (8,68); 0,8997 (3,83); -0,0002 (9,66)
Ejemplo 34, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6207 (1,46); 10,5100 (0,68); 8,0663 (0,64); 8,0593 (0,96); 8,0456 (0,78); 8,0385 (1,14); 7,9533 (0,80); 7,9271 (0,69); 7,9082 (0,92); 7,8871 (0,68); 7,8441 (1,02); 7,8340 (0,57); 7,8247 (1,43); 7,8147 (0,71); 7,8046 (0,91); 7,7944 (0,43); 7,7548 (2,52); 7,7369 (3,27); 7,7332 (2,45); 7,7232 (2,85); 7,7053 (3,56); 7,7016 (2,53); 7,5895 (0,51); 7,5865 (0,32); 7,5769 (0,39); 7,5711 (1,62); 7,5655 (0,94); 7,5528 (1,58); 7,5471 (1,90); 7,5414 (0,54); 7,5318 (1,02); 7,5287 (1,53); 7,5254 (0,83); 7,5132 (2,27); 7,4977 (4,11); 7,4940 (3,92); 7,4790 (3,78); 7,4652 (0,59); 7,4613 (1,28); 7,4582 (0,75); 7,1532 (1,37); 7,1348 (1,37); 7,1217 (0,59); 6,9698 (0,93); 6,9412 (1,41); 6,9229 (1,13); 5,3831 (5,27); 5,3573 (5,56); 4,2783 (1,44); 4,2607 (2,68); 4,2431 (1,49); 3,6906 (1,84); 3,6740 (3,88); 3,6576 (1,90); 3,4255 (3,69); 3,4089 (8,93); 3,3836 (60,04); 3,2564 (0,33); 3,2516 (0,35); 3,2395 (0,33); 3,2334 (0,32); 3,0626 (16,00); 3,0570 (15,53); 2,8913 (4,82); 2,7316 (3,93); 2,6729 (0,42); 2,5715 (1,35); 2,5534 (2,62); 2,5449 (1,30); 2,5349 (1,99); 2,5310 (2,66); 2,5261 (1,54); 2,5127 (25,60); 2,5084 (49,26); 2,5038 (63,69); 2,4993 (46,36); 2,4949 (22,25); 2,4447 (1,04); 2,4382 (0,67); 2,4249 (2,44); 2,4201 (1,20); 2,4040 (1,62); 2,3306 (0,42); 2,1795 (0,34); 2,1618 (0,91); 2,1590 (0,59); 2,1419 (1,07); 2,1230 (0,71); 2,0522 (0,43); 2,0353 (1,34); 2,0175 (1,87); 2,0002 (1,21); 1,9828 (0,35); 1,7324 (0,48); 1,7141 (0,67); 1,6965 (0,49); 1,2345 (0,33); -0,0002 (4,61)
Ejemplo 35, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8718 (2,00); 8,0528 (1,58); 8,0323 (1,90); 7,8250 (1,35); 7,8057 (1,88); 7,7855 (1,22); 7,7280 (2,71); 7,7243 (1,36); 7,7153 (0,85); 7,7102 (3,47); 7,7064 (2,56); 7,5663 (0,49); 7,5632 (0,32); 7,5545 (0,36); 7,5480 (1,68); 7,5424 (0,51); 7,5331 (0,91); 7,5298 (1,44); 7,5264 (0,75); 7,4999 (2,50); 7,4845 (1,70); 7,4808 (3,17); 7,4672 (0,49); 7,4631 (1,22); 7,4599 (0,70); 7,1412 (1,90); 7,1230 (1,83); 5,3661 (6,68); 3,3300 (61,03); 3,0561 (16,00); 2,8908 (2,33); 2,7318 (1,87); 2,5252 (0,58); 2,5119 (10,86); 2,5074 (21,30); 2,5029 (27,86); 2,4983 (20,28); 2,4938 (9,71); 2,0339 (0,48); 2,0293 (0,53); 2,0233 (0,42); 2,0162 (0,94); 2,0088 (0,39); 2,0030 (0,53); 1,9987 (0,53); 0,8757 (0,45); 0,8129 (4,44); 0,8057 (3,17); 0,7929 (2,42); 0,7862 (0,84); -0,0002 (4,96)
Ejemplo 36, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2460 (0,33); 7,8570 (0,58); 5,3910 (0,69); 4,1415 (0,46); 3,8432 (1,77); 3,4129 (16,00); 3,1113 (1,64); 2,5736 (1,01); 2,5693 (2,12); 2,5648 (2,89); 2,5604 (2,08); 2,5560 (0,97); 1,3848 (0,40); 0,9402 (0,53)
Ejemplo 37, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5318 (2,14); 8,0721 (1,28); 8,0515 (1,53); 7,8370 (1,30); 7,8177 (1,81); 7,7975 (1,19); 7,7260 (2,07); 7,7237 (2,64); 7,7199 (1,29); 7,7110 (0,84); 7,7059 (3,46); 7,7021 (2,42); 7,5647 (0,49); 7,5615 (0,32); 7,5528 (0,37); 7,5464 (1,67); 7,5407 (0,51); 7,5314 (0,90); 7,5281 (1,44); 7,5248 (0,73); 7,4974 (2,45); 7,4940 (1,08); 7,4820 (1,70); 7,4783 (3,14); 7,4646 (0,50); 7,4606 (1,23); 7,4574 (0,70); 7,1450 (1,82); 7,1266 (1,78); 5,3564 (6,32); 3,3326 (72,03); 3,0560 (16,00); 2,8909 (0,99); 2,7639 (1,41); 2,7572 (3,09); 2,7506 (1,43); 2,7321 (0,80); 2,5253 (0,68); 2,5121 (11,45); 2,5076 (22,26); 2,5030 (29,03); 2,4984 (21,05); 2,4939 (10,05); 2,4166 (1,58); 2,3984 (3,10); 2,3798 (1,72); 2,1999 (1,12); 2,1932 (1,17); 2,1821 (2,56); 2,1755 (2,49); 2,1646 (1,31); 2,1580 (1,20); 1,6938 (0,36); 1,6755 (1,08); 1,6567 (1,47); 1,6505 (0,82); 1,6378 (1,18); 1,6189 (0,49); 1,4968 (0,52); 1,4789 (1,36); 1,4654 (0,87); 1,4592 (1,53); 1,4479 (0,46); 1,4409 (1,10); -0,0002 (5,85)

Ejemplo 38, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4201 (0,81); 7,9526 (1,01); 7,7385 (2,70); 7,7346 (1,31); 7,7261 (0,76); 7,7209 (3,49); 7,7171 (2,41); 7,5667 (0,47); 7,5553 (0,33); 7,5484 (1,67); 7,5425 (0,50); 7,5337 (0,91); 7,5303 (1,51); 7,5268 (0,77); 7,5047 (2,55); 7,5014 (1,08); 7,4896 (1,59); 7,4856 (3,10); 7,4724 (0,48); 7,4682 (1,22); 7,4647 (0,67); 7,3371 (4,84); 7,1550 (1,82); 7,1490 (0,60); 7,1378 (0,81); 7,1322 (3,25); 7,1280 (0,77); 7,1219 (0,34); 7,1168 (0,72); 7,1107 (2,55); 7,0018 (2,50); 6,9957 (0,79); 6,9909 (2,55); 6,9848 (1,20); 6,9788 (1,83); 6,9739 (0,69); 6,9678 (1,79); 5,3423 (5,97); 4,8284 (7,85); 3,3366 (94,01); 3,0211 (16,00); 2,8904 (8,13); 2,7319 (6,30); 2,7309 (6,69); 2,5252 (0,62); 2,5205 (0,97); 2,5119 (12,85); 2,5074 (25,82); 2,5028 (34,30); 2,4982 (24,98); 2,4937 (11,95); -0,0002 (1,87)
Ejemplo 39, Disolvente: DMSO, Espectrómetro: 300,16 MHz
10,0097 (2,45); 7,8064 (1,40); 7,7537 (3,31); 7,7417 (3,41); 7,7253 (3,44); 7,5382 (1,67); 7,5166 (2,48); 7,4949 (2,76); 7,1091 (1,48); 7,0870 (1,40); 5,3399 (5,03); 3,3558 (7,80); 3,3512 (7,52); 3,0891 (8,18); 3,0850 (8,18); 2,9282 (2,25); 2,8184 (4,78); 2,5210 (9,14); 1,5191 (16,00); 1,3792 (0,78); 1,2615 (1,92); 0,8795 (0,98)
Ejemplo 40, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,7892 (1,97); 8,0289 (1,61); 8,0091 (1,98); 7,8398 (1,33); 7,8207 (1,78); 7,8003 (1,20); 7,7243 (2,79); 7,7204 (1,43); 7,7115 (0,91); 7,7064 (3,71); 7,7027 (2,50); 7,5638 (0,52); 7,5606 (0,36); 7,5518 (0,40); 7,5455 (1,71); 7,5398 (0,55); 7,5305 (0,92); 7,5272 (1,47); 7,5239 (0,78); 7,4957 (2,58); 7,4923 (1,14); 7,4802 (1,80); 7,4765 (3,26); 7,4629 (0,52); 7,4588 (1,29); 7,4557 (0,73); 7,1532 (1,79); 7,1357 (1,71); 5,3794 (6,29); 3,3277 (50,30); 3,0878 (0,59); 3,0757 (16,00); 2,8908 (1,39); 2,7321 (1,09); 2,7312 (1,09); 2,5250 (0,66); 2,5117 (12,62); 2,5072 (24,96); 2,5026 (32,84); 2,4980 (23,92); 2,4935 (11,50); 2,1329 (0,75); 2,1212 (0,72); 2,1045 (0,76); 2,0921 (0,69); 1,5114 (0,71); 1,4957 (0,88); 1,4756 (1,03); 1,4525 (0,48); 1,4384 (0,46); 1,3871 (0,33); 1,3621 (0,73); 1,3517 (0,68); 1,3366 (0,97); 1,2984 (1,77); 1,2716 (1,59); 1,2531 (0,78); 1,2457 (0,85); 1,2378 (0,87); 1,1964 (11,91); 1,1791 (0,56); 1,0784 (1,14); 0,8758 (0,58); 0,8623 (0,36); 0,0080 (0,45); -0,0002 (12,32); -0,0085 (0,41)
Ejemplo 41, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7635 (1,63); 7,6175 (3,88); 7,5970 (4,40); 7,3056 (3,82); 7,2853 (3,30); 7,2404 (4,71); 5,2588 (7,03); 4,1594 (2,19); 4,1427 (4,54); 4,1260 (2,21); 3,4666 (0,54); 3,4647 (0,51); 3,4155 (8,00); 3,3657 (567,17); 3,3160 (5,69); 3,0145 (16,00); 2,6768 (0,48); 2,6722 (0,36); 2,5618 (0,82); 2,5576 (1,04); 2,5532 (0,80); 2,5120 (62,60); 2,5078 (80,97); 2,5037 (60,79); 2,4624 (0,90); 2,4583 (0,98); 2,3518 (11,48); 2,3347 (0,83); 1,9934 (0,53); 1,6405 (1,26); 1,6235 (1,99); 1,6063 (1,44); 1,5902 (0,51); 1,3285 (2,73); 1,3204 (4,35); 1,3110 (4,54); 1,3023 (3,00); 1,2702 (0,89); 1,2482 (2,14); 1,1781 (0,32); 0,8955 (2,32); 0,8782 (7,02); 0,8705 (2,97); 0,8613 (4,37); 0,8439 (1,25)
Ejemplo 42, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,0254 (2,58); 8,1759 (1,76); 8,1554 (2,12); 7,9478 (1,32); 7,9283 (1,92); 7,9083 (1,24); 7,8924 (1,34); 7,8899 (1,11); 7,8729 (1,66); 7,8705 (1,45); 7,8610 (1,03); 7,8575 (0,71); 7,8421 (0,83); 7,8362 (0,96); 7,8320 (0,71); 7,6408 (0,66); 7,6367 (0,98); 7,6310 (0,91); 7,6199 (1,28); 7,6163 (1,45); 7,6113 (1,18); 7,6030 (2,24); 7,6008 (2,41); 7,5875 (0,76); 7,5819 (1,16); 7,5676 (1,38); 7,5624 (0,93); 7,5565 (0,92); 7,5501 (1,40); 7,5360 (1,28); 7,5309 (0,66); 7,5154 (0,61); 7,4861 (0,59); 7,4841 (0,64); 7,4795 (0,58); 7,4627 (1,00); 7,4573 (0,90); 7,4400 (0,81); 7,4371 (0,99); 7,4157 (0,94); 7,4120 (0,87); 7,3973 (0,43); 7,3948 (0,45); 7,3912 (0,42); 7,3887 (0,38); 7,2648 (1,94); 7,2466 (1,85); 5,4490 (6,50); 4,0438 (0,49); 4,0260 (0,50); 3,3947 (0,56); 3,3445 (30,39); 3,2944 (0,40); 3,0831 (16,00); 2,5647 (0,40); 2,5602 (0,50); 2,5323 (0,59); 2,5186 (12,69); 2,5143 (26,30); 2,5099 (35,79); 2,5054 (25,86); 2,5011 (12,23); 2,4644 (0,36); 2,4598 (0,39); 1,9965 (2,17); 1,2490 (0,82); 1,1987 (0,60); 1,1809 (1,16); 1,1631 (0,56); 0,8798 (0,37); 0,8631 (1,17); 0,8455 (0,46)
Ejemplo 43, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7323 (2,93); 7,7195 (0,96); 7,7145 (3,65); 7,7108 (2,62); 7,5658 (0,54); 7,5627 (0,37); 7,5542 (0,45); 7,5475 (1,78); 7,5418 (0,57); 7,5327 (1,08); 7,5294 (1,59); 7,5261 (0,85); 7,5023 (2,72); 7,4870 (1,88); 7,4832 (3,39); 7,4697 (0,57); 7,4657 (1,30); 7,4623 (0,78); 7,3826 (1,70); 7,3779 (1,99); 7,3746 (2,56); 7,3615 (3,01); 7,3567 (3,52); 7,3439 (1,57); 7,2839 (1,87); 7,2796 (0,72); 7,2656 (3,56); 7,2463 (1,91); 7,1900 (1,24); 7,1870 (0,76); 7,1765 (0,61); 7,1718 (1,68); 7,1668 (0,48); 7,1536 (0,59); 7,0849 (1,44); 7,0648 (1,49); 6,4965 (2,07); 6,4788 (1,99); 6,4067 (1,60); 6,3858 (1,55); 5,1787 (6,38); 5,0182 (0,49); 5,0001 (0,70); 4,9823 (0,48); 3,3856 (0,80); 3,3356 (42,56); 3,3119 (0,34); 3,2856 (0,63); 2,9802 (16,00); 2,5186 (4,40); 2,5142 (8,84); 2,5097 (11,86); 2,5053 (8,48); 2,5009 (3,99); 1,9177 (0,32); 1,4203 (5,64); 1,4031 (5,60)
Ejemplo 44, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8984 (2,13); 8,1729 (1,55); 8,1528 (1,85); 7,9531 (0,60); 7,9259 (1,20); 7,9065 (1,70); 7,8863 (1,11); 7,7360 (2,46); 7,7322 (1,21); 7,7235 (0,71); 7,7183 (3,19); 7,7146 (2,25); 7,6143 (1,14); 7,6119 (0,98); 7,5953 (3,17); 7,5888 (1,86); 7,5676 (0,46); 7,5558 (0,32); 7,5493 (1,55); 7,5436 (0,46); 7,5344 (0,84); 7,5311 (1,37); 7,5277 (0,69); 7,5013 (2,26); 7,4979 (0,98); 7,4859 (1,52); 7,4821 (2,90); 7,4685 (0,44); 7,4645 (1,15); 7,4612 (0,65); 7,4367 (1,07); 7,4165 (1,89); 7,3971 (1,13); 7,2329 (1,70); 7,2149 (1,65); 7,1635 (0,94); 7,1615 (1,01); 7,1571 (0,97); 7,1551 (0,93); 7,1430 (0,79); 7,1404 (0,80); 7,1370 (0,80); 7,1344 (0,73); 5,4218 (5,82); 3,8501 (16,00); 3,8030 (0,36); 3,3414 (75,06); 3,0860 (14,99); 2,8908 (4,68); 2,7323 (3,81); 2,7313 (3,75); 2,5257 (0,56); 2,5209 (0,89); 2,5124 (10,84); 2,5079 (21,59); 2,5034 (28,45); 2,4988 (20,65); 2,4943 (9,83); -0,0002 (2,50)
Ejemplo 45, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1700 (2,41); 7,9533 (0,33); 7,8296 (0,37); 7,8086 (2,07); 7,8002 (2,23); 7,7940 (5,01); 7,7793 (0,42); 7,7250 (1,89); 7,7224 (2,42); 7,7186 (1,20); 7,7099 (0,75); 7,7047 (3,18); 7,7010 (2,23); 7,5626 (0,46); 7,5508 (0,35); 7,5443 (1,53); 7,5385 (0,47); 7,5294 (0,83); 7,5260 (1,34); 7,5226 (0,69); 7,4957 (2,25); 7,4923 (0,99); 7,4803 (1,55); 7,4766 (2,88); 7,4630 (0,44); 7,4589 (1,14); 7,4557 (0,64); 7,1023 (1,23); 7,0959 (1,22); 7,0879 (1,05); 7,0815 (1,16); 5,3309 (6,06); 4,0886 (1,69); 4,0718 (3,60); 4,0549 (1,71); 3,3454 (102,18); 3,0662 (14,92); 2,8915 (2,58); 2,7329 (2,10); 2,7317 (2,05); 2,5263 (0,57); 2,5130 (9,66); 2,5086 (19,08); 2,5040 (25,08); 2,4994 (18,29); 2,4948 (8,80); 1,6430 (0,43); 1,6259 (1,03); 1,6119 (0,85); 1,6067 (1,14); 1,5995 (0,86); 1,5861 (1,36); 1,5686 (1,08); 1,5515 (0,95); 1,5348 (0,80); 1,5182 (0,43); 1,2581 (1,01); 1,2450 (0,92); 1,2408 (1,40); 1,2381 (1,35); 1,2324 (0,97); 1,2283 (0,83); 1,2188 (1,38); 1,2013 (0,73); 0,8893 (0,94); 0,8808 (16,00); 0,8731 (1,37); 0,8643 (15,22); -0,0002 (1,46)

Ejemplo 46. Disolvente: DMSO. Espectrómetro: 399,95 MHz
11,0119 (1,84); 8,0896 (0,97); 8,0687 (1,17); 7,9529 (1,27); 7,8574 (1,18); 7,8381 (1,61); 7,8178 (1,08); 7,7108 (1,82); 7,7083 (2,40); 7,7045 (1,13); 7,6955 (0,72); 7,6905 (3,19); 7,6867 (2,22); 7,5581 (0,48); 7,5549 (0,32); 7,5459 (0,37); 7,5398 (1,54); 7,5342 (0,49); 7,5247 (0,81); 7,5214 (1,29); 7,5180 (0,65); 7,4867 (2,20); 7,4832 (0,91); 7,4712 (1,56); 7,4675 (2,88); 7,4538 (0,46); 7,4498 (1,17); 7,4467 (0,65); 7,3600 (0,94); 7,3575 (0,84); 7,3465 (16,00); 7,3391 (7,90); 7,3325 (7,19); 7,3258 (0,98); 7,3181 (1,80); 7,3142 (1,05); 7,3116 (1,13); 7,2767 (1,35); 7,2697 (1,65); 7,2631 (1,38); 7,2609 (1,35); 7,2550 (1,78); 7,2473 (0,99); 7,2413 (0,72); 7,2336 (0,47); 7,1685 (1,64); 7,1507 (1,59); 5,4111 (1,96); 5,3530 (5,42); 4,1499 (0,33); 4,1321 (0,33); 3,3723 (0,49); 3,3414 (160,75); 3,0220 (15,01); 2,8903 (10,82); 2,7319 (8,39); 2,7310 (8,34); 2,5255 (0,83); 2,5207 (1,35); 2,5122 (15,28); 2,5076 (30,21); 2,5030 (39,63); 2,4984 (28,45); 2,4939 (13,26); 1,1843 (0,35); 1,1666 (0,74); 1,1488 (0,36); -0,0002 (8,12)
Ejemplo 47. Disolvente: DMSO. Espectrómetro: 399,95 MHz
11,7568 (1,08); 7,7382 (0,48); 7,7303 (2,52); 7,7174 (1,00); 7,7123 (3,26); 7,7085 (2,27); 7,5623 (0,53); 7,5590 (0,36); 7,5508 (0,41); 7,5440 (1,80); 7,5381 (0,56); 7,5293 (1,03); 7,5259 (1,61); 7,5224 (0,80); 7,4998 (2,66); 7,4965 (1,17); 7,4847 (1,78); 7,4808 (3,32); 7,4674 (0,54); 7,4633 (1,30); 7,4597 (0,76); 7,2522 (3,78); 5,2823 (5,46); 4,1986 (1,61); 4,1815 (3,38); 4,1644 (1,62); 4,0909 (0,42); 4,0374 (0,33); 4,0220 (0,34); 3,9781 (0,34); 3,9613 (0,33); 3,3283 (60,16); 3,0484 (0,43); 3,0294 (13,57); 2,9949 (0,45); 2,8908 (2,32); 2,7321 (1,85); 2,7310 (1,78); 2,5250 (0,60); 2,5202 (1,00); 2,5117 (13,08); 2,5071 (26,34); 2,5025 (34,91); 2,4979 (25,44); 2,4934 (12,20); 1,6951 (0,60); 1,6782 (0,78); 1,6614 (0,69); 1,6447 (0,43); 1,5447 (1,01); 1,5277 (2,84); 1,5106 (2,51); 1,4933 (0,84); 1,4862 (0,37); 1,2348 (0,38); 1,1205 (0,57); 1,1053 (0,57); 0,9225 (0,69); 0,9097 (16,00); 0,8931 (15,47); 0,8788 (2,11); 0,8725 (1,79); 0,8603 (1,01); 0,8137 (0,96); 0,8064 (0,35); 0,7971 (0,92); 0,7900 (0,36); 0,0080 (0,40); -0,0002 (12,62); -0,0085 (0,42)
Ejemplo 48. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,5510 (1,98); 8,0744 (1,17); 8,0536 (1,40); 7,8447 (1,34); 7,8253 (1,81); 7,8052 (1,17); 7,7233 (2,71); 7,7196 (1,30); 7,7104 (0,82); 7,7055 (3,48); 7,7017 (2,39); 7,5639 (0,49); 7,5520 (0,36); 7,5455 (1,69); 7,5399 (0,48); 7,5306 (0,89); 7,5273 (1,42); 7,5240 (0,73); 7,4964 (2,50); 7,4808 (1,71); 7,4772 (3,18); 7,4635 (0,49); 7,4595 (1,22); 7,4564 (0,70); 7,1539 (1,85); 7,1357 (1,74); 5,3768 (0,36); 5,3585 (6,41); 3,6536 (1,84); 3,6379 (4,14); 3,6223 (1,96); 3,4447 (1,40); 3,4272 (4,47); 3,4097 (4,54); 3,3922 (1,48); 3,3337 (93,21); 3,0551 (16,00); 2,8906 (1,56); 2,7311 (1,26); 2,6422 (1,75); 2,6266 (3,60); 2,6109 (1,65); 2,5252 (0,55); 2,5118 (11,81); 2,5074 (23,64); 2,5028 (31,28); 2,4982 (22,84); 2,4937 (10,97); 1,0934 (4,59); 1,0759 (9,31); 1,0584 (4,44); -0,0002 (5,00)
Ejemplo 49. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,2863 (2,97); 7,9533 (0,95); 7,8241 (0,78); 7,8031 (1,97); 7,7856 (2,37); 7,7725 (2,64); 7,7537 (1,10); 7,7217 (3,16); 7,7037 (3,78); 7,7001 (2,94); 7,6773 (0,33); 7,5623 (0,72); 7,5593 (0,63); 7,5446 (4,04); 7,5258 (1,82); 7,4949 (2,93); 7,4756 (3,65); 7,4579 (1,56); 7,4307 (1,31); 7,4111 (1,55); 7,3381 (1,16); 7,3189 (2,10); 7,2857 (2,27); 7,2664 (2,76); 7,2613 (1,04); 7,2466 (1,27); 7,1057 (1,74); 7,1035 (1,80); 7,0884 (1,71); 7,0861 (1,70); 5,3324 (7,17); 5,3085 (0,52); 4,3076 (1,89); 4,2910 (4,10); 4,2744 (2,04); 3,3303 (65,47); 3,3068 (4,07); 3,0606 (16,00); 3,0371 (0,88); 3,0206 (0,32); 3,0046 (0,32); 2,9542 (1,75); 2,9377 (3,46); 2,9213 (1,76); 2,8906 (6,69); 2,8670 (0,33); 2,7316 (5,59); 2,5112 (17,01); 2,5072 (30,80); 2,5027 (39,61); 2,4983 (29,86); 2,4795 (3,61); 1,2347 (0,39); 0,0075 (0,44); -0,0002 (6,95); -0,0082 (0,42)
Ejemplo 50. Disolvente: DMSO. Espectrómetro: 399,95 MHz
12,5452 (0,92); 7,9531 (0,69); 7,7390 (1,89); 7,7362 (2,54); 7,7323 (1,20); 7,7239 (0,75); 7,7187 (3,36); 7,7149 (2,29); 7,5664 (0,47); 7,5549 (0,33); 7,5481 (1,60); 7,5422 (0,48); 7,5334 (0,88); 7,5300 (1,44); 7,5264 (0,71); 7,5035 (2,35); 7,5001 (0,98); 7,4885 (1,53); 7,4845 (2,93); 7,4711 (0,46); 7,4670 (1,18); 7,4635 (0,64); 7,3334 (4,28); 7,1878 (0,92); 7,1675 (1,79); 7,1483 (0,76); 7,1463 (0,93); 6,5383 (0,76); 6,5358 (0,89); 6,5334 (0,98); 6,5309 (1,00); 6,5163 (0,79); 6,5118 (1,14); 6,5106 (1,09); 6,4930 (0,98); 6,4866 (2,77); 6,4834 (3,02); 6,4656 (1,11); 6,4598 (0,75); 5,3393 (5,31); 5,0533 (0,34); 5,0369 (1,31); 5,0204 (1,32); 5,0038 (0,34); 3,6961 (16,00); 3,3466 (81,44); 3,0198 (0,71); 3,0116 (15,09); 2,8909 (5,66); 2,7329 (4,46); 2,7317 (4,50); 2,5266 (0,40); 2,5217 (0,63); 2,5132 (8,04); 2,5087 (16,11); 2,5041 (21,24); 2,4994 (15,32); 2,4949 (7,20); 1,5351 (4,98); 1,5186 (4,92); -0,0002 (1,37)
Ejemplo 51. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,6093 (1,98); 8,0360 (0,78); 8,0154 (0,99); 7,9529 (0,47); 7,8853 (1,19); 7,8660 (1,63); 7,8458 (1,02); 7,7312 (1,80); 7,7287 (2,34); 7,7248 (1,12); 7,7160 (0,68); 7,7109 (3,10); 7,7071 (2,15); 7,5671 (0,44); 7,5488 (1,49); 7,5431 (0,43); 7,5338 (0,79); 7,5305 (1,29); 7,5271 (0,63); 7,4993 (2,15); 7,4958 (0,89); 7,4838 (1,48); 7,4801 (2,78); 7,4665 (0,42); 7,4624 (1,13); 7,4592 (0,61); 7,2131 (1,01); 7,2054 (1,79); 7,1976 (0,51); 7,1935 (1,04); 7,1885 (1,85); 7,1714 (1,26); 6,5619 (0,61); 6,5590 (0,91); 6,5572 (0,94); 6,5543 (1,15); 6,5382 (4,39); 6,5340 (3,31); 6,5272 (0,69); 6,5232 (1,17); 6,5201 (0,90); 6,5153 (0,44); 5,3850 (5,51); 4,7744 (5,49); 3,7264 (16,00); 3,3359 (75,79); 3,0697 (14,58); 2,8905 (3,90); 2,7320 (3,10); 2,7309 (3,03); 2,5253 (0,55); 2,5205 (0,87); 2,5119 (10,89); 2,5074 (21,83); 2,5028 (28,72); 2,4982 (20,67); 2,4937 (9,70); -0,0002 (2,40)
Ejemplo 52. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,5643 (1,54); 8,0510 (0,88); 8,0302 (1,05); 7,9531 (0,40); 7,8350 (1,27); 7,8157 (1,73); 7,7955 (1,16); 7,7264 (1,89); 7,7239 (2,51); 7,7200 (1,26); 7,7113 (0,78); 7,7061 (3,47); 7,7024 (2,31); 7,5651 (0,48); 7,5533 (0,35); 7,5468 (1,58); 7,5411 (0,47); 7,5319 (0,85); 7,5286 (1,40); 7,5251 (0,70); 7,4982 (2,36); 7,4947 (1,02); 7,4829 (1,58); 7,4791 (2,98); 7,4655 (0,46); 7,4614 (1,19); 7,4582 (0,66); 7,1454 (1,72); 7,1281 (1,65); 5,3545 (6,40); 3,3372 (100,07); 3,0527 (16,00); 2,8909 (3,30); 2,7322 (2,56); 2,7312 (2,58); 2,5257 (0,58); 2,5208 (0,94); 2,5123 (10,62); 2,5078 (21,02); 2,5032 (27,63); 2,4986 (19,95); 2,4941 (9,41); 2,0857 (14,04); 2,0777 (0,59); 1,2832 (0,34); 0,8757 (0,59); 0,8624 (0,34); -0,0002 (5,06)
Ejemplo 53. Disolvente: DMSO. Espectrómetro: 399,95 MHz
11,7519 (1,32); 7,7380 (0,41); 7,7325 (2,01); 7,7297 (2,63); 7,7258 (1,33); 7,7173 (0,93); 7,7121 (3,48); 7,7083 (2,41); 7,5624 (0,50); 7,5591 (0,34); 7,5509 (0,37); 7,5441 (1,71); 7,5382 (0,54); 7,5293 (0,98); 7,5259 (1,56); 7,5224 (0,79); 7,4998 (2,58); 7,4965 (1,15); 7,4848 (1,73); 7,4808 (3,20); 7,4674 (0,55); 7,4633 (1,31); 7,4598 (0,78); 7,2507 (4,08); 5,2821 (5,73); 4,1571 (1,77); 4,1404 (3,86); 4,1237 (1,81); 4,0502

(0,37); 3,3370 (86,57); 3,3043 (0,38); 3,0488 (0,33); 3,0295 (16,00); 3,0146 (0,37); 2,9877 (0,47); 2,8913 (0,81); 2,7326 (0,65); 2,7313 (0,62); 2,5257 (0,61); 2,5209 (1,02); 2,5124 (11,52); 2,5079 (22,88); 2,5033 (30,10); 2,4987 (21,78); 2,4942 (10,36); 1,6314 (1,02); 1,6143 (1,43); 1,5950 (1,25); 1,5781 (0,49); 1,3518 (0,70); 1,3353 (0,97); 1,3314 (0,95); 1,3223 (0,83); 1,3134 (1,16); 1,2903 (3,23); 1,2809 (2,75); 1,2740 (3,07); 1,2660 (1,70); 1,2563 (0,99); 1,2351 (0,45); 1,1207 (0,63); 1,1055 (0,61); 0,8872 (0,61); 0,8813 (1,73); 0,8643 (5,42); 0,8471 (1,72); 0,8205 (0,38); 0,0080 (0,34); -0,0002 (9,49)

Ejemplo 54, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,8752 (2,27); 8,1766 (1,70); 8,1563 (2,02); 8,0342 (2,65); 8,0211 (0,79); 8,0164 (3,14); 8,0128 (2,29); 7,9532 (0,73); 7,9258 (1,33); 7,9064 (1,86); 7,8862 (1,22); 7,7463 (0,35); 7,7381 (2,65); 7,7343 (1,30); 7,7254 (0,83); 7,7203 (3,41); 7,7164 (2,36); 7,6198 (0,34); 7,6167 (0,58); 7,6136 (0,34); 7,6037 (0,42); 7,5984 (1,65); 7,5933 (0,49); 7,5831 (0,76); 7,5800 (1,27); 7,5768 (0,69); 7,5678 (0,51); 7,5646 (0,36); 7,5559 (0,37); 7,5493 (1,73); 7,5437 (0,58); 7,5343 (1,33); 7,5306 (3,22); 7,5102 (3,39); 7,5018 (2,63); 7,4981 (1,28); 7,4922 (1,57); 7,4897 (1,24); 7,4866 (1,85); 7,4825 (3,17); 7,4690 (0,49); 7,4649 (1,22); 7,4617 (0,68); 7,2313 (1,86); 7,2131 (1,77); 5,4203 (6,48); 3,3357 (90,19); 3,0861 (16,00); 3,0220 (0,36); 2,8906 (5,67); 2,7315 (4,54); 2,5254 (0,57); 2,5121 (11,61); 2,5076 (23,03); 2,5030 (30,30); 2,4984 (21,97); 2,4939 (10,47); 0,0079 (0,38); -0,0002 (10,47)

Ejemplo 55, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,4362 (0,68); 7,9524 (1,44); 7,7380 (2,85); 7,7342 (1,42); 7,7203 (3,63); 7,7165 (2,58); 7,5670 (0,50); 7,5638 (0,34); 7,5556 (0,35); 7,5486 (1,84); 7,5428 (0,55); 7,5340 (0,99); 7,5306 (1,65); 7,5272 (0,85); 7,5050 (2,80); 7,4899 (1,79); 7,4858 (3,72); 7,4764 (4,26); 7,4708 (1,70); 7,4687 (1,70); 7,4650 (0,98); 7,4594 (1,36); 7,4538 (4,56); 7,4451 (0,42); 7,3375 (5,05); 6,9640 (0,40); 6,9553 (4,29); 6,9497 (1,30); 6,9382 (1,24); 6,9326 (4,04); 6,9239 (0,52); 5,3415 (6,44); 4,9711 (0,83); 4,8566 (7,26); 3,3437 (154,86); 3,0349 (2,07); 3,0231 (16,00); 3,0083 (0,42); 2,8908 (11,54); 2,7312 (9,32); 2,5257 (0,83); 2,5208 (1,37); 2,5123 (16,37); 2,5078 (32,60); 2,5033 (43,10); 2,4987 (31,36); 2,4942 (14,97); -0,0002 (1,53)

Ejemplo 56, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1719 (2,73); 7,9534 (0,38); 7,8298 (0,35); 7,8088 (2,32); 7,8018 (2,45); 7,7949 (5,68); 7,7808 (0,42); 7,7247 (1,99); 7,7222 (2,56); 7,7183 (1,24); 7,7095 (0,78); 7,7044 (3,43); 7,7006 (2,37); 7,5624 (0,48); 7,5506 (0,36); 7,5441 (1,64); 7,5384 (0,48); 7,5292 (0,88); 7,5259 (1,41); 7,5225 (0,71); 7,4954 (2,38); 7,4920 (1,00); 7,4801 (1,64); 7,4763 (3,06); 7,4627 (0,47); 7,4587 (1,22); 7,4554 (0,67); 7,1020 (1,29); 7,0950 (1,27); 7,0882 (1,09); 7,0812 (1,23); 5,3304 (6,47); 4,1488 (0,95); 4,1424 (1,15); 4,1333 (1,24); 4,1299 (1,20); 4,1248 (2,03); 4,1153 (1,01); 4,1079 (0,85); 3,3424 (114,20); 3,0653 (16,00); 2,8915 (3,12); 2,7327 (2,47); 2,7318 (2,36); 2,5263 (0,49); 2,5214 (0,79); 2,5130 (9,87); 2,5084 (19,71); 2,5038 (26,01); 2,4992 (18,86); 2,4947 (8,98); 1,6653 (0,35); 1,6526 (0,68); 1,6334 (0,71); 1,6208 (0,57); 1,4904 (0,49); 1,4735 (0,58); 1,4588 (0,69); 1,4426 (0,85); 1,4272 (0,79); 1,4101 (0,63); 1,3907 (0,44); 1,3838 (0,42); 1,3702 (0,43); 1,3652 (0,46); 1,3509 (0,73); 1,3373 (0,54); 1,3318 (0,64); 1,3186 (0,50); 1,1993 (0,56); 1,1809 (0,89); 1,1654 (0,63); 1,1628 (0,70); 1,1473 (0,72); 1,1291 (0,46); 0,8923 (7,35); 0,8761 (7,67); 0,8715 (4,41); 0,8529 (8,39); 0,8344 (3,20); -0,0002 (1,69)

Ejemplo 57, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,7535 (1,68); 7,9525 (1,45); 7,7420 (2,08); 7,7392 (2,76); 7,7354 (1,45); 7,7267 (0,89); 7,7216 (3,48); 7,7179 (2,59); 7,6441 (1,18); 7,6411 (1,29); 7,6255 (1,55); 7,6220 (1,61); 7,5952 (0,64); 7,5922 (0,83); 7,5751 (2,18); 7,5722 (2,29); 7,5651 (1,69); 7,5610 (1,41); 7,5541 (0,53); 7,5472 (3,21); 7,5432 (1,86); 7,5324 (1,09); 7,5289 (1,86); 7,5231 (0,93); 7,5037 (2,59); 7,5005 (1,29); 7,4886 (1,81); 7,4846 (3,59); 7,4789 (1,79); 7,4713 (0,72); 7,4670 (1,75); 7,4640 (2,20); 7,4609 (1,68); 7,4461 (0,72); 7,4424 (0,68); 7,3992 (4,05); 5,3631 (6,03); 3,3442 (117,73); 3,0457 (16,00); 2,8909 (10,77); 2,7322 (9,09); 2,7308 (8,86); 2,5255 (0,68); 2,5121 (13,58); 2,5076 (26,45); 2,5031 (34,39); 2,4985 (25,53); 2,4941 (12,66); -0,0002 (1,25)

Ejemplo 58, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,3551 (0,43); 10,3115 (7,26); 8,3851 (0,33); 7,8845 (0,33); 7,8375 (2,37); 7,8176 (5,07); 7,8004 (10,27); 7,7837 (14,27); 7,7641 (2,76); 7,7411 (0,59); 7,7194 (0,39); 7,6537 (0,36); 7,6311 (1,91); 7,5722 (1,56); 7,5538 (4,13); 7,5356 (3,52); 7,5062 (6,33); 7,4897 (9,13); 7,4868 (9,11); 7,4686 (2,99); 7,3490 (2,16); 7,0658 (4,27); 7,0485 (4,20); 5,4362 (0,72); 5,3459 (16,00); 4,1885 (4,96); 4,1719 (10,50); 4,1553 (5,32); 4,0587 (0,57); 4,0402 (1,80); 4,0225 (1,70); 4,0046 (0,59); 3,4983 (1,04); 3,4907 (1,16); 3,3563 (2317,28); 3,3345 (45,91); 3,2320 (2,12); 3,1656 (0,62); 3,1409 (0,47); 2,9133 (3,25); 2,9069 (6,58); 2,9004 (3,36); 2,8852 (0,35); 2,6755 (1,96); 2,5706 (4,74); 2,5644 (5,28); 2,5541 (9,00); 2,5474 (9,66); 2,5371 (8,98); 2,5099 (258,76); 2,5063 (322,76); 2,3327 (2,37); 2,2491 (0,34); 2,2060 (0,33); 2,0761 (0,56); 1,9924 (7,15); 1,2839 (0,38); 1,2486 (1,45); 1,1947 (1,94); 1,1771 (3,72); 1,1597 (1,92); 0,8735 (0,54); 0,8609 (1,48); 0,8452 (0,66)

Ejemplo 59, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5388 (0,75); 8,0594 (0,45); 8,0386 (0,54); 7,8303 (0,47); 7,8109 (0,66); 7,7907 (0,43); 7,7245 (0,97); 7,7208 (0,48); 7,7068 (1,25); 7,7030 (0,88); 7,5464 (0,61); 7,5315 (0,33); 7,5282 (0,52); 7,4973 (0,90); 7,4940 (0,39); 7,4818 (0,62); 7,4781 (1,15); 7,4605 (0,45); 7,1379 (0,67); 7,1202 (0,64); 5,3552 (2,34); 3,3292 (18,57); 3,0546 (5,87); 2,8908 (1,64); 2,7320 (1,30); 2,7312 (1,29); 2,5118 (4,25); 2,5073 (8,32); 2,5027 (10,90); 2,4981 (7,96); 2,4937 (3,84); 2,3834 (0,64); 2,3680 (0,42); 2,3632 (0,67); 2,3574 (0,40); 2,3426 (0,70); 1,5193 (0,79); 1,5043 (0,43); 1,4985 (0,70); 1,4938 (0,45); 1,4784 (0,71); 0,8796 (16,00); -0,0002 (2,86)

Ejemplo 60, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1438 (2,72); 7,9531 (0,74); 7,8047 (0,76); 7,7837 (1,74); 7,7659 (1,99); 7,7503 (2,03); 7,7479 (2,29); 7,7295 (1,23); 7,7256 (2,45); 7,7228 (2,81); 7,7190 (1,38); 7,7101 (0,84); 7,7050 (3,53); 7,7012 (2,48); 7,5639 (0,49); 7,5608 (0,33); 7,5521 (0,36); 7,5456 (1,65); 7,5399 (0,53); 7,5307 (0,89); 7,5274 (1,45); 7,5240 (0,77); 7,4969 (2,52); 7,4936 (1,11); 7,4815 (1,70); 7,4777 (3,18); 7,4642 (0,52); 7,4601 (1,26); 7,4569 (0,73); 7,3101 (0,46); 7,3038 (0,33); 7,2930 (9,21); 7,2820 (8,50); 7,2638 (0,72); 7,2601 (0,83); 7,2449 (0,55); 7,2422 (0,72); 7,2205 (0,95); 7,2094 (1,08); 7,1984 (1,23); 7,1881 (0,72); 7,1849 (0,76); 7,1770 (0,36); 7,0919 (1,53); 7,0894 (1,59); 7,0743 (1,51); 7,0717 (1,48); 5,3278 (6,23); 5,0059 (0,52); 4,9908 (0,98); 4,9752 (0,97); 4,9584 (0,54); 3,3899 (0,38); 3,3485 (165,03); 3,0645 (16,00); 2,9281 (0,69); 2,9105 (0,55); 2,8909 (6,45); 2,8830 (0,37); 2,8765 (1,32); 2,8570 (1,29); 2,8427 (1,37); 2,8229 (0,57); 2,8087 (0,50); 2,7317 (4,89); 2,5263 (0,65); 2,5130

(12,58); 2,5085 (25,04); 2,5039 (32,97); 2,4993 (24,03); 2,4948 (11,56); 1,3012 (0,99); 1,2855 (0,98); 1,2321 (6,28); 1,2165 (6,11); -0,0002 (3,72)
Ejemplo 61, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,0934 (6,86); 7,8319 (1,42); 7,8110 (4,22); 7,7939 (6,37); 7,7908 (5,85); 7,7869 (5,91); 7,7696 (1,74); 7,7660 (1,14); 7,7264 (6,39); 7,7086 (7,84); 7,7049 (5,67); 7,5741 (1,13); 7,5711 (0,81); 7,5623 (1,04); 7,5558 (3,81); 7,5501 (1,31); 7,5409 (2,36); 7,5377 (3,40); 7,5345 (1,89); 7,5102 (5,90); 7,4947 (4,24); 7,4911 (7,16); 7,4775 (1,33); 7,4735 (2,74); 7,4703 (1,67); 7,0919 (3,36); 7,0884 (3,37); 7,0751 (3,21); 7,0716 (3,13); 5,7665 (4,63); 5,3415 (14,80); 4,6794 (1,01); 4,6671 (1,18); 4,6570 (1,86); 4,6476 (1,36); 4,6348 (0,92); 4,6254 (0,51); 3,5308 (1,95); 3,5127 (6,35); 3,4945 (6,46); 3,4764 (2,02); 3,3905 (1,14); 3,3406 (77,67); 3,3170 (0,72); 3,2904 (0,93); 2,5603 (0,43); 2,5558 (0,33); 2,5189 (12,38); 2,5147 (23,99); 2,5103 (31,66); 2,5059 (22,93); 2,5018 (11,08); 2,4647 (0,37); 2,4603 (0,42); 1,8689 (1,91); 1,8563 (2,21); 1,8423 (2,28); 1,7304 (1,91); 1,7221 (2,06); 1,7079 (2,22); 1,5236 (1,00); 1,5147 (1,06); 1,4936 (1,18); 1,4677 (1,05); 1,4594 (0,94); 1,4351 (2,23); 1,4106 (2,82); 1,3851 (2,90); 1,3719 (1,69); 1,3584 (2,54); 1,3327 (2,03); 1,3265 (2,22); 1,3007 (1,22); 1,2813 (1,02); 1,2507 (1,38); 1,2405 (1,27); 1,2271 (1,08); 1,2097 (0,64); 1,0652 (7,47); 1,0471 (16,00); 1,0289 (6,94)
Ejemplo 62, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5328 (2,07); 8,0693 (1,32); 8,0486 (1,57); 7,8330 (1,31); 7,8136 (1,87); 7,7934 (1,20); 7,7231 (2,73); 7,7103 (0,86); 7,7053 (3,48); 7,7016 (2,44); 7,5649 (0,51); 7,5618 (0,33); 7,5530 (0,39); 7,5466 (1,69); 7,5410 (0,50); 7,5316 (0,93); 7,5284 (1,45); 7,5251 (0,74); 7,4975 (2,52); 7,4820 (1,78); 7,4783 (3,18); 7,4646 (0,51); 7,4606 (1,23); 7,4575 (0,70); 7,1408 (1,90); 7,1228 (1,81); 5,3557 (6,62); 3,3433 (112,40); 3,3109 (0,36); 3,0531 (16,00); 2,8912 (2,26); 2,7317 (1,85); 2,5260 (0,67); 2,5127 (11,48); 2,5083 (22,15); 2,5038 (28,70); 2,4992 (20,81); 2,4947 (9,94); 2,4795 (1,96); 2,4612 (2,90); 2,4422 (1,93); 1,5070 (0,98); 1,4890 (2,25); 1,4702 (2,27); 1,4523 (0,95); 0,7231 (0,43); 0,7173 (0,39); 0,7133 (0,34); 0,7054 (0,72); 0,6975 (0,35); 0,6929 (0,41); 0,6858 (0,47); 0,3938 (0,77); 0,3836 (2,14); 0,3794 (2,21); 0,3738 (0,95); 0,3696 (1,05); 0,3635 (2,15); 0,3593 (1,96); 0,3496 (0,76); 0,0611 (0,78); 0,0509 (2,30); 0,0475 (2,45); 0,0388 (2,25); 0,0353 (2,26); 0,0247 (0,62); -0,0002 (7,48)
Ejemplo 63, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7229 (1,56); 8,3829 (0,46); 8,3620 (0,86); 8,3425 (0,72); 8,1789 (0,32); 8,1410 (0,89); 8,1381 (1,02); 8,1203 (1,17); 8,1168 (1,00); 8,0789 (0,75); 8,0583 (0,93); 7,9526 (0,74); 7,8660 (1,20); 7,8468 (1,58); 7,8266 (1,03); 7,8158 (0,33); 7,7972 (0,67); 7,7787 (0,45); 7,7418 (1,63); 7,7238 (4,26); 7,7048 (3,39); 7,7011 (2,36); 7,6486 (1,05); 7,6443 (0,96); 7,6280 (1,50); 7,6139 (0,47); 7,6095 (0,91); 7,6029 (0,45); 7,5997 (0,60); 7,5965 (0,48); 7,5870 (0,60); 7,5815 (1,82); 7,5763 (1,12); 7,5628 (2,00); 7,5524 (0,57); 7,5461 (1,90); 7,5403 (0,71); 7,5310 (1,15); 7,5276 (2,01); 7,5236 (2,14); 7,5025 (2,77); 7,4967 (2,92); 7,4886 (0,89); 7,4811 (3,37); 7,4774 (3,94); 7,4616 (3,04); 7,4481 (1,05); 7,4448 (1,04); 7,4401 (0,98); 7,4317 (0,53); 7,1885 (0,53); 7,1743 (1,79); 7,1567 (1,68); 7,0494 (0,33); 7,0316 (0,33); 6,4903 (0,70); 6,4782 (0,32); 6,4718 (0,72); 5,7781 (2,99); 5,3760 (1,33); 5,3658 (5,60); 4,7148 (0,79); 4,6973 (1,38); 4,6802 (0,92); 4,6669 (0,42); 4,6478 (0,39); 3,8819 (1,66); 3,8662 (3,52); 3,8506 (1,79); 3,3707 (8,60); 3,3284 (192,98); 3,0960 (10,49); 3,0593 (7,61); 3,0555 (16,00); 3,0523 (4,74); 3,0422 (1,91); 2,9579 (1,08); 2,9400 (1,91); 2,9263 (2,53); 2,9109 (3,38); 2,8950 (1,87); 2,8905 (6,69); 2,7503 (0,46); 2,7312 (5,05); 2,6802 (0,34); 2,6756 (0,73); 2,6710 (1,00); 2,6665 (0,70); 2,5244 (2,72); 2,5196 (4,18); 2,5111 (55,95); 2,5065 (113,37); 2,5019 (151,00); 2,4973 (109,61); 2,4928 (52,06); 2,3377 (0,37); 2,3333 (0,75); 2,3287 (1,02); 2,3241 (0,74); 2,3196 (0,35); 1,9090 (0,74); 1,2358 (1,11); 0,8539 (0,35); 0,0080 (1,83); -0,0002 (57,04); -0,0085 (1,68)
Ejemplo 64, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8680 (2,25); 8,0124 (1,32); 7,9918 (1,74); 7,9532 (0,79); 7,8730 (1,39); 7,8537 (1,92); 7,8335 (1,16); 7,7274 (2,81); 7,7144 (0,88); 7,7095 (3,56); 7,7058 (2,55); 7,5678 (0,51); 7,5647 (0,33); 7,5557 (0,40); 7,5494 (1,73); 7,5439 (0,53); 7,5344 (0,94); 7,5312 (1,46); 7,5279 (0,77); 7,4985 (2,55); 7,4828 (1,85); 7,4793 (3,28); 7,4654 (0,55); 7,4616 (1,30); 7,4586 (0,76); 7,3313 (1,15); 7,3257 (0,32); 7,3101 (2,59); 7,2891 (1,61); 7,2088 (1,93); 7,1907 (1,86); 7,0128 (3,47); 7,0073 (2,68); 7,0021 (1,71); 6,9968 (1,43); 6,9952 (1,47); 6,9123 (1,06); 6,9101 (1,12); 6,9068 (1,02); 6,9047 (0,96); 6,8912 (1,04); 6,8897 (1,03); 6,8854 (0,99); 5,3897 (6,43); 5,1387 (0,34); 5,1226 (1,13); 5,1062 (1,14); 5,0899 (0,34); 3,3374 (98,89); 3,0642 (16,00); 2,8910 (6,17); 2,7317 (4,95); 2,5259 (0,74); 2,5124 (14,35); 2,5080 (27,93); 2,5035 (36,37); 2,4989 (26,54); 2,4945 (12,86); 1,5377 (5,80); 1,5213 (5,72); -0,0002 (2,08)
Ejemplo 65, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6872 (2,25); 8,0182 (0,71); 7,9976 (0,92); 7,9527 (0,83); 7,8811 (1,33); 7,8619 (1,81); 7,8416 (1,11); 7,7279 (2,61); 7,7241 (1,26); 7,7152 (0,78); 7,7101 (3,42); 7,7064 (2,37); 7,5683 (0,49); 7,5564 (0,36); 7,5500 (1,64); 7,5443 (0,48); 7,5350 (0,87); 7,5317 (1,42); 7,5283 (0,71); 7,5005 (2,41); 7,4971 (1,04); 7,4849 (1,95); 7,4814 (3,29); 7,4756 (4,59); 7,4700 (1,42); 7,4637 (1,43); 7,4587 (1,65); 7,4530 (4,56); 7,4442 (0,39); 7,2039 (1,77); 7,1861 (1,68); 6,9528 (0,42); 6,9441 (4,29); 6,9385 (1,26); 6,9270 (1,22); 6,9215 (3,97); 6,9127 (0,33); 5,3821 (6,15); 4,8083 (5,61); 3,3429 (143,71); 3,3076 (0,38); 3,0661 (16,00); 2,8908 (6,80); 2,7319 (5,24); 2,7312 (5,34); 2,5258 (0,71); 2,5209 (1,16); 2,5124 (14,14); 2,5079 (28,18); 2,5033 (37,11); 2,4987 (26,84); 2,4942 (12,72); -0,0002 (0,63)
Ejemplo 66, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6366 (2,23); 8,0298 (0,83); 8,0093 (1,06); 7,8832 (1,35); 7,8638 (1,84); 7,8436 (1,15); 7,7281 (2,63); 7,7243 (1,26); 7,7154 (0,76); 7,7103 (3,43); 7,7065 (2,38); 7,5681 (0,48); 7,5562 (0,35); 7,5497 (1,65); 7,5442 (0,47); 7,5348 (0,86); 7,5315 (1,41); 7,5282 (0,72); 7,5004 (2,42); 7,4970 (1,02); 7,4849 (1,63); 7,4812 (3,10); 7,4676 (0,47); 7,4635 (1,22); 7,4603 (0,69); 7,2047 (1,81); 7,1865 (1,72); 7,1554 (1,85); 7,1495 (0,60); 7,1383 (0,81); 7,1328 (3,23); 7,1285 (0,74); 7,1224 (0,33); 7,1173 (0,71); 7,1112 (2,49); 6,9915 (2,48); 6,9854 (0,79); 6,9805 (2,52); 6,9745 (1,19); 6,9685 (1,83); 6,9635 (0,69); 6,9576 (1,78); 5,3827 (6,30); 4,7789 (6,47); 3,3427 (116,03); 3,0663 (16,00); 2,8908 (0,57); 2,7314 (0,44); 2,5259 (0,59); 2,5211 (0,94); 2,5125 (12,03); 2,5080 (24,07); 2,5035 (31,81); 2,4988 (23,05); 2,4943 (10,95); -0,0002 (0,76)
Ejemplo 67, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5993 (1,82); 9,1108 (1,66); 9,0962 (1,84); 8,6341 (0,47); 8,6147 (1,06); 8,5952 (0,64); 8,4425 (2,28); 8,1891 (1,06); 8,1707 (1,63); 8,1543 (1,14); 8,0594 (0,95); 8,0392 (1,18); 7,8476 (0,94); 7,8278 (1,38); 7,8079 (0,92); 7,7257 (2,11); 7,7078 (2,67); 7,7041 (2,13); 7,5766 (0,37);

7,5581 (1,35); 7,5399 (1,16); 7,5070 (1,93); 7,4877 (2,53); 7,4700 (1,04); 7,1633 (1,46); 7,1449 (1,45); 5,3555 (4,71); 4,6487 (0,94); 4,6306 (1,84); 4,6126 (1,04); 3,5220 (0,60); 3,4965 (1,34); 3,4471 (16,00); 3,3968 (911,69); 3,3470 (19,34); 3,2969 (2,10); 3,2676 (0,98); 3,2281 (0,66); 3,1869 (0,44); 3,1680 (0,34); 3,1020 (0,37); 3,0512 (11,93); 2,6848 (0,88); 2,6802 (1,19); 2,6756 (0,99); 2,6109 (0,34); 2,5660 (2,35); 2,5616 (3,07); 2,5571 (2,61); 2,5525 (2,00); 2,5333 (5,11); 2,5199 (65,47); 2,5156 (134,39); 2,5112 (183,81); 2,5067 (138,75); 2,5025 (71,95); 2,4707 (4,11); 2,4658 (3,82); 2,4611 (4,02); 2,4562 (3,69); 2,4530 (3,49); 2,4352 (1,51); 2,3425 (0,79); 2,3381 (1,09); 2,3336 (0,84); 1,9767 (0,71); 1,9569 (1,03); 1,9392 (0,80); 1,6144 (0,35); 1,5965 (0,84); 1,5778 (1,03); 1,5580 (0,75)
Ejemplo 68, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3171 (2,77); 7,8219 (0,76); 7,8011 (1,72); 7,7834 (1,99); 7,7697 (2,19); 7,7672 (2,40); 7,7490 (1,03); 7,7275 (2,73); 7,7097 (3,44); 7,7060 (2,42); 7,5683 (0,53); 7,5567 (0,45); 7,5500 (1,72); 7,5444 (0,53); 7,5351 (0,97); 7,5318 (1,45); 7,5007 (2,52); 7,4852 (1,82); 7,4815 (3,19); 7,4638 (1,29); 7,4451 (1,37); 7,4413 (1,84); 7,4236 (3,52); 7,3981 (2,13); 7,3932 (0,69); 7,3801 (3,38); 7,3607 (1,53); 7,3220 (0,78); 7,3184 (1,21); 7,3148 (0,66); 7,3062 (0,56); 7,3005 (1,46); 7,2953 (0,39); 7,2827 (0,50); 7,1078 (1,57); 7,1054 (1,50); 7,0903 (1,50); 7,0877 (1,42); 5,8544 (0,42); 5,8383 (1,42); 5,8218 (1,40); 5,8054 (0,40); 5,3399 (6,46); 3,3747 (0,40); 3,3249 (36,38); 3,3011 (1,86); 3,0722 (16,00); 2,6831 (0,66); 2,6786 (0,87); 2,6741 (0,64); 2,5638 (1,28); 2,5594 (1,69); 2,5547 (1,30); 2,5496 (0,86); 2,5184 (55,80); 2,5140 (109,68); 2,5095 (145,64); 2,5050 (103,32); 2,5006 (48,57); 2,4642 (1,44); 2,4597 (1,70); 2,4554 (1,26); 2,3409 (0,71); 2,3363 (0,91); 2,3319 (0,70); 1,5370 (6,04); 1,5206 (6,03)
Ejemplo 69, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7919 (2,10); 8,0189 (1,20); 7,9983 (1,56); 7,9528 (0,58); 7,8679 (1,28); 7,8488 (1,77); 7,8284 (1,12); 7,7294 (2,04); 7,7268 (2,58); 7,7231 (1,28); 7,7142 (0,80); 7,7091 (3,40); 7,7054 (2,43); 7,5685 (0,48); 7,5565 (0,36); 7,5502 (1,60); 7,5445 (0,48); 7,5351 (0,87); 7,5318 (1,41); 7,5285 (0,71); 7,4997 (2,31); 7,4963 (1,02); 7,4841 (1,67); 7,4805 (3,03); 7,4669 (0,49); 7,4628 (1,21); 7,4596 (0,73); 7,2021 (1,76); 7,1880 (1,10); 7,1831 (2,00); 7,1680 (1,52); 7,1600 (0,34); 7,1457 (1,28); 6,5295 (0,71); 6,5259 (1,12); 6,5220 (1,10); 6,5005 (4,44); 6,4956 (2,89); 6,4894 (0,91); 6,4827 (1,25); 6,4772 (0,71); 5,3853 (5,82); 5,0648 (1,00); 5,0483 (1,01); 3,6978 (16,00); 3,3541 (114,20); 3,3508 (148,75); 3,0722 (0,65); 3,0627 (15,32); 2,8911 (4,53); 2,7326 (3,78); 2,7314 (3,60); 2,5265 (0,69); 2,5217 (1,11); 2,5131 (13,04); 2,5086 (25,87); 2,5040 (33,86); 2,4994 (24,65); 2,4950 (11,81); 1,5207 (5,12); 1,5043 (5,05); -0,0002 (0,57)
Ejemplo 70, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2616 (6,41); 7,8384 (1,50); 7,8176 (3,85); 7,8000 (4,59); 7,7878 (5,39); 7,7694 (2,18); 7,7665 (2,07); 7,7568 (6,17); 7,7388 (7,21); 7,7352 (5,36); 7,5659 (1,06); 7,5538 (0,91); 7,5475 (3,51); 7,5421 (1,20); 7,5294 (3,02); 7,4987 (5,30); 7,4794 (6,77); 7,4617 (2,53); 7,1330 (3,40); 7,1179 (3,22); 5,3776 (13,62); 4,9879 (16,00); 4,1989 (4,31); 4,1823 (9,34); 4,1657 (4,39); 3,3284 (39,57); 2,9114 (2,84); 2,9049 (6,17); 2,8984 (3,00); 2,6755 (0,37); 2,5801 (2,62); 2,5735 (2,75); 2,5635 (5,52); 2,5569 (5,41); 2,5469 (3,10); 2,5403 (3,08); 2,5109 (49,01); 2,5066 (64,28); 2,5023 (46,96); 2,3333 (0,41); 2,3292 (0,32); 2,0798 (9,91)
Ejemplo 71, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5020 (1,86); 8,0726 (1,33); 8,0519 (1,58); 7,8358 (1,32); 7,8165 (1,83); 7,7963 (1,21); 7,7264 (2,09); 7,7240 (2,64); 7,7202 (1,33); 7,7113 (0,82); 7,7062 (3,56); 7,7024 (2,42); 7,5648 (0,49); 7,5530 (0,36); 7,5465 (1,65); 7,5408 (0,50); 7,5315 (0,89); 7,5282 (1,42); 7,5249 (0,73); 7,4977 (2,44); 7,4944 (1,07); 7,4823 (1,68); 7,4786 (3,11); 7,4650 (0,48); 7,4609 (1,22); 7,4577 (0,69); 7,1399 (1,83); 7,1215 (1,78); 5,3540 (6,65); 3,3299 (59,74); 3,0539 (16,00); 2,8909 (2,02); 2,7321 (1,63); 2,5253 (0,57); 2,5120 (10,69); 2,5075 (21,11); 2,5029 (27,62); 2,4983 (20,03); 2,4939 (9,54); 2,4190 (1,06); 2,4001 (3,52); 2,3812 (3,61); 2,3624 (1,15); 1,2828 (0,35); 1,0758 (3,97); 1,0570 (8,37); 1,0381 (3,78); 0,8759 (0,59); 0,8625 (0,34); -0,0002 (5,22)
Ejemplo 72, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,7791 (0,48); 7,9532 (0,41); 7,7367 (0,88); 7,7340 (1,19); 7,7300 (0,60); 7,7216 (0,39); 7,7163 (1,56); 7,7125 (1,10); 7,5449 (0,78); 7,5303 (0,43); 7,5269 (0,70); 7,5234 (0,36); 7,5014 (1,14); 7,4980 (0,51); 7,4864 (0,74); 7,4824 (1,40); 7,4649 (0,56); 7,4613 (0,33); 7,2579 (1,81); 5,2897 (2,57); 3,8663 (3,73); 3,3298 (35,01); 3,0324 (7,32); 2,8910 (3,43); 2,7322 (2,69); 2,7313 (2,64); 2,5204 (0,41); 2,5118 (5,50); 2,5073 (11,12); 2,5027 (14,79); 2,4981 (10,79); 2,4936 (5,19); 0,9301 (16,00); 0,9054 (0,41); 0,7329 (1,03); -0,0002 (5,07)
Ejemplo 73, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5533 (1,12); 10,5076 (0,32); 8,0711 (0,88); 8,0504 (1,04); 7,9531 (0,43); 7,9406 (0,34); 7,9208 (0,49); 7,9007 (0,37); 7,8411 (0,76); 7,8217 (1,10); 7,8016 (0,70); 7,7470 (1,25); 7,7287 (2,00); 7,7252 (2,79); 7,7053 (2,50); 7,7016 (1,79); 7,5750 (0,77); 7,5690 (0,40); 7,5653 (0,45); 7,5596 (0,52); 7,5564 (0,72); 7,5533 (0,61); 7,5470 (1,25); 7,5414 (0,39); 7,5318 (0,75); 7,5287 (1,08); 7,5253 (0,64); 7,5168 (1,12); 7,4977 (3,16); 7,4789 (2,78); 7,4650 (0,42); 7,4610 (0,88); 7,4579 (0,51); 7,1491 (1,03); 7,1312 (0,99); 7,1239 (0,37); 6,9620 (0,80); 6,9433 (1,07); 5,3809 (2,55); 5,3567 (4,46); 3,5688 (1,27); 3,5524 (2,55); 3,5358 (1,37); 3,5214 (0,33); 3,3933 (30,62); 3,0690 (0,47); 3,0549 (16,00); 2,8914 (2,58); 2,7321 (2,19); 2,5635 (1,27); 2,5496 (2,64); 2,5357 (1,55); 2,5260 (1,26); 2,5123 (18,66); 2,5081 (35,20); 2,5036 (45,00); 2,4991 (32,97); 2,4949 (16,23); 2,4520 (0,45); 2,4425 (0,90); 2,4348 (0,42); 2,4240 (1,82); 2,4062 (1,01); 2,3822 (0,49); 2,2189 (0,32); 2,2010 (0,56); 2,1823 (0,33); 1,8432 (0,54); 1,8265 (0,75); 1,8060 (0,75); 1,7894 (0,38); 1,7292 (0,35); 1,7109 (0,76); 1,6927 (0,80); 1,6741 (0,49); 1,5973 (0,42); 1,4284 (0,46); 1,4082 (0,44); 1,2374 (0,33); -0,0002 (2,87)
Ejemplo 74, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7393 (2,83); 7,7213 (3,50); 7,7177 (2,51); 7,5588 (0,53); 7,5468 (0,45); 7,5405 (1,70); 7,5350 (0,56); 7,5253 (0,98); 7,5222 (1,45); 7,4896 (2,51); 7,4703 (3,27); 7,4526 (1,26); 7,4107 (1,21); 7,3925 (1,60); 7,3901 (1,55); 7,3719 (1,34); 7,2932 (0,91); 7,2749 (2,76); 7,2574 (3,45); 7,2413 (4,27); 7,2248 (1,60); 7,2087 (0,81); 7,2049 (0,96); 7,2001 (0,55); 7,1874 (1,45); 7,1810 (0,34); 7,1702 (0,48); 6,6962 (0,65); 6,6824 (1,29); 6,6685 (0,64); 6,5234 (2,00); 6,5057 (1,92); 6,4393 (1,98); 6,4185 (1,92); 5,7637 (2,15); 5,2300 (6,75); 3,4554 (0,83); 3,4394 (1,58); 3,4232 (1,48); 3,4193 (1,57); 3,4044 (0,93); 3,3765 (0,60); 3,3438 (155,57); 3,3200 (0,57); 3,0562 (16,00); 2,8373 (1,71); 2,8181 (2,42); 2,8003 (1,51); 2,5153 (15,94); 2,5113 (31,31); 2,5069 (41,19); 2,5025 (29,46)

Ejemplo 75, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,3671 (0,65); 9,3200 (0,57); 7,9528 (1,31); 7,7467 (2,02); 7,7441 (2,74); 7,7400 (1,43); 7,7346 (0,98); 7,7316 (1,14); 7,7265 (3,57); 7,7227 (2,60); 7,7173 (1,04); 7,7134 (0,72); 7,5699 (0,48); 7,5665 (0,33); 7,5586 (0,40); 7,5515 (1,69); 7,5455 (0,65); 7,5419 (0,57); 7,5369 (1,03); 7,5334 (1,56); 7,5299 (0,88); 7,5238 (0,51); 7,5087 (2,57); 7,5050 (1,31); 7,4938 (1,68); 7,4897 (3,18); 7,4855 (1,48); 7,4819 (1,48); 7,4765 (0,77); 7,4722 (1,44); 7,4683 (1,26); 7,4651 (2,00); 7,4603 (0,88); 7,4465 (2,69); 7,4303 (0,88); 7,4258 (2,30); 7,4199 (0,33); 7,3952 (0,42); 7,3921 (0,59); 7,3732 (0,35); 7,3355 (4,18); 7,3157 (1,19); 7,3131 (0,78); 7,2972 (1,69); 7,2813 (0,46); 7,2787 (0,76); 7,2759 (0,53); 7,2665 (2,44); 7,2636 (3,00); 7,2584 (0,82); 7,2448 (2,40); 7,2427 (1,94); 7,1751 (0,44); 7,1561 (0,46); 7,1534 (0,60); 7,1354 (0,48); 6,9953 (0,75); 6,7583 (0,99); 6,7556 (0,91); 6,7367 (0,95); 6,6282 (0,77); 5,3233 (5,58); 5,1160 (1,48); 3,3335 (41,99); 3,3310 (55,90); 3,0577 (16,00); 3,0481 (4,23); 3,0354 (0,50); 3,0175 (0,44); 2,8901 (10,70); 2,7317 (8,74); 2,7306 (8,34); 2,5247 (0,78); 2,5199 (1,27); 2,5113 (15,49); 2,5068 (30,92); 2,5022 (40,65); 2,4976 (29,35); 2,4931 (13,84); 0,0080 (0,36); -0,0002 (10,76)
Ejemplo 76, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5782 (2,22); 8,0435 (0,84); 8,0229 (1,07); 7,8826 (1,33); 7,8633 (1,84); 7,8431 (1,13); 7,7276 (2,63); 7,7239 (1,28); 7,7149 (0,81); 7,7099 (3,44); 7,7061 (2,40); 7,5676 (0,49); 7,5557 (0,36); 7,5493 (1,65); 7,5436 (0,48); 7,5344 (0,88); 7,5310 (1,42); 7,5277 (0,72); 7,4998 (2,42); 7,4964 (1,03); 7,4843 (1,69); 7,4806 (3,11); 7,4670 (0,49); 7,4629 (1,23); 7,4597 (0,70); 7,2035 (1,81); 7,1853 (1,77); 7,1717 (1,12); 7,1525 (1,64); 7,1320 (1,18); 7,1120 (0,71); 7,1090 (0,60); 6,8792 (0,97); 6,8608 (1,70); 6,8450 (2,09); 6,8260 (1,47); 5,3814 (6,24); 4,8169 (6,31); 3,3473 (125,30); 3,0626 (16,00); 2,8906 (0,86); 2,7322 (0,69); 2,7312 (0,68); 2,5260 (0,56); 2,5126 (11,38); 2,5081 (22,51); 2,5035 (29,43); 2,4989 (21,30); 2,4944 (10,12); 2,2248 (10,54); -0,0002 (0,43)
Ejemplo 77, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5111 (2,02); 8,0678 (1,23); 8,0471 (1,47); 7,8297 (1,26); 7,8105 (1,73); 7,7902 (1,19); 7,7235 (2,59); 7,7197 (1,29); 7,7108 (0,83); 7,7058 (3,52); 7,7020 (2,35); 7,5641 (0,49); 7,5522 (0,37); 7,5458 (1,63); 7,5401 (0,49); 7,5308 (0,87); 7,5275 (1,41); 7,5241 (0,71); 7,4963 (2,41); 7,4928 (1,02); 7,4809 (1,69); 7,4771 (3,07); 7,4635 (0,49); 7,4594 (1,23); 7,4562 (0,68); 7,1387 (1,76); 7,1211 (1,70); 5,3535 (6,08); 3,3290 (52,17); 3,0676 (0,35); 3,0535 (16,00); 2,8908 (2,53); 2,7322 (1,96); 2,7312 (1,99); 2,5252 (0,56); 2,5204 (0,95); 2,5119 (11,27); 2,5074 (22,37); 2,5028 (29,46); 2,4982 (21,31); 2,4937 (10,07); 2,4097 (1,50); 2,3910 (2,25); 2,3714 (1,63); 1,7077 (0,95); 1,6732 (1,93); 1,6378 (1,20); 1,6145 (0,63); 1,6107 (0,63); 1,5899 (0,46); 1,4985 (0,80); 1,4809 (1,64); 1,4611 (1,74); 1,4434 (0,86); 1,2341 (0,51); 1,2233 (0,48); 1,2146 (0,45); 1,1968 (0,93); 1,1923 (0,95); 1,1863 (1,02); 1,1685 (1,50); 1,1621 (1,26); 1,1507 (0,86); 1,1400 (1,27); 1,1205 (0,60); 1,1137 (0,38); 0,9076 (0,44); 0,8938 (0,47); 0,8760 (1,38); 0,8621 (0,67); 0,8563 (0,94); 0,8498 (0,93); -0,0002 (5,59)
Ejemplo 78, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4942 (2,05); 8,0673 (1,38); 8,0466 (1,63); 7,9534 (0,69); 7,8251 (1,26); 7,8060 (1,85); 7,7856 (1,16); 7,7236 (2,98); 7,7108 (0,93); 7,7058 (3,91); 7,7021 (2,73); 7,5641 (0,55); 7,5610 (0,37); 7,5522 (0,41); 7,5458 (1,87); 7,5401 (0,57); 7,5308 (1,00); 7,5276 (1,62); 7,5243 (0,85); 7,4963 (2,80); 7,4808 (1,93); 7,4772 (3,56); 7,4635 (0,56); 7,4595 (1,39); 7,4563 (0,81); 7,1383 (1,91); 7,1198 (1,86); 5,3545 (7,06); 4,0446 (0,41); 4,0268 (0,42); 3,3291 (63,21); 3,0565 (16,00); 2,8909 (5,44); 2,7321 (4,37); 2,5252 (0,65); 2,5118 (13,63); 2,5074 (27,22); 2,5028 (36,02); 2,4982 (26,50); 2,4938 (12,92); 2,4656 (0,42); 2,4441 (0,48); 2,4299 (1,12); 2,4083 (1,54); 2,4021 (1,39); 2,3846 (1,43); 2,3664 (0,40); 2,3489 (0,50); 2,2552 (0,38); 2,2358 (0,52); 2,2202 (0,49); 2,2126 (0,37); 2,2012 (0,37); 2,1318 (1,14); 2,1213 (0,74); 2,0934 (1,22); 1,7405 (0,35); 1,7367 (0,33); 1,7184 (0,45); 1,7107 (0,59); 1,7000 (0,47); 1,5393 (0,53); 1,5318 (0,37); 1,5098 (0,52); 1,4804 (0,38); 1,4703 (0,61); 1,4617 (0,61); 1,4507 (0,55); 1,4409 (0,62); 1,4326 (0,49); 1,4228 (0,38); 1,3350 (0,96); 1,3115 (1,45); 1,2982 (0,81); 1,2832 (0,78); 1,2688 (0,42); 1,2440 (1,23); 1,2395 (1,35); 1,2213 (0,71); 1,2164 (0,71); 1,1836 (0,54); 1,1658 (1,05); 1,1552 (0,39); 1,1481 (0,89); 1,1393 (0,39); 1,1327 (0,48); 1,1279 (0,63); 1,1221 (0,62); 1,1165 (0,62); 1,1108 (0,44); 1,1052 (0,40); 1,0928 (0,35); 0,8757 (0,62); 0,8625 (0,38); 0,8570 (0,33); 0,7119 (0,48); 0,7064 (0,52); 0,6989 (0,51); 0,6930 (0,49); 0,6817 (0,47); 0,6762 (0,49); 0,6686 (0,50); 0,6632 (0,46); -0,0002 (7,35)
Ejemplo 79, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2078 (2,01); 7,9530 (0,61); 7,8012 (0,70); 7,7805 (1,26); 7,7618 (1,18); 7,7227 (1,62); 7,7201 (2,12); 7,7163 (1,14); 7,7078 (1,92); 7,7024 (2,89); 7,6987 (2,01); 7,6880 (0,87); 7,5628 (0,39); 7,5445 (1,30); 7,5388 (0,40); 7,5295 (0,70); 7,5262 (1,13); 7,5228 (0,59); 7,4948 (1,93); 7,4914 (0,85); 7,4794 (1,37); 7,4756 (2,55); 7,4687 (1,72); 7,4653 (2,07); 7,4581 (1,24); 7,4546 (0,83); 7,4472 (2,45); 7,4445 (2,34); 7,4222 (0,36); 7,4195 (0,34); 7,3465 (0,38); 7,3371 (1,38); 7,3322 (0,53); 7,3186 (2,37); 7,3025 (0,63); 7,2985 (1,45); 7,2396 (0,46); 7,2227 (0,96); 7,2199 (1,41); 7,2101 (0,50); 7,2062 (0,54); 7,2018 (1,33); 7,1865 (0,34); 7,1836 (0,50); 7,0898 (1,35); 7,0730 (1,30); 5,3272 (4,75); 4,2948 (1,05); 4,1307 (5,89); 3,3440 (106,63); 3,0502 (12,46); 2,8907 (4,85); 2,7324 (3,83); 2,7313 (3,90); 2,5259 (0,53); 2,5211 (0,86); 2,5125 (9,60); 2,5080 (19,06); 2,5034 (25,11); 2,4988 (18,33); 2,4943 (8,79); 1,3430 (16,00); -0,0002 (1,31)
Ejemplo 80, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5113 (0,77); 7,9531 (0,80); 7,7377 (2,09); 7,7352 (2,72); 7,7312 (1,30); 7,7226 (0,85); 7,7175 (3,57); 7,7137 (2,43); 7,5656 (0,50); 7,5624 (0,32); 7,5541 (0,35); 7,5473 (1,72); 7,5414 (0,51); 7,5325 (0,95); 7,5291 (1,52); 7,5257 (0,76); 7,5024 (2,53); 7,4990 (1,07); 7,4873 (1,70); 7,4834 (3,18); 7,4699 (0,50); 7,4658 (1,27); 7,4624 (0,71); 7,3294 (4,53); 7,1646 (1,08); 7,1446 (2,02); 7,1241 (1,01); 6,7642 (1,30); 6,7463 (3,02); 6,6956 (1,00); 6,6895 (0,82); 6,6756 (0,78); 6,6719 (0,87); 5,3366 (5,85); 5,0461 (0,39); 5,0297 (1,47); 5,0131 (1,48); 4,9966 (0,40); 3,3407 (71,31); 3,0279 (0,40); 3,0092 (16,00); 2,8906 (6,59); 2,7323 (5,26); 2,7314 (5,08); 2,5259 (0,50); 2,5211 (0,81); 2,5125 (9,65); 2,5080 (19,21); 2,5034 (25,24); 2,4988 (18,23); 2,4943 (8,61); 2,2409 (9,78); 1,5310 (5,59); 1,5145 (5,54); -0,0002 (2,73)
Ejemplo 81, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,7334 (2,08); 7,9525 (1,68); 7,7397 (4,10); 7,7214 (5,10); 7,7179 (2,82); 7,6092 (1,18); 7,6045 (1,36); 7,5907 (1,65); 7,5860 (1,81); 7,5651 (0,49); 7,5620 (0,33); 7,5537 (0,36); 7,5467 (1,75); 7,5410 (0,52); 7,5320 (1,00); 7,5287 (1,59); 7,5251 (0,93); 7,5225 (0,87); 7,5192 (0,87); 7,5036 (4,33); 7,5007 (2,84); 7,4847 (4,20); 7,4756 (1,50); 7,4706 (1,79); 7,4669 (1,44); 7,4634 (0,85); 7,4563 (1,45); 7,4515 (1,42); 7,4373 (0,58); 7,4327 (0,51); 7,3982 (4,18); 5,3621 (6,32); 3,3383 (108,95); 3,0483 (16,00); 2,8905 (13,02); 2,7314 (10,70); 2,5250 (0,66); 2,5116 (14,14); 2,5072 (28,01); 2,5026 (36,80); 2,4981 (26,89); 2,4937 (13,03); -0,0002 (4,70)

Ejemplo 82, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5092 (1,00); 7,9529 (0,89); 7,7422 (0,32); 7,7365 (2,08); 7,7339 (2,67); 7,7299 (1,25); 7,7213 (0,83); 7,7162 (3,53); 7,7124 (2,38); 7,5655 (0,50); 7,5539 (0,35); 7,5472 (1,71); 7,5413 (0,49); 7,5324 (0,93); 7,5290 (1,52); 7,5255 (0,75); 7,5022 (2,50); 7,4988 (1,04); 7,4870 (1,67); 7,4831 (3,13); 7,4697 (0,49); 7,4656 (1,25); 7,4622 (0,77); 7,3383 (0,36); 7,3292 (4,54); 7,1636 (1,03); 7,1470 (1,10); 7,1452 (1,14); 7,1101 (0,49); 7,1069 (0,46); 7,0909 (1,05); 7,0711 (0,65); 7,0679 (0,57); 6,8576 (0,91); 6,8392 (1,54); 6,8224 (0,69); 6,8206 (0,68); 6,7567 (1,53); 6,7365 (1,38); 5,3340 (5,73); 5,0373 (0,38); 5,0208 (1,39); 5,0042 (1,40); 4,9877 (0,38); 3,3396 (95,93); 3,0194 (1,06); 3,0102 (16,00); 2,8904 (7,42); 2,7321 (5,68); 2,7311 (5,88); 2,5256 (0,51); 2,5208 (0,80); 2,5123 (10,61); 2,5077 (21,37); 2,5031 (28,27); 2,4985 (20,41); 2,4940 (9,65); 2,2170 (9,94); 1,5659 (5,54); 1,5494 (5,60); 1,5299 (0,37); -0,0002 (3,61)
Ejemplo 83, Disolvente: DMSO, Espectrómetro: 400,13 MHz
8,0123 (2,60); 7,6632 (3,98); 7,6419 (5,53); 7,6155 (0,94); 7,5975 (1,97); 7,5808 (1,80); 7,5641 (0,72); 7,4461 (3,86); 7,4264 (2,24); 6,5748 (2,81); 6,5571 (2,64); 6,4532 (2,79); 6,4325 (2,61); 6,0832 (6,83); 5,2576 (9,84); 3,4172 (4,30); 3,1433 (16,00); 2,9496 (10,68); 2,7900 (10,04); 2,7305 (0,36); 2,5619 (55,79); 2,3883 (0,36); 1,4182 (0,70); -0,0002 (1,16)
Ejemplo 84, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5205 (1,96); 8,0698 (1,18); 8,0491 (1,40); 7,8298 (1,23); 7,8106 (1,67); 7,7903 (1,16); 7,7320 (0,32); 7,7265 (1,94); 7,7237 (2,55); 7,7198 (1,30); 7,7111 (0,83); 7,7060 (3,53); 7,7022 (2,37); 7,5641 (0,48); 7,5522 (0,36); 7,5458 (1,59); 7,5401 (0,50); 7,5309 (0,86); 7,5275 (1,41); 7,5241 (0,73); 7,4964 (2,39); 7,4930 (1,04); 7,4811 (1,64); 7,4773 (3,02); 7,4637 (0,50); 7,4596 (1,23); 7,4564 (0,69); 7,1387 (1,71); 7,1215 (1,64); 7,1201 (1,60); 5,3539 (5,96); 3,3295 (63,55); 3,0540 (16,00); 2,8911 (1,73); 2,7326 (1,37); 2,7313 (1,38); 2,5254 (0,58); 2,5206 (1,00); 2,5121 (11,09); 2,5076 (21,82); 2,5030 (28,61); 2,4984 (20,72); 2,4938 (9,82); 2,4106 (1,56); 2,3920 (2,27); 2,3727 (1,71); 1,7602 (0,38); 1,7429 (1,06); 1,7268 (1,48); 1,7123 (0,94); 1,6995 (0,67); 1,6087 (0,84); 1,5897 (1,60); 1,5716 (1,96); 1,5552 (1,24); 1,5403 (0,52); 1,5373 (0,49); 1,5268 (0,32); 1,5126 (0,39); 1,5082 (0,35); 1,4948 (0,49); 1,4855 (0,79); 1,4752 (0,81); 1,4693 (0,89); 1,4563 (0,79); 1,1065 (0,55); 1,0957 (0,72); 1,0904 (0,83); 1,0802 (0,69); 1,0756 (0,62); 1,0715 (0,62); 1,0645 (0,46); 1,0601 (0,44); 0,8759 (0,52); -0,0002 (5,65)
Ejemplo 85, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,0121 (2,29); 8,0825 (1,39); 8,0623 (1,78); 7,9530 (0,86); 7,9149 (1,28); 7,8955 (1,81); 7,8754 (1,10); 7,7325 (1,98); 7,7299 (2,61); 7,7260 (1,30); 7,7173 (0,84); 7,7121 (3,46); 7,7084 (2,42); 7,5666 (0,49); 7,5548 (0,37); 7,5483 (1,62); 7,5426 (0,50); 7,5334 (0,90); 7,5301 (1,44); 7,5267 (0,74); 7,4995 (2,40); 7,4961 (1,07); 7,4841 (1,68); 7,4804 (3,07); 7,4668 (0,51); 7,4627 (1,24); 7,4595 (0,71); 7,2181 (2,13); 7,2133 (1,27); 7,2066 (5,37); 7,1988 (5,01); 7,1838 (0,85); 7,1134 (0,82); 7,1057 (1,05); 7,0976 (0,61); 5,3889 (6,09); 4,9691 (0,85); 4,9313 (2,12); 4,8885 (1,60); 4,8510 (0,61); 4,4782 (0,93); 4,4658 (0,97); 4,4538 (1,23); 4,4414 (0,98); 3,3302 (71,52); 3,0854 (16,00); 3,0122 (1,27); 3,0018 (1,83); 2,9796 (0,89); 2,8902 (6,85); 2,7318 (5,35); 2,7306 (5,48); 2,5247 (0,62); 2,5114 (12,73); 2,5069 (24,95); 2,5023 (32,61); 2,4977 (23,73); 2,4931 (11,41); -0,0002 (7,97)
Ejemplo 86, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2690 (7,09); 7,8414 (1,60); 7,8205 (4,46); 7,8032 (6,02); 7,7948 (6,83); 7,7768 (2,26); 7,6902 (7,09); 7,6722 (8,47); 7,6689 (6,85); 7,5582 (1,32); 7,5397 (4,13); 7,5218 (3,81); 7,4939 (6,61); 7,4746 (8,02); 7,4570 (3,23); 7,1412 (3,95); 7,1262 (3,78); 5,7626 (3,63); 5,3377 (16,00); 4,5315 (10,49); 4,5254 (10,88); 4,1988 (4,94); 4,1822 (10,57); 4,1655 (5,47); 4,1490 (0,77); 4,1330 (0,45); 4,0599 (0,34); 4,0422 (0,91); 4,0245 (0,91); 4,0068 (0,35); 3,3316 (33,70); 3,3251 (9,43); 3,3189 (4,52); 3,3080 (2,35); 2,9128 (3,20); 2,9063 (6,74); 2,8998 (3,70); 2,5808 (3,27); 2,5743 (3,63); 2,5643 (6,78); 2,5577 (6,87); 2,5476 (4,16); 2,5412 (3,91); 2,5106 (37,18); 2,5066 (48,53); 2,5026 (37,67); 2,3334 (0,40); 2,0789 (0,68); 1,9937 (3,66); 1,2820 (0,55); 1,2484 (2,52); 1,1966 (1,09); 1,1788 (1,97); 1,1610 (1,03); 0,8782 (1,00); 0,8620 (2,64); 0,8443 (1,22)
Ejemplo 87, Disolvente: DMSO, Espectrómetro: 300,16 MHz
7,9539 (0,50); 7,5448 (0,60); 7,4309 (0,48); 7,4056 (0,47); 7,3921 (0,55); 7,3742 (0,93); 7,3647 (0,87); 5,4238 (1,47); 3,3516 (3,48); 3,0694 (2,92); 2,5216 (16,27); 2,3428 (2,48); 1,3706 (16,00)
Ejemplo 88, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,7366 (1,91); 8,0323 (1,09); 8,0117 (1,32); 7,8379 (1,13); 7,8187 (1,56); 7,7984 (0,97); 7,7256 (2,28); 7,7127 (0,82); 7,7078 (2,91); 7,7040 (2,01); 7,5763 (0,43); 7,5645 (0,38); 7,5580 (1,42); 7,5524 (0,46); 7,5431 (0,83); 7,5399 (1,24); 7,5365 (0,65); 7,5103 (2,11); 7,4948 (1,51); 7,4911 (2,61); 7,4775 (0,45); 7,4735 (1,03); 7,4703 (0,58); 7,2722 (2,79); 7,2506 (3,04); 7,2434 (0,33); 7,1816 (0,54); 7,1599 (0,69); 7,1503 (1,63); 7,1319 (1,52); 6,8979 (0,52); 6,8908 (3,59); 6,8850 (1,46); 6,8740 (1,17); 6,8690 (3,18); 6,8620 (0,83); 5,3765 (5,28); 3,7503 (0,42); 3,7340 (3,41); 3,7251 (16,00); 3,6786 (0,33); 3,6353 (4,80); 3,4953 (0,76); 3,4848 (1,42); 3,4773 (2,39); 3,4591 (2,36); 3,4409 (0,74); 3,3414 (19,01); 2,6785 (0,33); 2,5640 (0,56); 2,5595 (0,75); 2,5551 (0,58); 2,5318 (1,59); 2,5183 (20,91); 2,5140 (41,52); 2,5095 (55,24); 2,5051 (39,23); 2,5007 (18,19); 2,4641 (0,47); 2,4597 (0,60); 2,4554 (0,44); 2,3364 (0,33); 1,9968 (0,89); 1,2524 (0,59); 1,1813 (0,48); 1,0367 (2,67); 1,0186 (5,93); 1,0004 (2,55); 0,8649 (0,80); 0,8473 (0,32)
Ejemplo 89, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2546 (2,49); 8,1091 (0,37); 7,9531 (1,07); 7,8233 (0,70); 7,8024 (1,78); 7,7852 (2,22); 7,7778 (2,06); 7,7747 (2,28); 7,7570 (0,76); 7,7538 (0,54); 7,7225 (2,91); 7,7046 (3,72); 7,7009 (2,61); 7,6824 (0,43); 7,6644 (0,50); 7,6610 (0,39); 7,5692 (0,33); 7,5667 (0,35); 7,5633 (0,53); 7,5603 (0,37); 7,5514 (0,45); 7,5451 (1,74); 7,5395 (0,75); 7,5302 (1,15); 7,5268 (1,59); 7,5234 (0,89); 7,4961 (2,82); 7,4807 (1,96); 7,4770 (3,62); 7,4632 (0,87); 7,4593 (1,49); 7,4562 (0,94); 7,4517 (0,47); 7,4450 (0,50); 7,4401 (0,61); 7,4284 (0,62); 7,4243 (0,52); 7,3657 (1,64); 7,3607 (0,72); 7,3516 (1,85); 7,3441 (2,09); 7,3380 (0,87); 7,3357 (0,89); 7,3301 (1,87); 7,3219 (0,33); 7,3171 (0,61); 7,2944 (0,33); 7,2244 (1,73); 7,2224 (1,71); 7,2072 (3,30); 7,1431 (2,14); 7,1378 (0,69); 7,1266 (0,83); 7,1207 (3,52); 7,1149 (0,82); 7,1044 (1,90); 7,1019 (2,00); 7,0987 (2,07); 7,0881 (1,49); 7,0848 (1,40); 6,9748 (0,38); 6,0034 (0,44); 5,5348 (0,89); 5,3320 (6,39); 5,1790 (1,02); 4,2843 (1,67); 4,2674 (3,78); 4,2505 (1,72); 3,6701 (0,33); 3,3415 (169,96); 3,0881 (2,44); 3,0723 (0,52); 3,0617 (16,00); 3,0364 (2,41); 2,9409 (1,41); 2,9240 (2,85); 2,9071 (1,38); 2,8909 (8,40); 2,7322 (6,73); 2,7317 (6,68); 2,5258 (1,02); 2,5124 (18,10); 2,5080 (35,40); 2,5034 (46,36); 2,4988 (33,81); 2,4944 (16,26); -0,0002 (2,58)

Ejemplo 90, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6966 (2,41); 7,6942 (4,34); 7,6916 (2,60); 7,6774 (3,33); 7,6761 (3,88); 7,6741 (3,72); 7,6224 (0,97); 7,6127 (8,36); 7,6101 (8,68); 7,6038 (6,46); 7,6025 (6,04); 7,5997 (5,69); 7,5960 (4,19); 7,5795 (0,81); 7,5759 (0,77); 7,5413 (0,58); 7,5300 (2,94); 7,5213 (2,60); 7,5168 (2,10); 7,5108 (2,69); 7,5082 (2,22); 7,5032 (2,14); 7,4968 (1,80); 7,4891 (1,58); 7,0336 (8,70); 6,6786 (8,90); 5,1662 (16,00); 4,0604 (0,42); 4,0426 (1,32); 4,0248 (1,35); 4,0070 (0,45); 3,4210 (0,35); 3,4000 (3,06); 3,3501 (236,52); 3,3278 (0,65); 3,3185 (0,35); 3,3154 (0,41); 3,3003 (2,76); 3,2516 (40,94); 3,2018 (0,44); 2,5626 (0,41); 2,5580 (0,56); 2,5535 (0,41); 2,5307 (0,71); 2,5172 (16,79); 2,5128 (34,61); 2,5082 (46,67); 2,5037 (32,85); 2,4993 (15,06); 2,4629 (0,40); 2,4584 (0,51); 2,4538 (0,37); 1,9946 (5,99); 1,2471 (0,47); 1,1970 (1,65); 1,1792 (3,31); 1,1614 (1,60); 0,8625 (0,70)
Ejemplo 91, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,9263 (2,25); 7,9528 (0,84); 7,7470 (1,98); 7,7442 (2,67); 7,7402 (1,31); 7,7318 (0,82); 7,7266 (3,45); 7,7228 (2,38); 7,6999 (1,37); 7,6955 (1,49); 7,6808 (1,52); 7,6764 (1,52); 7,5858 (0,78); 7,5813 (0,74); 7,5669 (1,36); 7,5647 (1,39); 7,5631 (1,41); 7,5604 (1,04); 7,5551 (0,42); 7,5472 (2,01); 7,5419 (1,33); 7,5334 (0,95); 7,5300 (1,53); 7,5264 (0,77); 7,5053 (2,50); 7,5019 (1,09); 7,4904 (1,59); 7,4864 (3,01); 7,4730 (0,50); 7,4689 (1,21); 7,4653 (0,70); 7,3504 (3,93); 7,2191 (1,82); 7,1988 (1,59); 7,1073 (1,02); 7,1053 (1,01); 7,0885 (1,78); 7,0866 (1,75); 7,0699 (0,91); 7,0678 (0,86); 5,3579 (5,97); 3,9100 (14,72); 3,3360 (72,19); 3,0555 (16,00); 2,8905 (6,69); 2,7320 (5,33); 2,7309 (5,35); 2,5251 (0,65); 2,5118 (11,62); 2,5073 (22,88); 2,5027 (29,89); 2,4981 (21,65); 2,4936 (10,27); -0,0002 (9,23)
Ejemplo 92, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3314 (3,16); 7,8494 (0,63); 7,8284 (1,98); 7,8112 (3,98); 7,8062 (2,83); 7,7892 (0,73); 7,7853 (0,41); 7,6247 (0,70); 7,6206 (1,05); 7,6150 (0,98); 7,6063 (1,23); 7,6030 (0,98); 7,5999 (1,03); 7,5953 (1,27); 7,5893 (2,51); 7,5869 (2,39); 7,5637 (0,78); 7,5496 (0,87); 7,5435 (1,19); 7,5292 (1,23); 7,5240 (0,64); 7,5086 (0,55); 7,4328 (0,54); 7,4301 (0,60); 7,4266 (0,54); 7,4238 (0,52); 7,4090 (0,99); 7,4052 (0,87); 7,3905 (0,44); 7,3880 (0,46); 7,3847 (0,42); 7,3820 (0,37); 7,1326 (1,47); 7,1288 (1,52); 7,1160 (1,40); 7,1122 (1,42); 5,7683 (0,62); 5,3615 (6,85); 4,1962 (2,13); 4,1796 (4,68); 4,1629 (2,17); 4,0438 (0,65); 4,0260 (0,66); 3,3444 (20,58); 3,0699 (16,00); 2,9229 (1,35); 2,9163 (3,03); 2,9097 (1,45); 2,5802 (1,26); 2,5736 (1,32); 2,5636 (2,87); 2,5569 (2,77); 2,5469 (1,34); 2,5403 (1,23); 2,5324 (0,51); 2,5186 (9,20); 2,5144 (18,80); 2,5100 (25,43); 2,5056 (18,47); 2,5015 (8,79); 1,9966 (2,83); 1,2490 (0,63); 1,1986 (0,76); 1,1808 (1,48); 1,1630 (0,73); 0,8634 (0,82); 0,8457 (0,34)
Ejemplo 93, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5108 (2,23); 10,0297 (1,39); 8,0760 (1,54); 8,0726 (1,57); 8,0555 (1,80); 8,0520 (1,84); 7,8852 (0,85); 7,8659 (1,30); 7,8457 (0,79); 7,8327 (1,32); 7,8133 (1,96); 7,7931 (1,20); 7,7256 (4,21); 7,7061 (4,91); 7,5645 (0,80); 7,5525 (0,63); 7,5462 (2,74); 7,5407 (0,82); 7,5309 (1,63); 7,5279 (2,33); 7,4966 (4,18); 7,4774 (5,31); 7,4597 (2,05); 7,4569 (1,23); 7,1990 (1,27); 7,1804 (1,23); 7,1416 (1,99); 7,1231 (1,92); 5,8216 (0,60); 5,8128 (0,33); 5,8049 (0,32); 5,7959 (0,91); 5,7789 (0,95); 5,7699 (0,37); 5,7621 (0,36); 5,7532 (0,70); 5,7366 (0,34); 5,3750 (4,48); 5,3540 (6,90); 5,0233 (0,51); 5,0195 (1,08); 5,0144 (1,14); 5,0105 (0,53); 4,9804 (0,45); 4,9766 (0,98); 4,9715 (1,03); 4,9677 (0,47); 4,9429 (1,15); 4,9402 (1,08); 4,9375 (1,00); 4,9175 (1,09); 4,9148 (1,01); 4,9121 (0,92); 4,1059 (1,06); 4,0893 (1,08); 3,4632 (0,38); 3,4566 (0,62); 3,4405 (1,75); 3,4246 (1,73); 3,4086 (0,64); 3,4019 (0,38); 3,3284 (64,05); 3,0753 (10,22); 3,0534 (16,00); 2,5253 (0,98); 2,5074 (35,87); 2,5029 (46,20); 2,4984 (34,05); 2,4942 (16,81); 2,3945 (1,65); 2,3761 (3,21); 2,3576 (1,79); 2,3297 (0,32); 2,0393 (0,63); 2,0222 (1,78); 2,0045 (1,81); 1,9867 (0,75); 1,6131 (0,41); 1,5945 (1,23); 1,5762 (1,75); 1,5577 (1,35); 1,5335 (0,84); 1,5166 (1,10); 1,5129 (1,05); 1,4956 (1,16); 1,4793 (0,48); 1,3849 (0,99); 1,3664 (2,14); 1,3477 (2,36); 1,3283 (1,70); 1,3168 (0,85); 1,3087 (1,55); 1,3014 (5,27); 1,2847 (5,18); 1,2697 (0,68); 1,2604 (0,72); 1,2347 (0,38); 0,8946 (2,74); 0,8763 (5,43); 0,8578 (2,34); 0,0078 (0,42); -0,0002 (11,40); -0,0085 (0,43)
Ejemplo 94, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,7653 (1,93); 8,0534 (1,29); 8,0329 (1,62); 7,8853 (1,31); 7,8659 (1,82); 7,8458 (1,13); 7,7271 (1,94); 7,7246 (2,52); 7,7207 (1,20); 7,7119 (0,79); 7,7068 (3,39); 7,7031 (2,32); 7,5641 (0,48); 7,5522 (0,35); 7,5458 (1,61); 7,5401 (0,46); 7,5308 (0,87); 7,5275 (1,39); 7,5241 (0,69); 7,4959 (2,35); 7,4925 (0,98); 7,4805 (1,64); 7,4767 (3,03); 7,4631 (0,48); 7,4591 (1,22); 7,4559 (0,66); 7,1944 (1,76); 7,1768 (1,65); 5,3740 (6,25); 4,0556 (8,70); 4,0391 (0,58); 4,0319 (0,73); 4,0266 (0,75); 4,0184 (0,75); 4,0140 (0,39); 3,3331 (71,93); 3,0795 (16,00); 3,0692 (0,50); 2,8909 (1,03); 2,7322 (0,81); 2,7313 (0,79); 2,5254 (0,57); 2,5206 (0,88); 2,5120 (11,07); 2,5075 (22,26); 2,5029 (29,43); 2,4983 (21,27); 2,4938 (10,06); 1,7085 (0,41); 1,7041 (0,47); 1,6908 (0,93); 1,6879 (0,97); 1,6729 (2,08); 1,6681 (2,39); 1,6626 (2,83); 1,6573 (2,42); 1,6548 (2,60); 1,6476 (1,03); 1,6424 (1,58); 1,6392 (1,47); 1,6234 (0,49); 1,6189 (0,46); 1,6146 (0,51); 1,5263 (0,33); 1,5183 (0,46); 1,5141 (0,64); 1,5071 (0,69); 1,5025 (0,98); 1,4995 (0,95); 1,4963 (1,01); 1,4922 (0,82); 1,4862 (0,71); 1,4767 (0,39); -0,0002 (2,96)
Ejemplo 95, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5088 (2,07); 8,0749 (1,25); 8,0542 (1,48); 7,8323 (1,25); 7,8130 (1,74); 7,7928 (1,14); 7,7239 (2,57); 7,7201 (1,24); 7,7112 (0,85); 7,7061 (3,36); 7,7023 (2,31); 7,5642 (0,48); 7,5522 (0,37); 7,5458 (1,62); 7,5402 (0,47); 7,5309 (0,88); 7,5276 (1,39); 7,5243 (0,71); 7,4965 (2,37); 7,4811 (1,66); 7,4773 (3,03); 7,4637 (0,48); 7,4597 (1,19); 7,4565 (0,67); 7,1409 (1,78); 7,1231 (1,70); 5,3541 (6,16); 3,3284 (55,96); 3,0536 (15,38); 2,8909 (1,12); 2,7321 (0,88); 2,5252 (0,53); 2,5119 (10,97); 2,5074 (21,54); 2,5028 (28,23); 2,4982 (20,56); 2,4937 (9,88); 2,3775 (1,53); 2,3590 (3,07); 2,3404 (1,72); 1,6080 (0,40); 1,5890 (1,07); 1,5805 (0,58); 1,5758 (0,80); 1,5697 (1,41); 1,5627 (1,07); 1,5483 (1,36); 1,5302 (1,36); 1,5133 (0,85); 1,4966 (0,45); 1,1911 (1,03); 1,1740 (1,43); 1,1651 (0,81); 1,1615 (0,76); 1,1516 (1,48); 1,1344 (0,79); 0,8644 (16,00); 0,8478 (15,28); -0,0002 (7,59)
Ejemplo 96, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6611 (6,58); 7,6574 (3,58); 7,6487 (2,26); 7,6436 (8,50); 7,6397 (6,42); 7,5529 (0,65); 7,5497 (1,18); 7,5465 (0,85); 7,5386 (0,99); 7,5314 (4,08); 7,5255 (1,43); 7,5169 (2,49); 7,5134 (3,82); 7,5100 (2,13); 7,4900 (8,69); 7,4701 (11,84); 7,4567 (1,82); 7,4520 (5,86); 6,5825 (4,46); 6,5648 (4,35); 6,4667 (4,64); 6,4462 (4,56); 6,4157 (0,33); 6,3951 (0,36); 6,3121 (0,68); 6,2256 (0,38); 5,7692 (0,38); 5,6971 (0,37); 5,6829 (0,39); 5,6382 (0,40); 5,6223 (0,40); 5,6026 (0,40); 5,2839 (0,36); 5,2331 (16,00); 5,1823 (0,33); 2,5661 (0,42); 2,5616 (0,63); 2,5571 (0,53); 2,5329 (0,85); 2,5193 (16,27); 2,5150 (34,12); 2,5105 (47,07); 2,5061 (35,41); 2,5019 (18,34); 2,4691 (0,91); 2,4642 (0,97); 2,4597 (1,00);

2,4553 (0,80)
Ejemplo 97, Disolvente: DMSO, Espectrómetro: 300,16 MHz
9,8567 (1,13); 7,7858 (0,94); 7,7766 (1,05); 7,7674 (2,28); 7,7308 (0,34); 7,7111 (0,55); 7,7051 (0,65); 7,6844 (0,35); 7,6792 (0,36); 7,6382 (0,36); 7,6187 (0,34); 7,6103 (0,41); 7,4006 (0,41); 7,3713 (0,80); 7,3655 (0,59); 7,3479 (0,81); 7,3454 (0,75); 7,3377 (0,45); 7,3230 (0,42); 7,3195 (0,34); 7,0981 (0,54); 7,0887 (0,56); 7,0799 (0,48); 7,0706 (0,54); 5,3503 (2,73); 3,3348 (10,70); 3,3146 (0,49); 3,1887 (6,24); 2,5158 (0,74); 2,5099 (1,54); 2,5039 (2,08); 2,4978 (1,52); 2,4920 (0,74); 1,9905 (1,26); 1,4664 (16,00); 1,1988 (0,34); 1,1751 (0,68); 1,1514 (0,33); -0,0002 (0,54)
Ejemplo 98, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5038 (2,10); 8,0709 (1,23); 8,0503 (1,45); 7,8312 (1,27); 7,8120 (1,74); 7,7917 (1,18); 7,7261 (2,01); 7,7234 (2,66); 7,7196 (1,34); 7,7108 (0,89); 7,7057 (3,61); 7,7020 (2,40); 7,5639 (0,50); 7,5607 (0,33); 7,5520 (0,39); 7,5456 (1,63); 7,5399 (0,52); 7,5307 (0,91); 7,5273 (1,45); 7,5239 (0,75); 7,4961 (2,47); 7,4927 (1,08); 7,4807 (1,74); 7,4770 (3,12); 7,4634 (0,53); 7,4593 (1,25); 7,4561 (0,71); 7,1393 (1,77); 7,1219 (1,68); 5,3532 (6,11); 3,3286 (57,15); 3,0536 (16,00); 2,5253 (0,63); 2,5120 (11,46); 2,5075 (22,17); 2,5029 (28,83); 2,4983 (20,85); 2,4938 (9,87); 2,3890 (1,45); 2,3706 (2,77); 2,3521 (1,59); 1,5794 (0,74); 1,5621 (1,09); 1,5449 (0,76); 1,2650 (4,90); 1,2575 (5,11); 1,2428 (4,42); 0,8756 (0,62); 0,8637 (1,94); 0,8472 (5,84); 0,8296 (2,02); -0,0002 (6,05)
Ejemplo 99, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5108 (1,12); 10,0299 (2,22); 8,0771 (1,86); 8,0568 (2,26); 7,8852 (1,36); 7,8659 (2,03); 7,8457 (1,21); 7,8326 (0,68); 7,8133 (0,98); 7,7931 (0,61); 7,7259 (3,97); 7,7077 (4,53); 7,5647 (0,75); 7,5617 (0,49); 7,5526 (0,59); 7,5464 (2,53); 7,5409 (0,76); 7,5311 (1,47); 7,5281 (2,12); 7,5250 (1,11); 7,4966 (3,81); 7,4773 (4,87); 7,4634 (0,84); 7,4596 (1,86); 7,4566 (1,09); 7,1990 (1,99); 7,1805 (1,92); 7,1416 (1,01); 7,1230 (0,96); 5,7960 (0,46); 5,7790 (0,48); 5,7532 (0,35); 5,3750 (6,93); 5,3540 (3,50); 5,0195 (0,55); 5,0144 (0,57); 4,9767 (0,49); 4,9714 (0,51); 4,9429 (0,57); 4,9402 (0,53); 4,9376 (0,48); 4,9175 (0,55); 4,9148 (0,50); 4,9120 (0,45); 4,1225 (0,47); 4,1059 (1,68); 4,0893 (1,70); 4,0727 (0,47); 3,4633 (0,61); 3,4566 (0,98); 3,4405 (2,76); 3,4247 (2,72); 3,4087 (1,00); 3,4019 (0,63); 3,3280 (60,97); 3,0752 (16,00); 3,0533 (8,12); 2,5117 (17,95); 2,5074 (33,96); 2,5029 (43,62); 2,4984 (31,88); 2,4941 (15,63); 2,3945 (0,83); 2,3761 (1,61); 2,3576 (0,90); 2,0223 (0,88); 2,0045 (0,88); 1,9868 (0,37); 1,5946 (0,62); 1,5761 (0,87); 1,5578 (0,68); 1,5512 (0,53); 1,5476 (0,45); 1,5331 (1,19); 1,5167 (1,69); 1,5130 (1,60); 1,4957 (1,79); 1,4793 (0,75); 1,3845 (0,73); 1,3661 (1,90); 1,3472 (2,48); 1,3281 (2,14); 1,3094 (1,74); 1,3014 (7,15); 1,2848 (7,02); 1,2602 (0,41); 1,2347 (0,37); 0,8947 (4,30); 0,8854 (0,52); 0,8764 (8,53); 0,8579 (3,66); 0,0079 (0,44); -0,0002 (11,06); -0,0085 (0,42)
Ejemplo 100, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4363 (1,13); 7,9530 (1,03); 7,7422 (2,09); 7,7397 (2,67); 7,7358 (1,27); 7,7272 (0,79); 7,7220 (3,47); 7,7182 (2,41); 7,5667 (0,47); 7,5553 (0,34); 7,5484 (1,69); 7,5425 (0,50); 7,5337 (0,94); 7,5303 (1,52); 7,5268 (0,74); 7,5048 (2,52); 7,5014 (1,07); 7,4897 (1,64); 7,4858 (3,14); 7,4723 (0,49); 7,4682 (1,23); 7,4647 (0,67); 7,3591 (0,68); 7,3419 (5,34); 7,3206 (1,46); 7,3179 (0,94); 7,3000 (0,72); 6,8902 (0,60); 6,8842 (1,30); 6,8782 (0,83); 6,8620 (0,56); 6,8561 (1,28); 6,8503 (0,87); 6,8344 (1,42); 6,8287 (1,55); 6,8230 (0,64); 6,8136 (1,21); 6,8077 (1,97); 6,8019 (0,97); 6,7866 (0,57); 6,7806 (0,47); 5,3455 (6,00); 4,8795 (7,70); 3,3316 (60,64); 3,0226 (16,00); 2,8905 (8,25); 2,7318 (6,79); 2,5249 (0,61); 2,5199 (1,00); 2,5115 (12,85); 2,5071 (25,50); 2,5025 (33,42); 2,4979 (24,14); 2,4934 (11,42); -0,0002 (3,58)
Ejemplo 101, Disolvente: DMSO, Espectrómetro: 300,16 MHz
10,7469 (2,01); 8,0501 (1,22); 8,0225 (1,59); 7,8555 (1,13); 7,8297 (1,58); 7,8028 (0,98); 7,4420 (0,86); 7,4156 (2,00); 7,3889 (1,62); 7,2982 (1,74); 7,2878 (2,96); 7,2721 (1,43); 7,2673 (1,58); 7,2585 (4,15); 7,2491 (2,27); 7,2438 (1,36); 7,1721 (1,72); 7,1601 (1,18); 7,1493 (1,96); 7,1348 (0,90); 7,1268 (0,84); 6,9187 (0,43); 6,9090 (3,60); 6,9024 (1,25); 6,8868 (1,07); 6,8802 (3,15); 5,7792 (10,93); 5,3829 (5,06); 3,8221 (0,32); 3,8006 (14,08); 3,7764 (0,65); 3,7715 (0,47); 3,7393 (16,00); 3,6481 (5,03); 3,3457 (19,77); 3,0509 (12,47); 2,5332 (4,56); 2,5275 (9,68); 2,5215 (13,43); 2,5155 (9,90); 2,5097 (4,84); 2,0090 (0,55); 1,3760 (1,22); 1,2529 (0,35); 1,1941 (0,33)
Ejemplo 102, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5242 (2,13); 8,0679 (1,37); 8,0472 (1,63); 7,8307 (1,34); 7,8114 (1,94); 7,7912 (1,22); 7,7241 (2,75); 7,7111 (0,90); 7,7062 (3,50); 7,7025 (2,47); 7,5645 (0,49); 7,5614 (0,32); 7,5526 (0,38); 7,5462 (1,71); 7,5406 (0,51); 7,5312 (0,95); 7,5280 (1,45); 7,5247 (0,76); 7,4971 (2,53); 7,4815 (1,78); 7,4779 (3,24); 7,4642 (0,51); 7,4602 (1,26); 7,4571 (0,76); 7,1399 (1,95); 7,1217 (1,87); 5,3548 (6,82); 3,3292 (42,97); 3,0730 (0,32); 3,0546 (16,00); 2,8909 (1,93); 2,7319 (1,57); 2,5252 (0,57); 2,5118 (11,07); 2,5074 (21,63); 2,5029 (28,29); 2,4983 (20,72); 2,4939 (10,11); 2,4089 (1,88); 2,3900 (2,51); 2,3714 (1,87); 1,5491 (0,55); 1,5323 (0,76); 1,5164 (0,78); 1,4985 (1,41); 1,4795 (2,01); 1,4614 (1,88); 1,4455 (0,59); 0,8855 (15,29); 0,8696 (14,75); -0,0002 (6,94)
Ejemplo 103, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,6620 (1,02); 7,9532 (1,10); 7,7277 (2,89); 7,7100 (3,52); 7,7063 (2,55); 7,5612 (0,50); 7,5582 (0,33); 7,5497 (0,38); 7,5430 (1,74); 7,5371 (0,53); 7,5280 (1,04); 7,5248 (1,55); 7,5216 (0,82); 7,4989 (2,68); 7,4798 (3,33); 7,4622 (1,26); 7,4588 (0,79); 7,2416 (4,49); 5,2743 (6,55); 5,1458 (0,56); 5,1370 (0,72); 5,1313 (1,01); 5,1252 (0,71); 5,1167 (0,57); 3,3296 (47,71); 3,0365 (16,00); 2,8909 (7,86); 2,7321 (6,63); 2,5113 (13,57); 2,5071 (25,86); 2,5026 (33,34); 2,4981 (24,40); 2,4939 (11,91); 1,8996 (0,48); 1,8832 (1,00); 1,8717 (1,05); 1,8505 (0,60); 1,8449 (0,54); 1,7182 (0,46); 1,7032 (1,18); 1,6959 (1,56); 1,6925 (1,61); 1,6833 (2,22); 1,6735 (2,37); 1,6562 (1,08); 1,6320 (0,42); 1,6069 (0,36); 1,5959 (0,69); 1,5853 (0,68); 1,5704 (1,26); 1,5457 (0,35); 0,0080 (0,35); -0,0002 (9,28)
Ejemplo 104, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2939 (6,31); 7,8558 (0,51); 7,8440 (1,72); 7,8357 (0,89); 7,8230 (4,05); 7,8168 (0,98); 7,8054 (4,73); 7,7926 (4,97); 7,7902 (5,55); 7,7720 (2,13); 7,7215 (6,33); 7,7090 (2,34); 7,7038 (7,73); 7,7000 (5,45); 7,6175 (0,64); 7,5968 (0,54); 7,5713 (1,20); 7,5596 (1,05); 7,5530 (4,07); 7,5472 (1,42); 7,5380 (2,43); 7,5349 (3,51); 7,5073 (6,06); 7,4915 (4,68); 7,4882 (7,26); 7,4705 (2,77); 7,4674 (1,61); 7,2332 (0,54); 7,2143 (0,52); 7,1100 (3,45); 7,1076 (3,49); 7,0925 (3,45); 7,0899 (3,28); 5,7602 (11,54); 5,4179 (1,98); 5,3443 (14,61); 5,2751 (0,43); 4,2022 (0,88); 4,1917 (4,86); 4,1865 (2,38); 4,1750 (10,43); 4,1584 (4,82); 3,9159 (0,66); 3,8980 (0,66); 3,5263 (1,92); 3,5082 (6,28); 3,4900 (6,44); 3,4775 (1,40); 3,4719 (2,08); 3,4596 (0,99); 3,4413 (0,36); 3,3443 (713,81); 3,3210 (3,83); 3,3024 (0,58); 2,9067 (3,20); 2,9001 (6,96); 2,8935 (3,66);

2,8869 (1,01); 2,8805 (0,47); 2,6802 (0,44); 2,6757 (0,64); 2,6713 (0,41); 2,5730 (2,91); 2,5665 (3,13); 2,5564 (6,33); 2,5498 (6,37); 2,5397 (3,91); 2,5331 (4,11); 2,5154 (39,34); 2,5111 (78,78); 2,5067 (105,05); 2,5023 (74,78); 2,4980 (35,14); 2,3377 (0,50); 2,3334 (0,65); 2,3289 (0,47); 2,0901 (2,66); 2,0782 (0,62); 1,9929 (1,19); 1,4235 (0,61); 1,2382 (0,57); 1,1961 (0,35); 1,1784 (0,67); 1,1606 (0,37); 1,1448 (0,84); 1,1275 (1,87); 1,1100 (0,80); 1,0675 (1,39); 1,0599 (7,31); 1,0495 (3,20); 1,0418 (16,00); 1,0314 (1,91); 1,0237 (6,94)
Ejemplo 105, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6888 (2,29); 8,0230 (0,81); 8,0023 (1,05); 7,8853 (1,37); 7,8660 (1,90); 7,8458 (1,14); 7,7286 (2,72); 7,7157 (0,85); 7,7107 (3,53); 7,7070 (2,50); 7,5677 (0,49); 7,5558 (0,38); 7,5494 (1,72); 7,5437 (0,50); 7,5344 (0,92); 7,5311 (1,45); 7,5278 (0,74); 7,5000 (2,48); 7,4845 (1,77); 7,4808 (3,23); 7,4671 (0,52); 7,4631 (1,26); 7,4599 (0,72); 7,3445 (1,36); 7,3241 (2,63); 7,3037 (1,70); 7,2095 (1,86); 7,1910 (1,80); 7,0664 (1,30); 7,0612 (2,44); 7,0556 (1,80); 7,0393 (1,31); 7,0376 (1,44); 7,0347 (1,04); 7,0329 (0,93); 7,0196 (1,14); 7,0178 (1,14); 7,0149 (1,00); 7,0131 (0,84); 6,9594 (1,17); 6,9577 (1,14); 6,9533 (1,08); 6,9384 (1,06); 6,9323 (0,99); 5,3865 (6,45); 4,8441 (6,17); 3,3480 (144,23); 3,2984 (0,34); 3,0694 (16,00); 2,8911 (0,45); 2,7324 (0,35); 2,5262 (0,72); 2,5128 (13,63); 2,5084 (26,69); 2,5038 (34,77); 2,4993 (25,25); 2,4948 (12,15); -0,0002 (0,43)
Ejemplo 106, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2417 (2,97); 7,9536 (0,95); 7,8241 (0,68); 7,8032 (1,80); 7,7858 (2,31); 7,7775 (2,45); 7,7751 (2,42); 7,7569 (0,88); 7,7227 (2,89); 7,7047 (3,55); 7,7012 (2,48); 7,5630 (0,52); 7,5447 (1,70); 7,5394 (0,58); 7,5294 (1,13); 7,5267 (1,45); 7,4963 (2,60); 7,4769 (3,29); 7,4588 (1,64); 7,4539 (2,05); 7,4494 (2,24); 7,4435 (1,60); 7,4357 (2,21); 7,4307 (2,78); 7,4263 (1,72); 7,3234 (0,47); 7,3192 (0,61); 7,3050 (1,71); 7,3008 (1,58); 7,2944 (1,78); 7,2881 (2,65); 7,2825 (1,34); 7,2758 (1,44); 7,2708 (1,16); 7,2576 (0,62); 7,2524 (0,35); 7,2423 (0,38); 7,1068 (1,69); 7,1043 (1,56); 7,0896 (1,64); 7,0872 (1,47); 5,3307 (6,73); 4,3338 (1,79); 4,3167 (3,86); 4,2997 (1,85); 3,3359 (83,87); 3,0961 (1,82); 3,0791 (3,82); 3,0628 (16,00); 2,8910 (6,51); 2,7320 (5,63); 2,5076 (32,88); 2,5032 (39,64); 2,4988 (28,69); 2,4947 (14,33); 1,2352 (0,39); 0,0003 (5,61); -0,0002 (5,65)
Ejemplo 107, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1721 (2,46); 7,8286 (0,36); 7,8075 (2,24); 7,8003 (2,37); 7,7935 (5,60); 7,7793 (0,43); 7,7306 (0,33); 7,7250 (2,01); 7,7223 (2,61); 7,7185 (1,27); 7,7098 (0,80); 7,7046 (3,45); 7,7009 (2,39); 7,5616 (0,49); 7,5497 (0,38); 7,5433 (1,63); 7,5376 (0,49); 7,5284 (0,91); 7,5250 (1,44); 7,5216 (0,73); 7,4945 (2,40); 7,4911 (1,03); 7,4792 (1,69); 7,4754 (3,08); 7,4619 (0,50); 7,4578 (1,26); 7,4546 (0,69); 7,1006 (1,28); 7,0937 (1,26); 7,0866 (1,07); 7,0798 (1,21); 5,3301 (6,35); 4,0971 (1,77); 4,0804 (3,85); 4,0637 (1,82); 3,3283 (53,91); 3,0652 (16,00); 3,0545 (0,62); 2,5253 (0,57); 2,5205 (0,90); 2,5119 (11,11); 2,5074 (22,32); 2,5028 (29,56); 2,4982 (21,54); 2,4937 (10,36); 1,6184 (1,00); 1,6011 (1,41); 1,5818 (1,25); 1,5650 (0,47); 1,3629 (0,66); 1,3457 (0,90); 1,3334 (0,74); 1,3245 (0,96); 1,3098 (0,94); 1,2964 (2,73); 1,2872 (2,45); 1,2798 (2,81); 1,2710 (1,46); 1,2618 (0,93); 1,2345 (0,37); 0,8922 (0,61); 0,8869 (1,63); 0,8698 (5,16); 0,8595 (0,97); 0,8526 (1,69); -0,0002 (9,40)
Ejemplo 108, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,9621 (1,63); 7,4051 (3,60); 7,3952 (3,49); 7,3888 (3,48); 7,2892 (2,92); 7,2696 (2,25); 7,2481 (4,22); 7,1363 (2,57); 7,1160 (2,18); 6,5182 (2,73); 6,5005 (2,58); 6,4004 (2,72); 6,3798 (2,56); 6,0273 (6,83); 5,9367 (0,32); 5,2248 (0,33); 5,1887 (9,33); 5,0260 (0,42); 3,7964 (16,00); 3,7671 (1,28); 3,3492 (7,06); 3,0848 (15,07); 2,8992 (6,82); 2,7403 (6,47); 2,5119 (33,94); 1,9999 (0,81); 1,3674 (2,15); 1,2435 (0,54); 1,2014 (0,33); 1,1841 (0,55)
Ejemplo 109, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,3271 (3,10); 7,8427 (0,59); 7,8217 (2,51); 7,8111 (3,15); 7,8063 (5,43); 7,7907 (0,61); 7,7233 (3,28); 7,7050 (3,80); 7,7016 (2,83); 7,5629 (0,61); 7,5446 (1,89); 7,5391 (0,74); 7,5264 (1,63); 7,4964 (3,03); 7,4770 (3,60); 7,4594 (1,33); 7,1163 (1,58); 7,1106 (1,55); 7,1013 (1,43); 7,0957 (1,45); 6,0095 (0,33); 5,9963 (0,68); 5,9833 (0,68); 5,9700 (0,83); 5,9533 (0,85); 5,9402 (0,77); 5,9270 (0,81); 5,9139 (0,39); 5,3939 (1,55); 5,3897 (1,55); 5,3507 (2,00); 5,3495 (1,97); 5,3397 (8,04); 5,2409 (1,51); 5,2371 (1,45); 5,2146 (1,37); 5,2109 (1,32); 4,6268 (3,53); 4,6137 (3,35); 3,3417 (129,08); 3,0661 (16,00); 2,8909 (1,92); 2,7314 (1,69); 2,5077 (26,43); 2,5035 (32,92); 2,4992 (25,05)
Ejemplo 110, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,0548 (2,57); 7,9532 (0,61); 7,8197 (0,51); 7,8038 (0,33); 7,7987 (1,99); 7,7830 (3,68); 7,7808 (3,18); 7,7646 (0,58); 7,7302 (0,33); 7,7247 (1,94); 7,7220 (2,61); 7,7182 (1,27); 7,7094 (0,79); 7,7043 (3,41); 7,7005 (2,35); 7,5617 (0,48); 7,5499 (0,36); 7,5434 (1,61); 7,5377 (0,48); 7,5285 (0,87); 7,5252 (1,43); 7,5217 (0,72); 7,4949 (2,40); 7,4915 (1,04); 7,4796 (1,62); 7,4758 (3,05); 7,4622 (0,47); 7,4581 (1,20); 7,4549 (0,67); 7,0923 (1,33); 7,0873 (1,33); 7,0766 (1,19); 7,0715 (1,26); 5,3225 (6,45); 5,0982 (0,54); 5,0902 (0,65); 5,0831 (0,91); 5,0762 (0,62); 5,0681 (0,50); 3,3296 (49,98); 3,0659 (16,00); 2,8907 (4,97); 2,7320 (3,82); 2,7311 (3,98); 2,5252 (0,63); 2,5203 (0,96); 2,5118 (10,77); 2,5073 (21,36); 2,5027 (28,12); 2,4981 (20,42); 2,4936 (9,73); 1,8855 (0,35); 1,8780 (0,43); 1,8663 (0,87); 1,8495 (0,80); 1,8362 (0,63); 1,8309 (0,55); 1,8225 (0,52); 1,7047 (0,59); 1,6833 (2,80); 1,6742 (1,66); 1,6689 (1,26); 1,6630 (1,06); 1,6539 (0,96); 1,6440 (0,57); 1,6363 (0,54); 1,5916 (0,45); 1,5826 (0,56); 1,5764 (0,64); 1,5611 (1,08); 1,5571 (0,89); 1,5509 (1,03); -0,0002 (7,45)
Ejemplo 111, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5173 (3,55); 8,0818 (2,07); 8,0610 (2,40); 7,8400 (1,49); 7,8204 (2,59); 7,8006 (1,35); 7,7321 (4,08); 7,7130 (4,68); 7,5713 (0,69); 7,5537 (2,02); 7,5358 (1,92); 7,5048 (3,39); 7,4858 (4,32); 7,4672 (1,60); 7,1487 (2,67); 7,1301 (2,55); 5,3622 (9,11); 4,0634 (0,77); 4,0458 (2,29); 4,0280 (2,34); 4,0104 (0,78); 3,5757 (1,57); 3,3373 (54,92); 3,0616 (16,00); 2,5108 (37,34); 2,3989 (2,30); 2,3805 (4,60); 2,3622 (2,55); 1,9970 (9,33); 1,6150 (0,58); 1,5967 (1,91); 1,5789 (2,76); 1,5616 (1,95); 1,5447 (0,63); 1,3107 (1,68); 1,2872 (4,54); 1,2794 (4,48); 1,2001 (2,47); 1,1823 (4,81); 1,1646 (2,43); 0,8870 (3,49); 0,8708 (7,31); 0,8535 (3,47)
Ejemplo 112, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1208 (2,89); 7,8322 (0,46); 7,8112 (1,96); 7,7990 (2,44); 7,7954 (3,87); 7,7783 (0,52); 7,4212 (1,03); 7,4012 (2,17); 7,3812 (1,57); 7,2836 (1,41); 7,2802 (1,23); 7,2667 (0,77); 7,2630 (1,17); 7,2609 (0,94); 7,2455 (1,55); 7,2396 (1,91); 7,2354 (1,30); 7,1432 (1,08); 7,1414 (1,11); 7,1368 (0,98); 7,1351 (0,95); 7,1226 (0,95); 7,1207 (0,92); 7,1163 (0,93); 7,0998 (1,28); 7,0945 (1,26); 7,0843 (1,15); 7,0791 (1,19); 5,7679 (0,34); 5,3315 (5,87); 4,6766 (0,39); 4,6635 (0,43); 4,6541 (0,70); 4,6446 (0,51); 4,6316 (0,34); 3,7886 (16,00); 3,4026 (2,53); 3,3527 (178,70);

3,3291 (0,82); 3,3028 (1,97); 3,0577 (14,67); 2,5595 (0,42); 2,5185 (11,43); 2,5141 (23,24); 2,5096 (31,23); 2,5051 (22,06); 2,5007 (10,07); 2,4597 (0,33); 1,8754 (0,69); 1,8619 (0,81); 1,8498 (0,83); 1,7325 (0,70); 1,7239 (0,75); 1,7097 (0,81); 1,7018 (0,74); 1,5284 (0,36); 1,5177 (0,38); 1,4971 (0,42); 1,4340 (0,80); 1,4088 (1,05); 1,3845 (1,17); 1,3585 (0,94); 1,3330 (0,71); 1,3263 (0,79); 1,3005 (0,41); 1,2779 (0,34); 1,2490 (0,53); 1,2223 (0,32)
Ejemplo 113. Disolvente: DMSO. Espectrómetro: 399,95 MHz
12,5540 (0,80); 7,9538 (0,81); 7,7433 (1,98); 7,7404 (2,71); 7,7364 (1,31); 7,7280 (0,79); 7,7228 (3,57); 7,7190 (2,45); 7,6150 (1,60); 7,6111 (1,69); 7,5955 (1,74); 7,5915 (1,73); 7,5675 (0,49); 7,5561 (0,35); 7,5492 (1,69); 7,5433 (0,50); 7,5345 (0,94); 7,5311 (1,55); 7,5276 (0,77); 7,5052 (2,53); 7,5018 (1,07); 7,4902 (1,59); 7,4862 (3,09); 7,4729 (0,48); 7,4687 (1,26); 7,4652 (0,69); 7,3483 (4,70); 7,3229 (0,76); 7,3189 (0,76); 7,3043 (1,04); 7,3020 (1,20); 7,3006 (1,18); 7,2983 (1,03); 7,2837 (0,98); 7,2796 (0,92); 6,9421 (1,20); 6,9394 (1,71); 6,9307 (1,25); 6,9274 (0,83); 6,9212 (1,20); 6,9184 (1,52); 6,9117 (1,75); 6,9084 (1,26); 6,8926 (0,93); 6,8893 (0,75); 5,3443 (5,56); 5,1249 (0,37); 5,1085 (1,38); 5,0919 (1,38); 5,0754 (0,37); 3,3375 (33,52); 3,0312 (16,00); 2,8906 (6,70); 2,7329 (5,32); 2,7316 (5,38); 2,5217 (0,49); 2,5131 (6,08); 2,5086 (12,24); 2,5040 (16,21); 2,4994 (11,72); 2,4948 (5,51); 1,5957 (5,55); 1,5792 (5,51); -0,0002 (3,65)
Ejemplo 114. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,8702 (1,70); 8,1751 (1,42); 8,1545 (1,70); 7,9528 (0,63); 7,9350 (1,32); 7,9154 (1,92); 7,8954 (1,21); 7,7304 (2,73); 7,7267 (1,39); 7,7174 (0,88); 7,7126 (3,87); 7,7090 (3,07); 7,6955 (1,19); 7,6910 (1,34); 7,6763 (0,74); 7,6721 (0,75); 7,6099 (0,35); 7,6053 (0,36); 7,5965 (0,39); 7,5916 (0,77); 7,5889 (0,59); 7,5872 (0,60); 7,5847 (0,51); 7,5767 (0,64); 7,5736 (0,64); 7,5707 (0,85); 7,5652 (0,83); 7,5616 (0,43); 7,5571 (0,53); 7,5528 (0,75); 7,5464 (1,70); 7,5408 (0,51); 7,5315 (0,93); 7,5282 (1,48); 7,5249 (0,76); 7,4981 (2,54); 7,4827 (1,70); 7,4790 (3,20); 7,4654 (0,50); 7,4614 (1,27); 7,4582 (0,74); 7,3500 (0,97); 7,3305 (1,97); 7,3254 (1,16); 7,3230 (1,02); 7,3137 (1,91); 7,3117 (1,78); 7,3044 (0,84); 7,3022 (0,81); 7,2951 (1,00); 7,2927 (0,81); 7,2431 (1,90); 7,2246 (1,80); 5,3929 (6,33); 3,3399 (89,26); 3,0941 (16,00); 3,0812 (0,41); 2,8906 (4,90); 2,7311 (3,99); 2,5255 (0,57); 2,5206 (0,91); 2,5121 (11,45); 2,5077 (22,91); 2,5031 (30,33); 2,4985 (22,07); 2,4940 (10,54); -0,0002 (1,99)
Ejemplo 115. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,5535 (2,14); 8,0453 (1,37); 8,0248 (1,75); 7,9533 (0,58); 7,8791 (1,33); 7,8597 (1,83); 7,8396 (1,15); 7,7277 (2,65); 7,7239 (1,28); 7,7149 (0,79); 7,7098 (3,48); 7,7061 (2,42); 7,5674 (0,50); 7,5554 (0,37); 7,5490 (1,69); 7,5434 (0,49); 7,5341 (0,87); 7,5308 (1,43); 7,5274 (0,72); 7,4986 (2,43); 7,4952 (1,03); 7,4831 (1,67); 7,4794 (3,16); 7,4657 (0,48); 7,4617 (1,25); 7,4585 (0,70); 7,2046 (1,82); 7,1866 (1,74); 7,0277 (0,86); 7,0235 (0,93); 7,0075 (1,89); 7,0037 (1,74); 6,9928 (1,10); 6,9892 (1,35); 6,9793 (1,11); 6,9733 (1,45); 6,9696 (1,93); 6,9605 (1,74); 6,9565 (1,00); 6,9409 (0,80); 6,9370 (0,55); 6,8791 (1,07); 6,8750 (1,06); 6,8600 (1,42); 6,8559 (1,24); 6,8409 (0,58); 6,8369 (0,54); 5,3912 (6,09); 4,9657 (0,34); 4,9492 (1,22); 4,9325 (1,22); 4,9160 (0,35); 3,8202 (15,07); 3,3287 (41,87); 3,0620 (16,00); 2,8905 (4,85); 2,7313 (3,79); 2,5251 (0,62); 2,5202 (1,01); 2,5117 (12,12); 2,5072 (24,14); 2,5026 (31,85); 2,4980 (23,10); 2,4935 (10,99); 1,5534 (5,69); 1,5368 (5,65); 0,0080 (0,39); -0,0002 (11,88); -0,0086 (0,37)
Ejemplo 116. Disolvente: DMSO. Espectrómetro: 400,13 MHz
7,7403 (2,64); 7,7225 (3,27); 7,7188 (2,39); 7,5620 (0,53); 7,5503 (0,45); 7,5436 (1,64); 7,5379 (0,62); 7,5288 (1,03); 7,5256 (1,49); 7,4993 (2,51); 7,4803 (3,04); 7,4627 (1,21); 7,4594 (0,75); 7,3734 (1,12); 7,3554 (1,47); 7,3527 (1,43); 7,3347 (1,25); 6,5737 (0,68); 6,5594 (1,25); 6,5454 (0,68); 6,4757 (1,88); 6,4583 (1,83); 6,4262 (1,83); 6,4052 (1,78); 5,7631 (6,38); 5,1946 (6,31); 3,3269 (28,63); 3,3037 (0,54); 3,2732 (0,40); 3,0709 (16,00); 3,0541 (2,95); 3,0380 (1,79); 2,6757 (0,35); 2,5154 (22,73); 2,5112 (44,61); 2,5068 (59,64); 2,5024 (44,34); 2,3336 (0,48); 2,3289 (0,37); 1,7372 (1,18); 1,7049 (1,27); 1,6654 (1,03); 1,6368 (1,42); 1,6109 (0,90); 1,5936 (0,69); 1,5153 (0,46); 1,5035 (0,48); 1,4961 (0,57); 1,4872 (0,68); 1,4780 (0,58); 1,4693 (0,50); 1,4594 (0,43); 1,1809 (0,82); 1,1503 (1,56); 1,1275 (1,24); 1,0996 (0,36); 1,0938 (0,43); 0,9326 (0,53); 0,9028 (1,13); 0,8731 (1,01); 0,8453 (0,49)
Ejemplo 117. Disolvente: DMSO. Espectrómetro: 400,13 MHz
10,3747 (3,00); 7,8516 (0,37); 7,8305 (2,52); 7,8245 (2,72); 7,8171 (5,74); 7,8036 (0,56); 7,5368 (2,33); 7,5220 (0,84); 7,5175 (0,74); 7,5125 (1,13); 7,5092 (1,16); 7,4998 (1,07); 7,4953 (0,82); 7,4443 (1,06); 7,4399 (1,48); 7,4232 (3,85); 7,4197 (3,53); 7,4154 (3,05); 7,4132 (2,99); 7,4078 (1,06); 7,3959 (3,95); 7,3913 (1,75); 7,3807 (1,43); 7,3767 (1,95); 7,3698 (2,93); 7,3685 (2,95); 7,3564 (4,77); 7,3457 (1,15); 7,3386 (1,55); 7,3308 (0,60); 7,3252 (0,51); 7,3212 (0,61); 7,3172 (0,41); 7,1149 (1,34); 7,1074 (1,36); 7,1015 (1,21); 7,0941 (1,31); 5,7646 (0,50); 5,3358 (6,92); 5,2055 (0,43); 5,1880 (7,58); 3,3664 (0,62); 3,3287 (11,77); 3,0586 (16,00); 2,5611 (0,48); 2,5569 (0,47); 2,5187 (10,61); 2,5143 (20,78); 2,5099 (27,63); 2,5054 (20,12); 2,5011 (10,23); 2,4685 (0,75); 2,4639 (0,79); 2,4593 (0,79); 2,3378 (11,35)
Ejemplo 118. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,3719 (1,81); 8,0936 (0,97); 8,0729 (1,16); 7,9533 (0,46); 7,8377 (1,27); 7,8184 (1,73); 7,7982 (1,18); 7,7229 (2,03); 7,7203 (2,60); 7,7164 (1,24); 7,7074 (0,96); 7,7025 (3,46); 7,6987 (2,34); 7,5633 (0,50); 7,5514 (0,37); 7,5450 (1,66); 7,5393 (0,50); 7,5300 (0,89); 7,5267 (1,42); 7,5233 (0,71); 7,4956 (2,45); 7,4922 (1,03); 7,4803 (1,68); 7,4765 (3,14); 7,4629 (0,48); 7,4588 (1,25); 7,4556 (0,68); 7,1366 (1,73); 7,1356 (1,73); 7,1181 (1,67); 5,3482 (6,18); 3,3881 (0,63); 3,3675 (0,98); 3,3450 (1,22); 3,3310 (66,49); 3,0506 (16,00); 2,8910 (3,83); 2,7323 (3,00); 2,7314 (2,94); 2,5255 (0,56); 2,5207 (0,90); 2,5122 (10,83); 2,5076 (21,65); 2,5030 (28,64); 2,4984 (20,76); 2,4939 (9,81); 2,2280 (0,76); 2,2225 (0,64); 2,2043 (1,00); 2,1990 (1,29); 2,1826 (0,80); 2,1775 (1,17); 2,1550 (0,38); 2,1276 (0,33); 2,1207 (0,40); 2,1183 (0,41); 2,1060 (0,79); 2,0975 (1,04); 2,0908 (0,64); 2,0847 (0,68); 2,0758 (0,97); 2,0684 (0,57); 1,9514 (0,37); 1,9467 (0,32); 1,9286 (0,60); 1,9248 (0,61); 1,9076 (0,35); 1,9021 (0,83); 1,8808 (0,44); 1,7988 (0,53); 1,7880 (0,34); 1,7850 (0,33); 1,7746 (0,41); 0,8759 (0,50); 0,8627 (0,36); -0,0002 (5,96)
Ejemplo 119. Disolvente: DMSO. Espectrómetro: 400,13 MHz
10,5103 (2,58); 7,8458 (0,89); 7,8253 (1,65); 7,8065 (1,51); 7,7503 (2,13); 7,7316 (3,58); 7,7193 (0,88); 7,7142 (3,30); 7,7105 (2,35); 7,5702 (0,47); 7,5583 (0,38); 7,5519 (1,61); 7,5462 (0,50); 7,5369 (0,91); 7,5337 (1,41); 7,5303 (0,74); 7,5036 (2,38); 7,4882 (1,66); 7,4845 (3,00); 7,4709 (0,49); 7,4669 (1,16); 7,4637 (0,68); 7,1399 (1,70); 7,1225 (1,65); 5,7646 (5,66); 5,3509 (6,05); 5,0796 (0,47); 5,0621 (1,86); 5,0444

(1,88); 5,0268 (0,48); 3,6946 (16,00); 3,3260 (15,16); 3,0829 (15,38); 2,5596 (0,41); 2,5319 (0,63); 2,5186 (12,09); 2,5142 (24,34); 2,5097 (32,66); 2,5052 (23,20); 2,5008 (10,83); 2,4598 (0,39); 1,9969 (0,93); 1,4619 (6,33); 1,4443 (6,26); 1,2544 (0,44); 1,1828 (0,51); 0,8664 (0,63)

Ejemplo 120, Disolvente: DMSO, Espectrómetro: 400,13 MHz

9,8770 (1,66); 7,8031 (0,40); 7,7821 (1,16); 7,7651 (1,72); 7,7622 (1,52); 7,7582 (1,65); 7,7411 (0,55); 7,7369 (0,47); 7,7305 (1,28); 7,7277 (1,67); 7,7238 (0,88); 7,7152 (0,59); 7,7100 (2,21); 7,7063 (1,58); 7,5501 (1,04); 7,5444 (0,34); 7,5352 (0,60); 7,5318 (0,95); 7,5284 (0,52); 7,5012 (1,52); 7,4978 (0,72); 7,4859 (1,07); 7,4821 (1,97); 7,4686 (0,35); 7,4645 (0,83); 7,4613 (0,47); 7,0799 (0,87); 7,0761 (0,90); 7,0631 (0,85); 7,0593 (0,85); 5,3253 (3,92); 3,4053 (5,47); 3,3907 (0,44); 3,3555 (386,71); 3,3239 (2,18); 3,3057 (4,68); 3,0672 (10,54); 2,5628 (0,42); 2,5584 (0,60); 2,5538 (0,45); 2,5309 (1,03); 2,5262 (1,65); 2,5175 (16,50); 2,5131 (34,24); 2,5085 (47,05); 2,5040 (34,35); 2,4995 (17,21); 2,4634 (0,82); 2,4588 (0,82); 2,4543 (0,62); 1,7964 (0,40); 1,7779 (1,36); 1,7591 (1,45); 1,7407 (0,49); 1,4327 (16,00); 1,2515 (0,87); 0,9126 (1,76); 0,8941 (4,06); 0,8753 (1,92); 0,8632 (1,53); 0,8455 (0,60)

Ejemplo 121, Disolvente: DMSO, Espectrómetro: 400,13 MHz

7,4804 (1,87); 7,4654 (5,40); 7,4431 (3,13); 7,4300 (2,24); 7,3773 (0,81); 7,3582 (3,18); 7,3431 (5,61); 6,5698 (2,81); 6,5518 (2,73); 6,4592 (2,87); 6,4384 (2,79); 6,2730 (0,68); 5,2206 (9,93); 4,6025 (1,13); 2,8986 (0,33); 2,5108 (35,19); 2,3426 (16,00); 1,3680 (0,35)

Ejemplo 122, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,2685 (2,98); 7,8412 (0,42); 7,8202 (2,15); 7,8110 (2,41); 7,8053 (5,21); 7,7901 (0,50); 7,7290 (2,66); 7,7163 (0,88); 7,7113 (3,45); 7,7076 (2,43); 7,5675 (0,49); 7,5643 (0,33); 7,5556 (0,42); 7,5492 (1,67); 7,5435 (0,51); 7,5342 (0,92); 7,5309 (1,45); 7,5276 (0,75); 7,5000 (2,45); 7,4845 (1,76); 7,4808 (3,12); 7,4672 (0,53); 7,4632 (1,24); 7,4600 (0,73); 7,1118 (1,30); 7,1057 (1,29); 7,0972 (1,15); 7,0911 (1,24); 5,7661 (6,09); 5,3394 (6,38); 4,1390 (1,65); 4,1236 (3,56); 4,1078 (1,74); 3,3408 (21,83); 3,0678 (16,00); 2,5575 (0,36); 2,5300 (0,64); 2,5252 (1,07); 2,5165 (11,30); 2,5121 (22,87); 2,5076 (30,60); 2,5031 (21,66); 2,4987 (10,00); 2,4578 (0,36); 2,3548 (0,75); 2,3437 (0,49); 2,3348 (0,89); 2,3299 (0,74); 2,3257 (0,93); 2,3152 (0,88); 2,3061 (0,73); 2,2969 (0,41); 2,2862 (0,77); 1,9944 (0,92); 1,7148 (0,82); 1,6975 (1,24); 1,6794 (1,22); 1,6638 (0,52); 1,6264 (0,57); 1,6072 (1,12); 1,5987 (0,69); 1,5893 (1,26); 1,5748 (0,59); 1,5673 (0,74); 1,1788 (0,50); 0,8619 (0,38)

Ejemplo 123, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,4657 (0,52); 7,7435 (1,98); 7,7407 (2,78); 7,7368 (1,34); 7,7284 (0,81); 7,7231 (3,56); 7,7193 (2,46); 7,6096 (3,22); 7,6031 (3,36); 7,5674 (0,49); 7,5642 (0,32); 7,5560 (0,35); 7,5491 (1,71); 7,5432 (0,52); 7,5344 (0,94); 7,5310 (1,58); 7,5275 (0,80); 7,5055 (2,62); 7,5022 (1,13); 7,4906 (1,60); 7,4865 (3,12); 7,4732 (0,49); 7,4691 (1,27); 7,4655 (0,71); 7,3681 (1,67); 7,3616 (1,59); 7,3458 (2,41); 7,3415 (5,22); 7,1019 (2,86); 7,0795 (2,44); 5,3418 (5,76); 5,0032 (6,64); 3,3373 (39,41); 3,0341 (16,00); 2,8904 (0,58); 2,7325 (0,45); 2,7313 (0,48); 2,5260 (0,37); 2,5213 (0,58); 2,5126 (7,10); 2,5081 (14,27); 2,5035 (18,89); 2,4989 (13,65); 2,4944 (6,45); -0,0002 (4,18)

Ejemplo 124, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5358 (1,87); 8,1245 (1,44); 8,1040 (1,68); 7,9540 (0,34); 7,8403 (1,29); 7,8211 (1,78); 7,8008 (1,23); 7,7331 (0,32); 7,7251 (2,68); 7,7212 (1,36); 7,7124 (0,83); 7,7072 (3,64); 7,7035 (2,46); 7,5646 (0,49); 7,5614 (0,32); 7,5526 (0,37); 7,5463 (1,68); 7,5406 (0,53); 7,5313 (0,89); 7,5280 (1,43); 7,5246 (0,75); 7,4964 (2,51); 7,4930 (1,08); 7,4810 (1,73); 7,4773 (3,21); 7,4636 (0,50); 7,4596 (1,28); 7,4564 (0,71); 7,1509 (1,79); 7,1326 (1,76); 5,3651 (6,25); 3,3307 (55,19); 3,0885 (0,43); 3,0570 (16,00); 2,8913 (2,78); 2,7326 (2,23); 2,5257 (0,55); 2,5209 (0,89); 2,5124 (10,97); 2,5079 (21,87); 2,5033 (28,84); 2,4987 (20,95); 2,4942 (10,00); 2,4785 (0,51); 2,4675 (0,56); 2,4557 (0,78); 2,4435 (0,53); 2,4331 (0,42); 1,5830 (0,57); 1,5644 (0,75); 1,5604 (0,65); 1,5494 (1,04); 1,5419 (0,73); 1,5308 (1,10); 1,5270 (1,06); 1,5083 (0,92); 1,4565 (0,86); 1,4435 (1,04); 1,4380 (1,00); 1,4248 (1,29); 1,4101 (0,65); 1,4049 (0,78); 1,3916 (0,57); 1,2831 (0,40); 0,8761 (0,72); 0,8625 (0,55); 0,8497 (6,16); 0,8312 (13,00); 0,8126 (5,44); -0,0002 (6,14)

Ejemplo 125, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,6838 (2,13); 8,0275 (0,70); 8,0071 (0,89); 7,9529 (0,51); 7,8836 (1,34); 7,8643 (1,83); 7,8441 (1,13); 7,7280 (2,62); 7,7242 (1,26); 7,7153 (0,76); 7,7103 (3,39); 7,7065 (2,35); 7,5672 (0,47); 7,5553 (0,35); 7,5488 (1,63); 7,5432 (0,47); 7,5339 (0,86); 7,5306 (1,41); 7,5273 (0,71); 7,4996 (2,39); 7,4962 (1,02); 7,4842 (1,62); 7,4804 (3,08); 7,4668 (0,47); 7,4628 (1,21); 7,4596 (0,68); 7,2637 (0,65); 7,2605 (0,68); 7,2418 (0,90); 7,2344 (0,71); 7,2306 (0,73); 7,2140 (0,86); 7,2070 (1,85); 7,1882 (1,71); 7,1166 (1,23); 7,1131 (1,25); 7,1062 (1,07); 7,0992 (2,47); 7,0861 (1,08); 7,0815 (1,08); 7,0656 (0,40); 6,9913 (0,47); 6,9839 (0,46); 6,9797 (0,57); 6,9753 (0,74); 6,9710 (0,51); 6,9688 (0,47); 6,9620 (0,72); 6,9595 (0,61); 6,9568 (0,81); 6,9417 (0,34); 5,3838 (6,25); 4,8919 (5,88); 3,3422 (120,00); 3,0701 (16,00); 2,8908 (4,16); 2,7314 (3,25); 2,5258 (0,59); 2,5209 (0,96); 2,5125 (12,14); 2,5080 (24,22); 2,5034 (32,04); 2,4988 (23,30); 2,4943 (11,11); -0,0002 (0,47)

Ejemplo 126, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,2345 (1,79); 7,9531 (0,65); 7,7473 (0,32); 7,7416 (2,17); 7,7390 (2,79); 7,7350 (1,36); 7,7265 (0,85); 7,7213 (3,63); 7,7175 (2,55); 7,5658 (0,50); 7,5626 (0,34); 7,5544 (0,37); 7,5475 (1,77); 7,5416 (0,54); 7,5328 (0,99); 7,5294 (1,57); 7,5259 (0,79); 7,5039 (2,61); 7,5005 (1,12); 7,4889 (1,73); 7,4849 (3,27); 7,4715 (0,51); 7,4674 (1,27); 7,4638 (0,72); 7,3688 (0,58); 7,3548 (8,10); 7,3484 (3,98); 7,3392 (5,49); 7,3374 (5,17); 7,3256 (0,54); 7,3220 (0,68); 7,3198 (0,76); 7,3011 (0,72); 7,2948 (0,86); 7,2880 (0,73); 7,2835 (0,57); 7,2793 (0,84); 7,2704 (0,45); 7,2651 (0,33); 5,3402 (6,12); 4,8146 (0,33); 4,5665 (1,64); 4,5370 (2,66); 4,4470 (2,69); 4,4175 (1,75); 4,2618 (0,44); 4,2452 (1,72); 4,2284 (1,75); 4,2118 (0,45); 3,3318 (62,61); 3,0271 (16,00); 2,8906 (5,33); 2,7319 (4,34); 2,5251 (0,72); 2,5201 (1,16); 2,5117 (13,47); 2,5072 (26,54); 2,5026 (34,66); 2,4980 (25,07); 2,4935 (11,92); 2,2691 (0,44); 1,3627 (6,04); 1,3460 (5,97); -0,0002 (4,02)

Ejemplo 127, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,2000 (6,98); 7,8389 (1,87); 7,8181 (4,15); 7,8002 (4,53); 7,7817 (5,60); 7,7629 (2,39); 7,7251 (6,61); 7,7073 (7,91); 7,7036 (5,68); 7,5740 (1,19); 7,5708 (0,90); 7,5621 (1,14); 7,5556 (3,97); 7,5500 (1,39); 7,5406 (2,48); 7,5376 (3,46); 7,5099 (6,02); 7,4907 (7,25); 7,4731 (2,66); 7,4700 (1,61); 7,1049 (3,87); 7,1031 (3,86); 7,0873 (3,71); 5,4189 (0,40); 5,3416 (14,90); 4,9351 (0,33); 4,9193 (1,53); 4,9040 (3,12); 4,8886 (3,12); 4,8733 (1,46); 3,5367 (2,01); 3,5187 (6,44); 3,5005 (6,54); 3,4824 (2,14); 3,4615 (0,52); 3,4113 (5,44); 3,3608 (562,41); 3,3260 (0,72); 3,3101 (8,40); 3,2614 (0,35); 2,9312 (3,09); 2,9247 (6,61); 2,9182 (3,06); 2,6840 (0,50); 2,6792 (0,64); 2,6749 (0,47); 2,5607 (1,30); 2,5565 (1,25); 2,5340 (7,87); 2,5278 (11,07); 2,5189 (47,05); 2,5147 (84,48); 2,5104 (107,33); 2,5060 (77,67); 2,4686 (0,81); 2,4641 (1,25); 2,4596

(1,62); 2,4551 (1,28); 2,3416 (0,54); 2,3373 (0,67); 2,3327 (0,48); 1,9964 (1,24); 1,3706 (1,15); 1,3167 (15,46); 1,3010 (15,61); 1,2836 (1,00); 1,2656 (0,90); 1,2502 (1,98); 1,1986 (0,44); 1,1808 (0,70); 1,1630 (0,37); 1,1258 (0,38); 1,0638 (7,30); 1,0458 (16,00); 1,0276 (7,04); 0,8805 (0,81); 0,8640 (2,18); 0,8463 (0,88)

Ejemplo 128, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7155 (2,03); 8,0201 (1,22); 7,9995 (1,58); 7,9531 (0,49); 7,8666 (1,32); 7,8474 (1,76); 7,8271 (1,13); 7,7281 (1,97); 7,7256 (2,53); 7,7217 (1,20); 7,7129 (0,76); 7,7078 (3,40); 7,7040 (2,35); 7,5673 (0,49); 7,5553 (0,35); 7,5490 (1,63); 7,5433 (0,47); 7,5340 (0,85); 7,5306 (1,40); 7,5272 (0,69); 7,4980 (2,33); 7,4946 (0,96); 7,4825 (1,64); 7,4788 (3,05); 7,4652 (0,47); 7,4611 (1,23); 7,4580 (0,68); 7,1982 (1,73); 7,1806 (1,68); 7,1660 (0,97); 7,1456 (2,10); 7,1255 (1,31); 6,7582 (2,69); 6,7413 (1,17); 6,7141 (0,88); 6,6937 (0,85); 6,6877 (0,71); 5,3827 (5,91); 5,0545 (1,06); 5,0380 (1,07); 3,3429 (107,22); 3,0573 (16,00); 2,8908 (4,15); 2,7323 (3,24); 2,7313 (3,21); 2,5260 (0,57); 2,5212 (0,93); 2,5126 (12,24); 2,5081 (24,48); 2,5035 (32,21); 2,4989 (23,19); 2,4944 (10,92); 2,2430 (9,37); 1,5184 (5,42); 1,5019 (5,40); -0,0002 (1,29)

Ejemplo 129, Disolvente: DMSO, Espectrómetro: 400,13 MHz

7,6045 (0,61); 7,5849 (2,48); 7,5672 (8,15); 7,5630 (8,02); 7,5548 (9,54); 7,5335 (4,79); 7,5141 (2,65); 7,4570 (1,82); 7,4342 (2,49); 7,4185 (1,32); 6,6476 (4,56); 6,6296 (4,37); 6,5329 (4,74); 6,5120 (4,57); 6,3970 (0,74); 6,3109 (0,40); 5,3044 (16,00); 5,1127 (0,42); 5,0351 (0,34); 4,7538 (1,76); 4,5189 (0,41); 4,4872 (0,34); 2,9502 (0,66); 2,7909 (0,62); 2,5626 (54,18); 2,3891 (0,36); 1,4191 (0,50); -0,0002 (2,62)

Ejemplo 130, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,6899 (5,67); 8,0245 (2,42); 8,0039 (3,35); 7,9045 (3,07); 7,8853 (4,11); 7,8650 (2,50); 7,7289 (5,97); 7,7252 (2,97); 7,7162 (1,84); 7,7112 (7,77); 7,7074 (5,51); 7,5829 (0,57); 7,5800 (1,08); 7,5768 (0,71); 7,5682 (0,82); 7,5616 (3,73); 7,5559 (1,15); 7,5467 (2,06); 7,5434 (3,29); 7,5400 (1,72); 7,5145 (5,55); 7,4992 (3,66); 7,4954 (6,95); 7,4819 (1,09); 7,4778 (2,68); 7,4746 (1,56); 7,2215 (4,06); 7,2037 (3,89); 7,0153 (2,78); 7,0110 (2,28); 7,0073 (1,43); 6,9983 (1,32); 6,9944 (5,05); 6,9904 (2,48); 6,9860 (0,80); 6,9096 (1,34); 6,9030 (1,64); 6,8933 (2,64); 6,8871 (4,18); 6,8820 (2,67); 6,8693 (9,15); 6,8657 (6,94); 6,8610 (4,65); 6,8495 (3,54); 6,8455 (0,95); 6,8371 (0,71); 6,8295 (0,67); 6,8255 (0,57); 5,3987 (13,52); 5,0934 (1,73); 5,0857 (2,23); 5,0819 (2,46); 5,0744 (1,78); 4,4509 (0,98); 4,4434 (1,16); 4,4215 (3,90); 4,4141 (3,74); 4,4071 (3,72); 4,3949 (3,44); 4,3776 (1,05); 4,3656 (1,10); 4,0433 (0,55); 4,0255 (0,55); 3,5160 (1,76); 3,4979 (5,98); 3,4797 (6,13); 3,4622 (2,17); 3,4131 (7,23); 3,3948 (0,59); 3,3824 (1,27); 3,3630 (703,91); 3,3279 (1,21); 3,3203 (1,10); 3,3134 (6,00); 2,6835 (0,40); 2,6789 (0,57); 2,6745 (0,41); 2,5645 (0,76); 2,5600 (0,98); 2,5555 (0,64); 2,5323 (1,32); 2,5276 (2,19); 2,5188 (33,47); 2,5144 (71,25); 2,5099 (97,99); 2,5054 (70,26); 2,5010 (32,73); 2,4647 (0,92); 2,4603 (1,04); 2,4559 (0,75); 2,3413 (0,47); 2,3367 (0,65); 2,3323 (0,46); 1,9958 (2,57); 1,3751 (0,35); 1,2514 (0,98); 1,1981 (0,72); 1,1803 (1,39); 1,1624 (0,67); 1,0707 (6,92); 1,0527 (16,00); 1,0344 (6,79); 0,8803 (0,46); 0,8635 (1,48); 0,8459 (0,57)

Ejemplo 131, Disolvente: DMSO, Espectrómetro: 400,13 MHz

9,8705 (1,10); 7,7857 (0,75); 7,7701 (1,59); 7,7666 (1,14); 7,4220 (0,40); 7,4020 (0,87); 7,3820 (0,66); 7,2838 (0,56); 7,2814 (0,50); 7,2642 (0,47); 7,2621 (0,38); 7,2465 (0,61); 7,2407 (0,78); 7,2365 (0,54); 7,1422 (0,46); 7,1374 (0,47); 7,1234 (0,39); 7,1214 (0,41); 7,1170 (0,43); 7,0818 (0,53); 7,0772 (0,54); 7,0659 (0,49); 7,0612 (0,51); 5,3238 (2,45); 3,7901 (6,40); 3,7597 (0,86); 3,3412 (4,16); 3,0542 (5,92); 2,5596 (0,38); 2,5318 (0,39); 2,5182 (9,59); 2,5139 (19,99); 2,5094 (27,16); 2,5050 (19,46); 2,5006 (9,11); 2,4638 (0,36); 2,4592 (0,49); 2,4546 (0,36); 1,4692 (16,00); 1,3642 (2,08)

Ejemplo 132, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5084 (1,89); 8,0977 (1,47); 8,0771 (1,73); 7,9534 (0,51); 7,8376 (1,28); 7,8183 (1,78); 7,7981 (1,20); 7,7242 (2,60); 7,7204 (1,26); 7,7115 (0,79); 7,7064 (3,42); 7,7027 (2,37); 7,5651 (0,48); 7,5532 (0,36); 7,5468 (1,63); 7,5411 (0,48); 7,5318 (0,87); 7,5285 (1,41); 7,5251 (0,72); 7,4974 (2,42); 7,4941 (1,04); 7,4820 (1,66); 7,4783 (3,08); 7,4647 (0,48); 7,4606 (1,22); 7,4575 (0,68); 7,1466 (1,79); 7,1289 (1,74); 5,3609 (6,34); 3,3353 (90,78); 3,0575 (16,00); 2,8911 (4,14); 2,7323 (3,28); 2,6169 (0,38); 2,6002 (0,62); 2,5815 (0,65); 2,5645 (0,43); 2,5258 (0,58); 2,5124 (11,50); 2,5079 (22,88); 2,5033 (30,06); 2,4987 (21,84); 2,4942 (10,42); 1,6265 (0,39); 1,6076 (0,56); 1,5929 (0,60); 1,5879 (0,49); 1,5739 (0,72); 1,5543 (0,52); 1,4098 (0,44); 1,3949 (0,61); 1,3914 (0,54); 1,3764 (0,84); 1,3614 (0,42); 1,3579 (0,55); 1,3430 (0,35); 1,0670 (6,48); 1,0500 (6,37); 0,8591 (3,34); 0,8406 (7,10); 0,8221 (2,95); -0,0002 (3,50)

Ejemplo 133, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,2555 (2,88); 7,9531 (0,76); 7,8280 (0,44); 7,8069 (2,11); 7,7965 (2,37); 7,7915 (4,71); 7,7756 (0,51); 7,7315 (0,33); 7,7259 (2,06); 7,7234 (2,70); 7,7195 (1,31); 7,7107 (0,85); 7,7056 (3,55); 7,7019 (2,45); 7,5632 (0,50); 7,5600 (0,32); 7,5513 (0,38); 7,5448 (1,69); 7,5392 (0,51); 7,5300 (0,91); 7,5266 (1,46); 7,5232 (0,75); 7,4961 (2,48); 7,4928 (1,06); 7,4807 (1,71); 7,4770 (3,17); 7,4634 (0,50); 7,4593 (1,26); 7,4561 (0,71); 7,2626 (0,99); 7,2462 (1,42); 7,2345 (0,83); 7,2249 (1,11); 7,2124 (1,27); 7,1728 (0,56); 7,1672 (0,56); 7,1604 (1,25); 7,1500 (1,89); 7,1427 (0,74); 7,1365 (2,59); 7,1339 (2,60); 7,1288 (1,07); 7,1246 (2,62); 7,1186 (0,97); 7,1123 (1,83); 7,1086 (1,48); 7,1028 (1,38); 7,0936 (1,21); 7,0878 (1,28); 5,3338 (6,42); 4,3817 (0,48); 4,2754 (1,63); 4,2574 (3,43); 4,2394 (1,67); 3,3352 (98,43); 3,0632 (16,00); 3,0034 (0,39); 2,9546 (1,54); 2,9366 (3,11); 2,9187 (1,46); 2,8904 (6,13); 2,7320 (4,83); 2,7312 (4,79); 2,5252 (0,65); 2,5119 (12,06); 2,5074 (23,69); 2,5028 (30,99); 2,4982 (22,39); 2,4937 (10,61); 2,3295 (0,32); 2,3147 (12,20); 2,3068 (1,71); -0,0002 (3,96)

Ejemplo 134, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,6679 (2,32); 8,1176 (1,76); 8,0970 (2,18); 7,9559 (2,46); 7,9543 (2,55); 7,9518 (2,58); 7,9093 (1,35); 7,8900 (1,98); 7,8698 (1,21); 7,7338 (2,71); 7,7208 (0,88); 7,7158 (3,43); 7,7121 (2,48); 7,6437 (2,27); 7,6348 (2,35); 7,5669 (0,49); 7,5550 (0,38); 7,5486 (1,70); 7,5430 (0,50); 7,5336 (0,94); 7,5304 (1,44); 7,5272 (0,76); 7,5003 (2,49); 7,4846 (1,77); 7,4810 (3,22); 7,4673 (0,52); 7,4633 (1,23); 7,4602 (0,73); 7,2176 (1,98); 7,1991 (1,92); 6,7062 (1,85); 6,7020 (1,84); 6,6974 (1,83); 6,6931 (1,77); 5,4100 (6,80); 3,3312 (65,24); 3,0741 (16,00); 2,8911 (0,91); 2,7321 (0,72); 2,5253 (0,67); 2,5119 (13,07); 2,5076 (25,52); 2,5030 (33,26); 2,4985 (24,41); 2,4941 (11,98); -0,0002 (5,84)

Ejemplo 135, Disolvente: DMSO, Espectrómetro: 400,13 MHz

9,7994 (1,17); 7,9562 (0,46); 7,7879 (0,36); 7,7672 (0,81); 7,7492 (0,90); 7,7326 (1,08); 7,7138 (0,48); 7,6212 (1,23); 7,6039 (1,49); 7,6000 (1,17); 7,4966 (0,72); 7,4822 (0,54); 7,4789 (0,74); 7,4606 (1,25); 7,4417 (1,39); 7,4245 (0,53); 7,4207 (0,36); 7,1002 (0,73); 7,0834 (0,68);

5,2749 (2,71); 2,8902 (2,75); 2,7331 (2,41); 2,5106 (1,90); 2,5063 (2,63); 2,5021 (2,11); 1,4645 (16,00)
Ejemplo 136. Disolvente: DMSO. Espectrómetro: 400,13 MHz
7,7386 (7,06); 7,7194 (7,83); 7,5623 (1,43); 7,5440 (3,55); 7,5268 (3,76); 7,4980 (6,64); 7,4791 (7,19); 7,4584 (3,89); 7,4491 (2,27); 7,4371 (2,93); 7,4295 (3,06); 7,4180 (1,98); 7,4101 (1,94); 7,3781 (9,20); 7,3675 (8,11); 7,3352 (13,24); 7,3215 (2,70); 7,3138 (2,77); 7,2998 (2,34); 7,0484 (0,99); 7,0341 (1,89); 7,0195 (0,95); 6,9628 (1,01); 6,9490 (1,96); 6,9344 (0,99); 6,7934 (1,31); 6,7841 (2,50); 6,7748 (1,34); 6,5917 (2,68); 6,5833 (3,05); 6,5748 (2,80); 6,5661 (2,71); 6,4748 (2,59); 6,4548 (2,97); 6,4406 (2,08); 5,7694 (4,38); 5,2201 (9,46); 5,2111 (8,76); 5,1866 (0,43); 5,1027 (8,78); 5,0127 (9,99); 4,1298 (2,33); 4,1182 (3,52); 4,1069 (2,32); 3,9865 (2,39); 3,9731 (4,39); 3,9595 (2,38); 3,3566 (261,77); 3,0785 (16,00); 3,0673 (14,86); 2,6802 (0,64); 2,5109 (112,20); 2,3375 (0,71); 1,9968 (0,47); 1,2410 (1,10); 1,1970 (0,52); 1,1808 (0,42)
Ejemplo 137. Disolvente: DMSO. Espectrómetro: 399,95 MHz
9,5609 (1,79); 7,9684 (1,41); 7,9489 (1,96); 7,8400 (1,34); 7,8209 (1,73); 7,8005 (1,10); 7,7295 (1,84); 7,7268 (2,44); 7,7229 (1,15); 7,7142 (0,72); 7,7091 (3,30); 7,7053 (2,26); 7,5658 (0,46); 7,5539 (0,33); 7,5475 (1,56); 7,5418 (0,45); 7,5326 (0,83); 7,5292 (1,37); 7,5258 (0,68); 7,4984 (2,27); 7,4950 (0,94); 7,4831 (1,54); 7,4793 (2,95); 7,4658 (0,45); 7,4617 (1,19); 7,4584 (0,65); 7,1598 (1,66); 7,1425 (1,61); 5,3806 (6,19); 3,3343 (88,20); 3,0852 (16,00); 2,8907 (0,83); 2,7320 (0,65); 2,7310 (0,64); 2,5252 (0,49); 2,5204 (0,83); 2,5119 (10,80); 2,5073 (21,58); 2,5027 (28,42); 2,4981 (20,44); 2,4935 (9,57); 1,4156 (10,91); 1,1357 (0,90); 1,1262 (2,74); 1,1193 (2,82); 1,1102 (0,97); 0,6700 (1,20); 0,6606 (3,75); 0,6536 (3,64); 0,6438 (1,02); -0,0002 (4,44)
Ejemplo 138. Disolvente: DMSO. Espectrómetro: 399,95 MHz
9,3214 (4,34); 7,9528 (0,64); 7,8496 (0,82); 7,8288 (1,76); 7,8212 (0,36); 7,8107 (2,04); 7,7894 (1,01); 7,7689 (0,50); 7,7356 (0,75); 7,7272 (3,86); 7,7143 (1,32); 7,7092 (4,15); 7,7061 (3,82); 7,5502 (0,73); 7,5466 (0,64); 7,5390 (1,03); 7,5317 (1,96); 7,5255 (0,93); 7,5214 (0,88); 7,5167 (1,07); 7,5133 (1,47); 7,5101 (0,86); 7,5043 (0,51); 7,4953 (1,42); 7,4917 (0,70); 7,4852 (0,75); 7,4798 (1,52); 7,4753 (3,64); 7,4585 (2,46); 7,4551 (3,67); 7,4412 (0,57); 7,4372 (1,40); 7,4346 (1,10); 7,4021 (0,63); 7,3839 (0,77); 7,3816 (0,78); 7,3634 (0,67); 7,2262 (0,36); 7,1755 (1,67); 7,1702 (0,53); 7,1564 (1,81); 7,1539 (2,14); 7,1411 (0,58); 7,1359 (1,67); 7,1106 (1,67); 7,0906 (1,59); 6,7768 (0,75); 6,7742 (0,60); 6,7586 (3,42); 6,7560 (3,28); 6,7370 (3,18); 6,5114 (0,86); 6,4936 (0,82); 6,3910 (0,88); 6,3707 (0,84); 6,0040 (1,40); 5,3782 (0,80); 5,3568 (5,89); 5,3350 (0,50); 5,1786 (3,26); 3,6697 (0,72); 3,3651 (0,33); 3,3346 (122,05); 3,0915 (2,64); 3,0877 (8,10); 3,0806 (1,02); 3,0724 (16,00); 3,0607 (1,07); 2,9337 (0,41); 2,8904 (5,29); 2,7312 (4,16); 2,6719 (0,33); 2,5251 (0,95); 2,5203 (1,57); 2,5118 (19,46); 2,5073 (38,76); 2,5027 (51,18); 2,4981 (37,17); 2,4936 (17,78); 2,3295 (0,33); 1,2343 (0,35); -0,0002 (6,98)
Ejemplo 139. Disolvente: DMSO. Espectrómetro: 400,13 MHz
9,8766 (0,82); 8,0302 (0,60); 8,0096 (0,74); 7,8519 (0,47); 7,8325 (0,65); 7,8124 (0,41); 7,6227 (0,35); 7,6169 (0,33); 7,6073 (0,42); 7,6020 (0,38); 7,5973 (0,42); 7,5909 (0,79); 7,5877 (0,75); 7,5458 (0,40); 7,5314 (0,42); 7,4130 (0,32); 7,1691 (0,67); 7,1508 (0,63); 5,7692 (0,38); 5,4057 (2,29); 3,3933 (0,38); 3,3440 (19,84); 3,0759 (5,46); 2,5592 (0,39); 2,5321 (0,47); 2,5186 (7,96); 2,5144 (16,08); 2,5099 (21,64); 2,5055 (15,59); 2,5012 (7,37); 2,4607 (0,32); 1,2391 (16,00)
Ejemplo 140. Disolvente: DMSO. Espectrómetro: 400,13 MHz
10,5354 (2,37); 8,0859 (1,40); 8,0651 (1,66); 7,8428 (1,32); 7,8234 (1,94); 7,8033 (1,23); 7,6261 (0,71); 7,6221 (1,05); 7,6166 (0,99); 7,6071 (1,24); 7,6035 (1,11); 7,6015 (1,13); 7,5969 (1,29); 7,5905 (2,43); 7,5876 (2,31); 7,5656 (0,79); 7,5515 (0,87); 7,5455 (1,19); 7,5311 (1,25); 7,5261 (0,64); 7,5105 (0,56); 7,4358 (0,56); 7,4331 (0,62); 7,4296 (0,57); 7,4267 (0,53); 7,4118 (1,00); 7,4082 (0,89); 7,3936 (0,45); 7,3909 (0,47); 7,3875 (0,43); 7,3849 (0,38); 7,1570 (2,00); 7,1388 (1,90); 5,7688 (0,56); 5,3810 (6,74); 3,4004 (0,34); 3,3503 (27,17); 3,0553 (16,00); 2,5186 (7,86); 2,5145 (15,63); 2,5101 (20,87); 2,5057 (15,18); 2,4070 (1,91); 2,3887 (3,50); 2,3701 (2,06); 1,5946 (0,49); 1,5764 (1,45); 1,5577 (2,04); 1,5392 (1,53); 1,5202 (0,60); 1,3689 (0,44); 1,3480 (0,33); 1,3294 (1,18); 1,3105 (1,90); 1,2918 (1,90); 1,2736 (1,13); 1,2555 (0,34); 0,9042 (4,19); 0,8859 (8,38); 0,8675 (3,52)
Ejemplo 141. Disolvente: DMSO. Espectrómetro: 400,13 MHz
8,0012 (0,53); 7,9817 (0,34); 7,4837 (0,42); 7,4665 (0,55); 7,4474 (0,51); 7,4389 (0,48); 7,4274 (0,40); 7,4191 (0,45); 7,3333 (0,33); 7,3321 (0,34); 7,3009 (0,40); 7,2951 (0,47); 7,2910 (0,32); 5,8270 (3,36); 5,4783 (1,27); 3,8397 (3,61); 3,4023 (0,92); 3,1102 (3,32); 2,5841 (0,35); 2,5753 (3,05); 2,5709 (6,29); 2,5664 (8,57); 2,5619 (6,29); 2,5575 (3,16); 1,4626 (0,32); 1,4540 (0,53); 1,4277 (0,56); 1,4127 (16,00)
Ejemplo 142. Disolvente: DMSO. Espectrómetro: 300,16 MHz
9,9207 (1,35); 7,8411 (0,82); 7,8200 (1,98); 7,5956 (1,21); 7,5715 (0,53); 7,5558 (0,46); 7,4284 (1,27); 7,4118 (1,51); 7,1316 (0,58); 7,1251 (0,56); 7,1112 (0,54); 7,1049 (0,54); 5,3722 (2,91); 3,3955 (6,45); 3,1134 (5,84); 2,5655 (25,41); 2,3954 (4,77); 1,5257 (16,00)
Ejemplo 143. Disolvente: DMSO. Espectrómetro: 399,95 MHz
12,8077 (1,19); 8,4458 (1,46); 8,4417 (2,61); 8,4376 (1,47); 8,0836 (0,87); 8,0811 (1,17); 8,0771 (0,91); 8,0641 (0,97); 8,0615 (1,19); 8,0601 (1,17); 8,0574 (0,94); 8,0075 (0,87); 8,0050 (1,09); 8,0012 (0,84); 7,9879 (0,96); 7,9852 (1,13); 7,9841 (1,15); 7,9817 (0,86); 7,9533 (0,35); 7,7500 (1,92); 7,7472 (2,58); 7,7432 (1,25); 7,7349 (0,77); 7,7297 (3,37); 7,7259 (2,36); 7,5685 (0,46); 7,5501 (1,63); 7,5442 (0,49); 7,5355 (0,91); 7,5321 (1,50); 7,5285 (0,75); 7,5078 (2,44); 7,5044 (1,05); 7,4929 (1,53); 7,4889 (3,00); 7,4755 (0,48); 7,4713 (1,23); 7,4677 (0,71); 7,3930 (3,28); 7,3685 (1,40); 7,3489 (2,57); 7,3293 (1,27); 5,3839 (5,38); 3,3336 (58,22); 3,0204 (16,00); 2,8913 (2,75); 2,7326 (2,25); 2,7314 (2,13); 2,5259 (0,59); 2,5210 (0,97); 2,5125 (12,27); 2,5080 (24,58); 2,5034 (32,37); 2,4988 (23,49); 2,4942 (11,18); -0,0002 (6,97)
Ejemplo 144. Disolvente: DMSO. Espectrómetro: 399,95 MHz
10,7760 (2,24); 8,1665 (1,64); 8,1460 (1,99); 7,9514 (3,83); 7,9307 (3,59); 7,9126 (1,28); 7,8932 (1,80); 7,8730 (1,17); 7,7392 (2,03); 7,7368 (2,57); 7,7330 (1,24); 7,7242 (0,77); 7,7190 (3,36); 7,7153 (2,37); 7,5669 (0,47); 7,5551 (0,34); 7,5486 (1,65); 7,5428 (0,48); 7,5336 (0,88); 7,5303 (1,44); 7,5269 (0,72); 7,5005 (2,40); 7,4972 (1,03); 7,4852 (1,63); 7,4814 (3,09); 7,4679 (0,47); 7,4638 (1,22); 7,4605 (0,69); 7,3221 (2,78); 7,3022 (2,64); 7,2180 (1,81); 7,1996 (1,76); 5,4154 (6,26); 3,3274 (26,08); 3,0820 (16,00); 2,8906 (5,83); 2,7320 (4,83); 2,7309 (4,48); 2,5249 (0,62); 2,5200 (0,95); 2,5115 (11,35); 2,5070 (22,54); 2,5024 (29,51); 2,4978 (21,28); 2,4933 (10,05); 2,3820 (9,07); 0,0080 (0,39); -

0,0002 (11,73); -0,0085 (0,35)
Ejemplo 145, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2168 (2,70); 7,9531 (1,06); 7,8111 (0,84); 7,7903 (1,73); 7,7721 (1,81); 7,7448 (2,06); 7,7213 (3,16); 7,7082 (0,87); 7,7033 (3,55); 7,6995 (2,49); 7,5627 (0,50); 7,5597 (0,33); 7,5508 (0,38); 7,5443 (1,72); 7,5388 (0,52); 7,5294 (0,93); 7,5262 (1,48); 7,5229 (0,77); 7,4952 (2,56); 7,4797 (1,74); 7,4760 (3,26); 7,4624 (0,51); 7,4584 (1,27); 7,4553 (0,73); 7,3365 (0,59); 7,3230 (10,19); 7,3156 (4,69); 7,3091 (4,05); 7,2942 (0,40); 7,2883 (0,61); 7,2473 (0,38); 7,2388 (0,87); 7,2319 (0,95); 7,2251 (1,17); 7,2172 (0,97); 7,2100 (0,63); 7,2031 (0,48); 7,0974 (1,68); 7,0958 (1,71); 7,0795 (1,65); 7,0778 (1,59); 5,3271 (6,50); 4,2373 (0,82); 4,2206 (0,85); 4,2107 (1,50); 4,1939 (1,60); 4,1628 (1,50); 4,1452 (1,50); 4,1363 (0,84); 4,1185 (0,84); 3,3406 (110,56); 3,1332 (0,56); 3,1158 (1,17); 3,0985 (1,16); 3,0811 (0,62); 3,0707 (0,48); 3,0575 (16,00); 2,8906 (8,37); 2,7315 (6,74); 2,5256 (0,61); 2,5123 (11,84); 2,5078 (23,42); 2,5032 (30,78); 2,4987 (22,39); 2,4942 (10,74); 1,2814 (6,61); 1,2638 (6,42); 1,2341 (0,38); -0,0002 (2,62)
Ejemplo 146, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,3818 (2,06); 8,0962 (1,40); 8,0757 (1,65); 7,9536 (0,91); 7,8276 (1,26); 7,8084 (1,74); 7,7881 (1,21); 7,7257 (2,07); 7,7233 (2,63); 7,7195 (1,31); 7,7105 (0,82); 7,7055 (3,58); 7,7017 (2,45); 7,5629 (0,49); 7,5509 (0,36); 7,5446 (1,67); 7,5389 (0,53); 7,5296 (0,87); 7,5262 (1,43); 7,5228 (0,73); 7,4943 (2,46); 7,4909 (1,05); 7,4789 (1,70); 7,4752 (3,19); 7,4616 (0,51); 7,4575 (1,28); 7,4543 (0,72); 7,1423 (1,77); 7,1247 (1,72); 5,3537 (6,07); 4,0414 (0,85); 4,0236 (0,86); 3,3291 (57,76); 3,0882 (0,54); 3,0529 (16,00); 2,8912 (7,65); 2,7324 (6,12); 2,7314 (5,78); 2,5254 (0,58); 2,5206 (0,91); 2,5121 (11,85); 2,5076 (23,77); 2,5030 (31,40); 2,4984 (22,77); 2,4938 (10,80); 2,1529 (5,48); 2,0176 (1,69); 1,9178 (2,86); 1,6667 (1,21); 1,6366 (2,71); 1,6109 (7,81); 1,6055 (7,95); 1,5610 (2,66); 1,2831 (0,33); 1,2352 (0,33); 1,1917 (0,93); 1,1739 (1,88); 1,1561 (0,91); 0,8758 (0,58); 0,8625 (0,33); -0,0002 (6,70)
Ejemplo 147, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,9704 (0,36); 10,4304 (2,10); 8,0659 (1,50); 8,0454 (1,81); 7,9529 (0,46); 7,8238 (1,30); 7,8045 (1,86); 7,7843 (1,20); 7,7229 (2,66); 7,7100 (0,84); 7,7050 (3,49); 7,7012 (2,46); 7,5644 (0,48); 7,5526 (0,38); 7,5461 (1,72); 7,5405 (0,50); 7,5312 (0,91); 7,5279 (1,45); 7,5246 (0,77); 7,4971 (2,47); 7,4815 (1,76); 7,4779 (3,20); 7,4642 (0,54); 7,4602 (1,29); 7,4571 (0,72); 7,1333 (1,90); 7,1150 (1,84); 5,3533 (6,54); 3,3413 (110,17); 3,0575 (16,00); 2,8912 (3,64); 2,7322 (2,97); 2,5260 (0,93); 2,5125 (13,33); 2,5081 (25,98); 2,5035 (33,74); 2,4989 (24,85); 2,4945 (12,02); 2,4717 (0,56); 2,1829 (0,57); 2,1739 (0,42); 1,7926 (1,41); 1,7734 (1,25); 1,7574 (1,49); 1,7363 (0,78); 1,7133 (1,18); 1,6766 (0,48); 1,6692 (0,67); 1,6595 (0,74); 1,6472 (1,22); 1,6404 (1,12); 1,5845 (0,37); 1,5584 (0,35); 1,4195 (0,37); 1,3890 (1,02); 1,3595 (1,21); 1,3345 (1,05); 1,2999 (0,93); 1,2800 (1,00); 1,2561 (1,61); 1,2328 (1,38); 1,2257 (1,87); 1,1971 (1,71); 1,1755 (0,81); 1,1456 (0,56)
Ejemplo 148, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8673 (1,22); 8,0280 (0,79); 8,0071 (0,99); 7,8490 (0,51); 7,8296 (0,88); 7,8096 (0,45); 7,7332 (1,37); 7,7139 (1,59); 7,5537 (0,67); 7,5359 (0,65); 7,5048 (1,14); 7,4857 (1,46); 7,4668 (0,56); 7,1608 (0,90); 7,1422 (0,87); 5,3883 (3,07); 4,0449 (0,84); 4,0271 (0,85); 3,3422 (15,57); 3,0829 (5,43); 2,5104 (12,92); 1,9970 (3,42); 1,2408 (16,00); 1,2104 (0,39); 1,1994 (0,97); 1,1816 (1,80); 1,1638 (0,91)
Ejemplo 149, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1013 (2,94); 7,8300 (0,34); 7,8089 (2,20); 7,8021 (2,37); 7,7952 (5,34); 7,7811 (0,55); 7,4210 (1,01); 7,4010 (2,16); 7,3810 (1,59); 7,2843 (1,41); 7,2829 (1,43); 7,2806 (1,29); 7,2674 (0,81); 7,2635 (1,23); 7,2612 (1,04); 7,2457 (1,56); 7,2398 (1,98); 7,2356 (1,44); 7,1433 (1,06); 7,1413 (1,12); 7,1369 (1,02); 7,1350 (0,99); 7,1227 (0,99); 7,1206 (0,97); 7,1162 (1,03); 7,1144 (0,97); 7,1009 (1,29); 7,0939 (1,29); 7,0872 (1,14); 7,0802 (1,26); 5,7687 (0,43); 5,3307 (5,86); 4,9258 (0,42); 4,9130 (0,56); 4,9102 (0,56); 4,9042 (0,55); 4,8976 (0,57); 4,8916 (0,58); 4,8890 (0,58); 4,8762 (0,46); 3,7889 (16,00); 3,7665 (0,33); 3,3998 (0,86); 3,3496 (73,70); 3,3263 (1,03); 3,2994 (0,68); 3,0617 (14,72); 2,5189 (7,09); 2,5145 (14,73); 2,5100 (20,22); 2,5055 (14,96); 2,5011 (7,60); 2,4646 (0,38); 2,4604 (0,36); 1,6952 (0,45); 1,6763 (0,57); 1,6596 (0,56); 1,6432 (0,36); 1,5914 (0,50); 1,5767 (0,41); 1,5700 (0,53); 1,5569 (0,83); 1,5424 (0,58); 1,5357 (0,68); 1,5210 (0,53); 1,3563 (0,60); 1,3439 (0,67); 1,3361 (0,58); 1,3229 (0,90); 1,3096 (0,50); 1,3017 (0,50); 1,2893 (0,45); 1,2349 (6,21); 1,2193 (6,25); 0,9022 (8,57); 0,9003 (8,65); 0,8857 (8,73); 0,8840 (8,67)
Ejemplo 150, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7624 (1,72); 7,6204 (1,22); 7,6135 (1,44); 7,6094 (1,46); 7,5993 (1,11); 7,5894 (3,38); 7,5669 (0,91); 7,5528 (0,99); 7,5467 (1,29); 7,5324 (1,29); 7,5277 (0,82); 7,5116 (0,57); 7,4290 (0,71); 7,4263 (0,71); 7,4230 (0,65); 7,4201 (0,60); 7,4055 (1,11); 7,4010 (0,99); 7,3868 (0,51); 7,3834 (0,54); 7,3781 (0,42); 7,2771 (4,69); 5,3063 (6,66); 4,1630 (2,10); 4,1463 (4,45); 4,1296 (2,18); 3,8448 (0,41); 3,4517 (0,41); 3,4024 (4,01); 3,3520 (239,49); 3,3008 (3,74); 3,0281 (16,00); 2,5629 (0,48); 2,5584 (0,73); 2,5541 (0,67); 2,5165 (16,72); 2,5125 (32,52); 2,5081 (43,23); 2,5037 (32,17); 2,4663 (0,80); 2,4614 (0,88); 2,4568 (1,02); 2,4523 (0,93); 1,9939 (0,36); 1,6609 (0,34); 1,6434 (1,15); 1,6262 (1,84); 1,6090 (1,32); 1,5917 (0,48); 1,3403 (1,18); 1,3309 (2,37); 1,3225 (4,01); 1,3132 (4,03); 1,3043 (2,69); 1,2956 (1,44); 1,2706 (0,71); 1,2614 (0,79); 1,2477 (1,74); 0,8969 (2,16); 0,8795 (6,51); 0,8618 (3,91); 0,8443 (1,16)
Ejemplo 151, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2568 (1,94); 8,1284 (0,84); 8,1089 (1,79); 8,0894 (1,18); 7,9532 (1,46); 7,9072 (1,50); 7,8877 (1,31); 7,8226 (0,43); 7,8016 (1,32); 7,7844 (2,46); 7,7789 (1,82); 7,7618 (0,63); 7,7224 (2,04); 7,7045 (2,68); 7,7009 (1,95); 7,6827 (2,12); 7,6646 (2,48); 7,6613 (1,94); 7,6533 (0,41); 7,5888 (1,38); 7,5700 (1,41); 7,5630 (0,54); 7,5598 (0,47); 7,5498 (0,81); 7,5448 (1,43); 7,5386 (0,70); 7,5305 (1,83); 7,5265 (1,57); 7,5126 (1,12); 7,4958 (2,01); 7,4801 (1,54); 7,4765 (2,51); 7,4631 (0,72); 7,4589 (1,15); 7,4558 (0,79); 7,4437 (1,80); 7,4240 (2,38); 7,4096 (0,72); 7,4055 (1,15); 7,2472 (0,39); 7,2327 (1,41); 7,2243 (8,72); 7,2226 (8,67); 7,2072 (16,00); 7,1951 (2,36); 7,1928 (2,31); 7,1048 (1,03); 7,1010 (1,04); 7,0882 (1,09); 7,0844 (1,03); 6,8776 (2,47); 6,8743 (2,20); 6,8584 (1,24); 6,8007 (0,73); 6,7966 (0,75); 6,7921 (0,63); 6,7797 (0,80); 6,7734 (0,69); 5,5347 (4,39); 5,5234 (0,68); 5,3310 (4,64); 5,3194 (0,69); 4,3017 (1,16); 4,2846 (2,66); 4,2675 (1,36); 3,7328 (12,41); 3,7208 (1,23); 3,3357 (173,12); 3,3243 (22,80); 3,0879 (0,74); 3,0615 (11,06); 3,0496 (1,42); 3,0363 (11,02); 3,0244 (1,26); 2,9232 (1,11); 2,9060 (2,41); 2,8905 (11,62); 2,8787 (1,31); 2,7311 (8,84); 2,7192 (0,91); 2,6720 (0,39); 2,5117 (24,10); 2,5074 (45,12); 2,5028 (58,63); 2,4983 (44,65); 2,4939 (25,55); 2,3297 (0,36); 1,2353 (0,39); -0,0002 (3,12)

Ejemplo 152, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8500 (1,17); 7,7865 (0,75); 7,7690 (0,88); 7,7565 (1,08); 7,7379 (0,50); 7,7277 (1,20); 7,7097 (1,42); 7,7060 (1,09); 7,5572 (0,69); 7,5392 (0,62); 7,5115 (1,08); 7,4923 (1,32); 7,4742 (0,63); 7,4723 (0,63); 7,4608 (0,39); 7,4494 (0,48); 7,4380 (0,45); 7,3483 (0,41); 7,3268 (0,57); 7,0734 (0,64); 7,0712 (0,66); 7,0562 (0,63); 7,0539 (0,62); 5,3333 (2,74); 3,5265 (0,35); 3,5084 (1,15); 3,4902 (1,19); 3,4722 (0,39); 3,3453 (22,18); 3,3219 (0,40); 2,5150 (8,47); 2,5107 (11,39); 2,5064 (8,66); 1,9976 (0,71); 1,4671 (16,00); 1,1820 (0,37); 1,0658 (1,28); 1,0478 (2,81); 1,0296 (1,29)
Ejemplo 153, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6140 (0,42); 10,5013 (1,85); 8,1623 (0,34); 8,1414 (0,40); 8,0435 (1,35); 8,0227 (1,52); 7,9531 (0,49); 7,8376 (1,51); 7,8182 (1,83); 7,7983 (1,11); 7,7252 (2,66); 7,7230 (2,94); 7,7050 (3,90); 7,7013 (2,48); 7,5680 (0,33); 7,5651 (0,59); 7,5620 (0,39); 7,5532 (0,44); 7,5467 (2,08); 7,5411 (0,61); 7,5318 (1,09); 7,5285 (1,74); 7,5252 (0,89); 7,4979 (3,00); 7,4821 (2,09); 7,4786 (3,83); 7,4649 (0,59); 7,4609 (1,45); 7,4578 (0,82); 7,1591 (0,46); 7,1479 (1,80); 7,1299 (1,69); 5,3662 (1,69); 5,3578 (6,59); 5,3316 (0,36); 5,3282 (0,46); 5,3247 (0,42); 5,3136 (0,72); 5,3102 (0,90); 5,3067 (0,70); 5,2956 (0,39); 5,2922 (0,44); 5,2889 (0,33); 3,3428 (149,21); 3,1358 (1,85); 3,1178 (1,81); 3,0690 (0,34); 3,0561 (16,00); 2,8912 (3,85); 2,7321 (3,12); 2,5357 (0,39); 2,5258 (0,83); 2,5126 (14,94); 2,5081 (29,45); 2,5036 (38,64); 2,4990 (28,03); 2,4945 (13,33); 1,7118 (0,83); 1,6998 (6,01); 1,6979 (5,93); 1,6335 (6,78); 1,5716 (0,89); 1,2939 (1,08); 1,0457 (2,97); 1,0288 (2,90); -0,0002 (4,84)
Ejemplo 154, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,8962 (1,28); 7,7434 (1,36); 7,7246 (1,52); 7,5551 (0,66); 7,5374 (0,68); 7,5120 (1,16); 7,4928 (1,43); 7,4746 (0,54); 7,2893 (1,70); 5,3425 (2,96); 3,3434 (23,50); 3,0088 (5,43); 2,5109 (19,23); 1,2319 (16,00)
Ejemplo 155, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5650 (1,08); 7,9538 (0,99); 7,7368 (2,77); 7,7329 (1,34); 7,7241 (0,85); 7,7191 (3,52); 7,7153 (2,44); 7,5658 (0,49); 7,5543 (0,36); 7,5474 (1,71); 7,5416 (0,51); 7,5327 (0,96); 7,5293 (1,53); 7,5259 (0,77); 7,5029 (2,58); 7,4995 (1,11); 7,4877 (1,71); 7,4838 (3,20); 7,4703 (0,51); 7,4663 (1,26); 7,4628 (0,74); 7,3463 (4,44); 7,2683 (0,96); 7,2485 (2,03); 7,2276 (1,27); 7,1611 (1,14); 7,1564 (3,43); 7,1530 (4,31); 7,1368 (1,05); 7,1349 (1,09); 7,1327 (0,87); 6,9486 (1,01); 6,9440 (1,17); 6,9403 (0,95); 6,9276 (0,96); 6,9258 (0,97); 6,9215 (0,97); 6,9197 (0,88); 5,3438 (5,92); 5,1215 (0,40); 5,1050 (1,46); 5,0885 (1,47); 5,0721 (0,39); 3,3355 (43,51); 3,0149 (16,00); 2,8911 (7,80); 2,7329 (6,23); 2,7319 (6,31); 2,5263 (0,48); 2,5130 (8,25); 2,5085 (16,33); 2,5039 (21,44); 2,4993 (15,57); 2,4948 (7,44); 1,5457 (5,67); 1,5292 (5,62); -0,0002 (3,37)
Ejemplo 156, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2194 (2,13); 8,0945 (1,45); 8,0744 (1,77); 7,8905 (1,26); 7,8711 (1,77); 7,8510 (1,13); 7,7273 (1,91); 7,7246 (2,59); 7,7208 (1,24); 7,7119 (0,80); 7,7069 (3,44); 7,7031 (2,36); 7,5659 (0,49); 7,5539 (0,37); 7,5476 (1,62); 7,5419 (0,48); 7,5326 (0,86); 7,5293 (1,41); 7,5259 (0,72); 7,4971 (2,37); 7,4936 (1,01); 7,4816 (1,63); 7,4779 (3,06); 7,4643 (0,48); 7,4602 (1,23); 7,4571 (0,70); 7,3823 (0,60); 7,3674 (7,84); 7,3618 (3,51); 7,3530 (2,93); 7,3513 (3,54); 7,3458 (0,67); 7,3369 (0,52); 7,3336 (0,70); 7,3314 (0,82); 7,3117 (0,67); 7,3058 (0,87); 7,2985 (0,72); 7,2899 (0,82); 7,2803 (0,38); 7,2750 (0,33); 7,2003 (1,75); 7,1828 (1,68); 5,3733 (6,02); 4,5879 (1,41); 4,5586 (2,66); 4,4973 (2,65); 4,4680 (1,48); 4,2677 (0,40); 4,2512 (1,53); 4,2345 (1,55); 4,2179 (0,42); 3,3374 (102,65); 3,0625 (16,00); 2,8906 (1,22); 2,7321 (0,92); 2,7311 (0,96); 2,5255 (0,57); 2,5208 (0,91); 2,5122 (11,80); 2,5077 (23,81); 2,5031 (31,59); 2,4984 (23,00); 2,4939 (11,00); 1,3643 (5,95); 1,3476 (5,91); -0,0002 (1,54)
Ejemplo 157, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,8410 (0,48); 7,8218 (0,77); 7,8019 (0,57); 7,6923 (0,55); 7,6851 (3,99); 7,6802 (1,34); 7,6677 (1,45); 7,6628 (4,40); 7,6554 (0,54); 7,0545 (0,53); 7,0471 (4,16); 7,0422 (1,32); 7,0296 (1,29); 7,0248 (3,89); 7,0172 (0,46); 6,8597 (1,73); 6,8415 (1,42); 5,2972 (5,30); 3,8208 (16,00); 3,7716 (0,47); 3,6367 (0,75); 3,6188 (0,71); 3,0550 (0,56); 3,0434 (15,06); 2,5183 (7,32); 2,5142 (15,39); 2,5098 (21,16); 2,5054 (15,45); 1,2602 (0,34); 1,2444 (0,39)
Ejemplo 158, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,6738 (2,31); 7,9545 (3,14); 7,9353 (1,86); 7,7430 (1,97); 7,7404 (2,69); 7,7364 (1,29); 7,7279 (0,80); 7,7227 (3,49); 7,7189 (2,40); 7,5644 (0,47); 7,5530 (0,35); 7,5460 (1,68); 7,5401 (0,54); 7,5312 (1,33); 7,5280 (1,73); 7,5244 (1,06); 7,5183 (3,77); 7,5115 (2,42); 7,5029 (4,15); 7,4879 (1,66); 7,4839 (3,45); 7,4706 (0,52); 7,4664 (1,26); 7,4628 (0,71); 7,3942 (3,61); 7,2815 (0,90); 7,2743 (0,90); 7,2661 (0,77); 7,2617 (0,93); 7,2588 (0,88); 7,2548 (0,88); 7,2459 (0,73); 7,2389 (0,73); 5,3636 (5,71); 3,3280 (66,85); 3,0512 (16,00); 2,8901 (13,73); 2,7310 (10,63); 2,7305 (10,71); 2,5242 (0,78); 2,5193 (1,22); 2,5108 (14,68); 2,5063 (29,26); 2,5017 (38,58); 2,4971 (27,93); 2,4926 (13,22); 0,0079 (0,34); -0,0002 (9,89)
Ejemplo 159, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4204 (0,90); 7,7407 (3,17); 7,7229 (3,69); 7,7193 (2,84); 7,6158 (1,59); 7,6119 (1,72); 7,5961 (1,73); 7,5922 (1,77); 7,5674 (0,52); 7,5559 (0,38); 7,5488 (1,87); 7,5434 (0,59); 7,5311 (1,65); 7,5058 (2,97); 7,4864 (3,56); 7,4691 (1,29); 7,4660 (0,85); 7,3402 (5,55); 7,3197 (1,49); 7,3023 (0,98); 7,2985 (0,96); 7,0249 (1,83); 7,0066 (1,50); 7,0041 (1,59); 6,9432 (0,97); 6,9403 (1,00); 6,9238 (1,69); 6,9214 (1,65); 6,9051 (0,86); 6,9021 (0,84); 5,3429 (6,98); 4,9715 (7,89); 3,3432 (128,35); 3,0349 (16,00); 3,0233 (1,12); 2,5075 (28,50); 2,5030 (37,51); 2,4986 (28,09); 2,4944 (14,15); 2,2229 (0,46); -0,0002 (1,60)
Ejemplo 160, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,8369 (1,56); 7,7378 (1,60); 7,7349 (2,16); 7,7309 (1,01); 7,7226 (0,64); 7,7173 (2,88); 7,7136 (1,93); 7,5647 (0,40); 7,5465 (1,37); 7,5405 (0,40); 7,5317 (0,76); 7,5283 (1,26); 7,5247 (0,61); 7,5019 (2,03); 7,4985 (0,83); 7,4870 (1,30); 7,4830 (2,50); 7,4696 (0,39); 7,4655 (1,03); 7,4619 (0,54); 7,2695 (3,52); 5,3364 (4,71); 3,3293 (35,22); 2,9884 (13,82); 2,8909 (1,97); 2,7324 (1,59); 2,7311 (1,56); 2,5253 (0,45); 2,5206 (0,70); 2,5120 (9,18); 2,5074 (18,49); 2,5028 (24,47); 2,4981 (17,64); 2,4936 (8,27); 1,6349 (0,85); 1,6150 (0,75); 1,6052 (0,61); 1,5935 (1,00); 1,2519 (0,49); 1,2336 (1,26); 1,2150 (1,41); 1,1966 (1,13); 1,1830 (16,00); 1,1212 (0,34); 1,1095 (0,42); 1,1017 (0,70); 1,0936 (0,58); 1,0831 (0,72); 1,0742 (0,56); 1,0664 (0,41); 1,0608 (0,46); 0,8419 (2,99); 0,8239 (6,18); 0,8055 (2,43); -0,0002 (8,03)

Ejemplo 161, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9406 (2,10); 7,9128 (2,66); 7,7328 (1,48); 7,7061 (2,57); 7,6756 (2,97); 7,6512 (2,98); 7,6464 (3,09); 7,6288 (2,56); 7,3615 (2,79); 7,2652 (6,26); 7,1386 (2,32); 7,1116 (4,45); 7,0842 (2,21); 7,0246 (2,66); 7,0000 (2,47); 5,2881 (10,14); 4,2019 (2,57); 4,1799 (5,23); 4,1577 (2,69); 3,1032 (16,00); 2,0111 (5,35); 1,7072 (1,74); 1,6858 (2,72); 1,6644 (2,07); 1,6327 (10,56); 1,3657 (5,67); 1,3562 (5,80); 1,2538 (0,45); 0,9358 (2,93); 0,9175 (6,36); -0,0002 (2,29)
Ejemplo 162, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,7979 (1,40); 7,8362 (1,62); 7,8338 (1,77); 7,8180 (1,00); 7,7270 (1,29); 7,7141 (0,41); 7,7092 (1,65); 7,7055 (1,18); 7,5504 (0,79); 7,5354 (0,43); 7,5322 (0,68); 7,5289 (0,37); 7,5008 (1,19); 7,4853 (0,83); 7,4816 (1,51); 7,4639 (0,65); 7,4608 (0,41); 7,1546 (0,64); 7,1497 (0,61); 7,1387 (0,63); 7,1338 (0,62); 5,7666 (2,26); 5,3476 (3,10); 3,3401 (13,01); 3,0584 (7,68); 2,5301 (0,33); 2,5165 (7,09); 2,5122 (14,63); 2,5077 (19,78); 2,5032 (14,18); 2,4989 (6,70); 2,4701 (0,32); 1,4799 (16,00); 1,4489 (0,54)
Ejemplo 163, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7383 (2,71); 7,7257 (0,99); 7,7206 (3,40); 7,7168 (2,51); 7,5614 (0,51); 7,5582 (0,38); 7,5499 (0,42); 7,5431 (1,67); 7,5373 (0,61); 7,5283 (1,02); 7,5250 (1,54); 7,5216 (0,88); 7,4989 (2,58); 7,4836 (1,78); 7,4798 (3,19); 7,4664 (0,64); 7,4623 (1,28); 7,4589 (0,81); 7,3854 (1,22); 7,3673 (1,53); 7,3646 (1,53); 7,3466 (1,35); 6,5468 (0,66); 6,5332 (1,27); 6,5195 (0,71); 6,4895 (1,95); 6,4719 (1,90); 6,4059 (1,90); 6,3852 (1,87); 5,7595 (1,92); 5,2000 (6,69); 3,3207 (26,40); 3,2065 (0,92); 3,1892 (1,85); 3,1747 (1,86); 3,1575 (0,98); 3,0772 (16,00); 3,0516 (0,47); 2,5157 (7,56); 2,5113 (14,94); 2,5068 (20,08); 2,5023 (14,74); 2,4980 (7,57); 1,5122 (0,93); 1,4943 (1,51); 1,4769 (1,25); 1,4582 (0,55); 1,3430 (0,33); 1,3252 (0,87); 1,3042 (1,36); 1,2973 (1,36); 1,2867 (1,80); 1,2827 (1,83); 1,2711 (2,95); 1,2650 (4,03); 1,2586 (2,86); 0,8750 (1,85); 0,8582 (5,67); 0,8408 (2,18)
Ejemplo 164, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4389 (1,06); 7,9528 (1,21); 7,7388 (2,70); 7,7348 (1,29); 7,7262 (0,79); 7,7211 (3,47); 7,7172 (2,40); 7,5668 (0,48); 7,5554 (0,35); 7,5484 (1,69); 7,5425 (0,50); 7,5337 (0,93); 7,5303 (1,51); 7,5269 (0,76); 7,5047 (2,54); 7,5014 (1,08); 7,4896 (1,62); 7,4857 (3,14); 7,4723 (0,48); 7,4681 (1,23); 7,4646 (0,68); 7,3645 (0,37); 7,3555 (4,27); 7,3499 (1,34); 7,3384 (5,86); 7,3329 (4,92); 7,3240 (0,44); 7,0133 (0,44); 7,0044 (4,67); 6,9987 (1,31); 6,9874 (1,24); 6,9818 (4,12); 6,9728 (0,33); 5,3422 (5,94); 4,8586 (7,30); 3,3327 (63,87); 3,0226 (16,00); 2,8904 (9,87); 2,7317 (7,82); 2,7309 (7,72); 2,5249 (0,72); 2,5201 (1,13); 2,5116 (13,74); 2,5071 (27,47); 2,5025 (36,24); 2,4979 (26,26); 2,4934 (12,45); -0,0002 (3,18)
Ejemplo 165, Disolvente: DMSO, Espectrómetro: 399,95 MHz
8,2664 (2,30); 8,0307 (1,57); 8,0107 (1,97); 7,9530 (0,67); 7,8574 (1,31); 7,8380 (1,80); 7,8179 (1,14); 7,6823 (2,54); 7,6785 (1,23); 7,6696 (0,77); 7,6645 (3,45); 7,6608 (2,39); 7,5610 (0,50); 7,5488 (0,38); 7,5426 (1,63); 7,5371 (0,50); 7,5247 (2,61); 7,5214 (2,96); 7,5165 (0,73); 7,5043 (3,21); 7,5015 (2,76); 7,4945 (0,67); 7,4889 (2,41); 7,4854 (1,00); 7,4732 (1,70); 7,4696 (3,11); 7,4518 (2,07); 7,4501 (2,19); 7,4324 (3,32); 7,4284 (1,43); 7,4170 (0,90); 7,4135 (1,79); 7,3907 (0,78); 7,3871 (1,42); 7,3836 (0,77); 7,3753 (0,51); 7,3690 (1,60); 7,3624 (0,32); 7,3510 (0,47); 7,1435 (1,78); 7,1257 (1,70); 5,2672 (6,28); 3,3380 (136,98); 2,9697 (16,00); 2,8908 (5,49); 2,7313 (4,41); 2,5256 (0,64); 2,5208 (1,02); 2,5122 (13,67); 2,5077 (27,43); 2,5031 (36,24); 2,4985 (26,25); 2,4940 (12,46); 1,5356 (1,14); 1,5253 (3,03); 1,5180 (3,27); 1,5084 (1,26); 1,1924 (1,32); 1,1826 (3,22); 1,1753 (3,11); 1,1648 (1,11); -0,0002 (4,98)
Ejemplo 166, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5501 (2,03); 8,0599 (1,22); 8,0393 (1,45); 7,9534 (0,44); 7,8305 (1,29); 7,8112 (1,76); 7,7910 (1,16); 7,7266 (2,05); 7,7241 (2,63); 7,7202 (1,31); 7,7114 (0,89); 7,7063 (3,47); 7,7025 (2,39); 7,5647 (0,49); 7,5615 (0,32); 7,5528 (0,38); 7,5464 (1,65); 7,5407 (0,50); 7,5315 (0,93); 7,5281 (1,43); 7,5247 (0,74); 7,4971 (2,42); 7,4938 (1,06); 7,4817 (1,73); 7,4780 (3,09); 7,4644 (0,51); 7,4603 (1,25); 7,4571 (0,72); 7,1395 (1,79); 7,1220 (1,72); 5,3563 (6,32); 3,3289 (56,12); 3,0729 (0,34); 3,0531 (16,00); 2,8908 (3,54); 2,7321 (2,78); 2,7311 (2,79); 2,5252 (0,66); 2,5119 (11,40); 2,5074 (22,31); 2,5028 (29,21); 2,4982 (21,28); 2,4937 (10,21); 2,4667 (1,73); 2,4507 (1,38); 2,4472 (1,93); 2,4426 (1,27); 2,4273 (1,81); 1,5443 (1,77); 1,5289 (1,28); 1,5243 (1,88); 1,5049 (1,63); 1,0161 (12,01); 0,3017 (0,81); 0,2870 (3,12); 0,2784 (1,31); 0,2105 (1,59); 0,2019 (3,43); 0,1979 (2,76); 0,1869 (0,94); -0,0002 (7,31)
Ejemplo 167, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5191 (2,06); 8,0722 (1,29); 8,0515 (1,54); 7,8334 (1,30); 7,8141 (1,82); 7,7938 (1,19); 7,7237 (2,64); 7,7199 (1,26); 7,7110 (0,85); 7,7059 (3,48); 7,7022 (2,41); 7,5646 (0,49); 7,5527 (0,37); 7,5463 (1,67); 7,5406 (0,49); 7,5313 (0,92); 7,5280 (1,44); 7,5246 (0,73); 7,4970 (2,44); 7,4936 (1,04); 7,4815 (1,70); 7,4778 (3,15); 7,4643 (0,50); 7,4602 (1,25); 7,4570 (0,73); 7,1424 (1,83); 7,1241 (1,78); 5,8288 (0,61); 5,8200 (0,32); 5,8032 (0,93); 5,7861 (0,96); 5,7771 (0,36); 5,7693 (0,36); 5,7605 (0,72); 5,7438 (0,35); 5,3547 (6,44); 5,0386 (0,46); 5,0347 (1,07); 5,0294 (1,17); 5,0255 (0,52); 4,9957 (0,42); 4,9918 (0,97); 4,9865 (1,05); 4,9825 (0,47); 4,9614 (0,58); 4,9587 (1,12); 4,9559 (0,99); 4,9533 (0,96); 4,9504 (0,47); 4,9360 (0,56); 4,9332 (1,06); 4,9305 (0,94); 4,9278 (0,90); 4,9249 (0,44); 3,3316 (55,34); 3,0536 (16,00); 2,5255 (0,49); 2,5122 (10,21); 2,5077 (20,28); 2,5031 (26,66); 2,4985 (19,39); 2,4940 (9,34); 2,4075 (1,65); 2,3892 (3,19); 2,3707 (1,80); 2,0637 (0,63); 2,0459 (1,61); 2,0278 (1,67); 2,0101 (0,71); 1,6166 (0,38); 1,5984 (1,10); 1,5796 (1,50); 1,5606 (1,21); 1,5416 (0,52); 1,4055 (0,53); 1,3860 (1,32); 1,3740 (0,71); 1,3678 (1,66); 1,3485 (1,02); 1,3303 (0,34); -0,0002 (6,33)
Ejemplo 168, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3988 (3,23); 7,8325 (2,66); 7,8280 (2,70); 7,8199 (5,62); 7,8070 (0,37); 7,7283 (2,85); 7,7104 (3,50); 7,7067 (2,57); 7,5678 (0,49); 7,5556 (0,39); 7,5494 (1,74); 7,5440 (0,55); 7,5343 (0,95); 7,5313 (1,46); 7,5001 (2,59); 7,4808 (3,30); 7,4670 (0,58); 7,4631 (1,27); 7,4434 (0,94); 7,4387 (1,38); 7,4221 (3,80); 7,4186 (3,57); 7,4155 (3,08); 7,4131 (3,06); 7,4077 (0,72); 7,3956 (3,66); 7,3913 (1,23); 7,3766 (1,50); 7,3598 (0,81); 7,3554 (1,28); 7,3507 (0,64); 7,3455 (0,54); 7,3383 (1,27); 7,3213 (0,41); 7,1244 (1,33); 7,1162 (1,38); 7,1119 (1,20); 7,1036 (1,28); 5,3428 (7,01); 5,1856 (7,82); 3,4027 (0,64); 3,4003 (0,81); 3,3515 (109,79); 3,3027 (0,64); 3,2998 (0,47); 3,0703 (16,00); 2,5586 (0,43); 2,5319 (0,81); 2,5182 (17,55); 2,5141 (35,67); 2,5097 (48,03); 2,5054 (34,89); 2,4613 (0,41); 2,4576 (0,36); 1,9966 (0,63); 1,2515 (0,57); 1,1808 (0,33); 0,8643 (0,76)

Ejemplo 169, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1300 (1,69); 7,6226 (3,42); 7,6020 (3,93); 7,3078 (3,21); 7,2876 (2,83); 7,2488 (4,77); 5,2968 (6,30); 3,4115 (4,99); 3,3986 (0,39); 3,3615 (311,04); 3,3119 (1,57); 3,2615 (0,34); 2,9987 (16,00); 2,5622 (0,56); 2,5577 (0,71); 2,5533 (0,52); 2,5301 (0,86); 2,5164 (17,19); 2,5122 (34,56); 2,5078 (46,09); 2,5033 (33,23); 2,4992 (15,91); 2,4585 (0,33); 2,4287 (2,01); 2,4104 (3,66); 2,3916 (2,19); 2,3530 (9,91); 2,3347 (0,47); 2,3301 (0,34); 1,9936 (0,47); 1,6039 (0,49); 1,5856 (1,45); 1,5669 (2,00); 1,5483 (1,52); 1,5294 (0,60); 1,3376 (0,32); 1,3191 (1,18); 1,3002 (1,99); 1,2815 (2,12); 1,2632 (1,48); 1,2453 (1,39); 0,8946 (4,19); 0,8763 (8,85); 0,8609 (2,45); 0,8580 (3,91); 0,8438 (0,71)
Ejemplo 170, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,8542 (2,06); 8,0824 (1,56); 8,0624 (1,96); 7,9536 (0,38); 7,9015 (1,29); 7,8821 (1,84); 7,8620 (1,14); 7,7978 (2,41); 7,7937 (2,42); 7,7383 (1,95); 7,7359 (2,53); 7,7320 (1,25); 7,7232 (0,83); 7,7181 (3,37); 7,7143 (2,36); 7,5659 (0,48); 7,5541 (0,36); 7,5476 (1,64); 7,5418 (0,50); 7,5327 (0,90); 7,5293 (1,44); 7,5259 (0,75); 7,4993 (2,41); 7,4959 (1,08); 7,4840 (1,62); 7,4801 (3,09); 7,4666 (0,49); 7,4625 (1,23); 7,4592 (0,70); 7,2092 (1,76); 7,1914 (1,71); 6,6034 (2,47); 6,5995 (2,48); 5,3974 (6,35); 3,3312 (63,44); 3,0917 (16,00); 2,8911 (3,05); 2,7324 (2,43); 2,7314 (2,38); 2,5254 (0,60); 2,5206 (0,94); 2,5121 (11,56); 2,5076 (23,08); 2,5030 (30,37); 2,4984 (22,06); 2,4939 (10,54); 2,3490 (12,91); 2,2917 (0,43); 1,2864 (0,50); 0,8757 (0,49); -0,0002 (7,45)
Ejemplo 171, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,3285 (0,78); 7,9532 (0,64); 7,7436 (1,99); 7,7411 (2,68); 7,7371 (1,32); 7,7286 (0,79); 7,7235 (3,42); 7,7196 (2,40); 7,5665 (0,48); 7,5551 (0,34); 7,5481 (1,69); 7,5422 (0,50); 7,5335 (0,93); 7,5301 (1,53); 7,5266 (0,77); 7,5049 (2,55); 7,5016 (1,09); 7,4898 (1,60); 7,4858 (3,10); 7,4725 (0,48); 7,4683 (1,22); 7,4648 (0,68); 7,3320 (4,62); 7,0182 (0,93); 7,0143 (1,00); 6,9981 (1,90); 6,9943 (1,82); 6,9657 (0,88); 6,9613 (0,98); 6,9480 (1,19); 6,9437 (1,46); 6,9264 (1,19); 6,9235 (1,48); 6,9061 (2,27); 6,9019 (1,50); 6,8777 (1,37); 6,8737 (1,33); 6,8599 (1,04); 6,8564 (1,15); 6,8537 (0,76); 6,8399 (0,48); 6,8359 (0,48); 5,3424 (5,87); 4,8205 (7,49); 3,7826 (16,00); 3,3351 (33,96); 3,0278 (15,32); 3,0143 (0,35); 2,8899 (5,11); 2,7319 (4,05); 2,7310 (4,09); 2,5253 (0,33); 2,5205 (0,52); 2,5120 (6,64); 2,5075 (13,33); 2,5029 (17,62); 2,4983 (12,81); 2,4938 (6,12); -0,0002 (3,49)
Ejemplo 172, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5339 (4,60); 8,1018 (3,12); 8,0812 (3,70); 7,8447 (2,73); 7,8254 (3,85); 7,8052 (2,65); 7,7302 (5,81); 7,7175 (2,02); 7,7124 (7,41); 7,7087 (5,49); 7,6920 (0,36); 7,5781 (1,04); 7,5750 (0,78); 7,5664 (0,88); 7,5597 (3,57); 7,5541 (1,30); 7,5449 (2,12); 7,5416 (3,23); 7,5383 (1,88); 7,5128 (5,44); 7,4974 (3,73); 7,4937 (6,78); 7,4802 (1,29); 7,4761 (2,70); 7,4729 (1,68); 7,1465 (3,95); 7,1288 (3,77); 5,3725 (13,34); 5,3456 (0,42); 3,5039 (1,80); 3,4858 (5,88); 3,4676 (6,08); 3,4494 (1,97); 3,3912 (0,65); 3,3409 (43,04); 3,2907 (0,61); 2,7173 (0,66); 2,6973 (1,20); 2,6836 (1,59); 2,6798 (1,72); 2,6665 (0,88); 2,5696 (0,40); 2,5652 (0,88); 2,5608 (1,23); 2,5562 (0,91); 2,5516 (0,50); 2,5328 (1,90); 2,5193 (33,14); 2,5150 (69,27); 2,5105 (95,86); 2,5060 (71,93); 2,5016 (37,19); 2,4697 (1,83); 2,4650 (1,90); 2,4605 (1,93); 2,4559 (1,48); 2,3420 (0,50); 2,3374 (0,65); 2,3329 (0,49); 1,6154 (0,48); 1,6040 (0,62); 1,5956 (1,03); 1,5916 (0,90); 1,5815 (1,09); 1,5751 (1,27); 1,5699 (0,96); 1,5603 (1,26); 1,5394 (0,55); 1,3744 (0,48); 1,3451 (0,43); 1,3314 (0,93); 1,3193 (1,27); 1,3133 (0,94); 1,3063 (1,87); 1,2930 (2,04); 1,2870 (2,27); 1,2724 (3,51); 1,2619 (2,10); 1,2537 (3,00); 1,2384 (3,01); 1,2255 (1,23); 1,2207 (1,30); 1,2136 (0,94); 1,1807 (0,33); 1,1033 (0,37); 1,0903 (0,42); 1,0700 (13,27); 1,0582 (9,12); 1,0530 (15,18); 1,0403 (16,00); 1,0220 (7,07); 0,9902 (0,47); 0,8832 (6,32); 0,8653 (12,63); 0,8474 (5,25); 0,8151 (0,38)
Ejemplo 173, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4268 (0,85); 8,0973 (0,65); 8,0770 (0,77); 7,8320 (0,59); 7,8127 (0,78); 7,7924 (0,55); 7,7253 (0,86); 7,7226 (1,15); 7,7186 (0,54); 7,7100 (0,33); 7,7048 (1,57); 7,7011 (1,07); 7,5453 (0,75); 7,5303 (0,39); 7,5270 (0,66); 7,5235 (0,32); 7,4953 (1,08); 7,4918 (0,44); 7,4800 (0,73); 7,4762 (1,40); 7,4585 (0,58); 7,1465 (0,78); 7,1452 (0,79); 7,1280 (0,76); 7,1266 (0,73); 5,3564 (2,81); 3,3292 (22,20); 3,0495 (7,72); 2,8909 (2,42); 2,7323 (1,92); 2,7311 (1,89); 2,5206 (0,38); 2,5120 (5,12); 2,5075 (10,41); 2,5028 (13,85); 2,4982 (10,00); 2,4936 (4,73); 2,2811 (3,18); 1,0017 (16,00); -0,0002 (0,61)
Ejemplo 174, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,0174 (0,49); 10,9652 (2,77); 8,3621 (0,52); 8,3585 (0,37); 8,1522 (1,93); 8,1315 (2,48); 8,1187 (0,63); 7,9520 (1,28); 7,9233 (1,46); 7,9025 (5,11); 7,8812 (5,99); 7,8682 (1,35); 7,7992 (4,69); 7,7947 (2,16); 7,7826 (1,87); 7,7780 (3,76); 7,7644 (0,81); 7,7328 (3,18); 7,7150 (4,28); 7,7114 (3,40); 7,5664 (0,57); 7,5545 (0,53); 7,5480 (2,03); 7,5425 (0,92); 7,5299 (1,94); 7,4997 (2,99); 7,4804 (4,14); 7,4668 (1,49); 7,4629 (1,94); 7,3170 (0,51); 7,2339 (2,11); 7,2155 (2,23); 7,2036 (0,54); 5,4129 (7,30); 5,4004 (2,02); 3,3336 (259,50); 3,3254 (85,59); 3,2568 (0,38); 3,0748 (16,00); 3,0613 (3,35); 2,8906 (8,49); 2,8772 (1,53); 2,7508 (0,32); 2,7311 (7,17); 2,7175 (1,42); 2,6760 (0,42); 2,6715 (0,61); 2,6669 (0,52); 2,5244 (1,68); 2,5111 (31,96); 2,5068 (67,85); 2,5023 (96,64); 2,4978 (83,97); 2,4934 (59,44); 2,3335 (0,48); 2,3291 (0,67); 2,3245 (0,59); 1,2341 (0,71); 0,0080 (0,55); -0,0002 (16,64); -0,0084 (2,01); -0,0139 (2,74)
Ejemplo 175, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1866 (2,65); 7,9531 (0,97); 7,8234 (0,52); 7,8024 (1,91); 7,7867 (3,90); 7,7836 (2,80); 7,7670 (0,56); 7,7226 (2,65); 7,7188 (1,31); 7,7098 (0,80); 7,7048 (3,41); 7,7010 (2,41); 7,5633 (0,48); 7,5515 (0,36); 7,5449 (1,65); 7,5393 (0,49); 7,5300 (0,88); 7,5267 (1,43); 7,5234 (0,75); 7,4963 (2,45); 7,4809 (1,66); 7,4771 (3,12); 7,4635 (0,49); 7,4595 (1,22); 7,4563 (0,70); 7,2432 (0,55); 7,2390 (0,75); 7,2192 (3,18); 7,2006 (2,92); 7,1029 (1,35); 7,0982 (1,36); 7,0869 (1,23); 7,0822 (1,30); 6,9777 (1,59); 6,9580 (1,43); 6,9009 (0,95); 6,8985 (0,93); 6,8824 (1,72); 6,8802 (1,57); 6,8640 (0,79); 6,8616 (0,75); 5,3288 (6,32); 4,2549 (1,61); 4,2373 (3,54); 4,2196 (1,69); 3,7772 (16,00); 3,3389 (97,25); 3,0633 (15,72); 2,9347 (1,51); 2,9171 (3,04); 2,8995 (1,52); 2,8906 (7,73); 2,7322 (6,02); 2,7313 (6,13); 2,5256 (0,56); 2,5122 (11,48); 2,5077 (22,92); 2,5031 (30,26); 2,4985 (22,17); 2,4940 (10,74); -0,0002 (2,39)
Ejemplo 176, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5325 (4,18); 8,0778 (2,47); 8,0571 (2,95); 7,8416 (2,45); 7,8222 (3,52); 7,8021 (2,27); 7,7285 (5,15); 7,7157 (1,61); 7,7108 (6,55); 7,7070 (4,71); 7,5773 (0,91); 7,5741 (0,62); 7,5654 (0,75); 7,5589 (3,16); 7,5532 (1,01); 7,5440 (1,83); 7,5407 (2,80); 7,5375 (1,51); 7,5121 (4,79); 7,4967 (3,19); 7,4930 (5,96); 7,4794 (0,96); 7,4754 (2,26); 7,4721 (1,34); 7,1384 (3,59); 7,1205 (3,43); 5,3672 (12,41); 3,5051 (1,58); 3,4870

(5,34); 3,4688 (5,44); 3,4507 (1,66); 3,3929 (0,46); 3,3429 (38,50); 3,2931 (0,40); 2,6832 (0,41); 2,6787 (0,55); 2,6742 (0,40); 2,5641 (0,83); 2,5597 (1,13); 2,5553 (0,83); 2,5321 (1,45); 2,5185 (33,63); 2,5142 (70,52); 2,5097 (96,23); 2,5052 (69,78); 2,5009 (33,26); 2,4688 (0,65); 2,4644 (0,94); 2,4599 (1,16); 2,4554 (0,91); 2,4056 (3,54); 2,3873 (6,46); 2,3686 (3,85); 2,3410 (0,52); 2,3366 (0,71); 2,3321 (0,52); 1,5944 (0,88); 1,5762 (2,64); 1,5575 (3,67); 1,5391 (2,77); 1,5201 (1,13); 1,3728 (0,33); 1,3474 (0,61); 1,3288 (2,14); 1,3099 (3,42); 1,2911 (3,47); 1,2729 (2,15); 1,2548 (0,78); 1,2408 (0,39); 1,0603 (6,03); 1,0423 (13,70); 1,0240 (5,88); 0,9037 (7,83); 0,8854 (16,00); 0,8670 (6,78); 0,8512 (0,34)

Ejemplo 177, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,4940 (1,73); 8,0791 (1,46); 8,0588 (1,73); 7,8363 (1,30); 7,8170 (1,73); 7,7968 (1,18); 7,7266 (1,92); 7,7243 (2,52); 7,7204 (1,19); 7,7116 (0,75); 7,7065 (3,35); 7,7026 (2,29); 7,5652 (0,48); 7,5533 (0,35); 7,5468 (1,62); 7,5411 (0,46); 7,5319 (0,85); 7,5286 (1,39); 7,5252 (0,69); 7,4978 (2,35); 7,4944 (0,97); 7,4825 (1,58); 7,4787 (3,02); 7,4651 (0,46); 7,4611 (1,20); 7,4578 (0,65); 7,1433 (1,74); 7,1257 (1,68); 5,3595 (6,26); 3,3326 (58,89); 3,0590 (16,00); 2,8910 (1,13); 2,7735 (0,82); 2,7564 (1,15); 2,7393 (0,88); 2,7322 (0,95); 2,7223 (0,33); 2,5257 (0,50); 2,5208 (0,83); 2,5123 (9,61); 2,5078 (19,11); 2,5032 (25,17); 2,4986 (18,15); 2,4940 (8,58); 1,0854 (13,94); 1,0684 (13,71); 1,0488 (0,41); -0,0002 (0,91)

Ejemplo 178, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,1105 (2,12); 8,1675 (0,51); 8,1474 (0,58); 7,9532 (0,83); 7,9310 (1,18); 7,9115 (1,71); 7,8914 (1,06); 7,7368 (0,39); 7,7312 (2,06); 7,7284 (2,75); 7,7246 (1,48); 7,7159 (0,85); 7,7108 (3,55); 7,7070 (2,57); 7,5710 (1,12); 7,5671 (1,41); 7,5609 (0,50); 7,5524 (1,88); 7,5458 (2,62); 7,5406 (1,50); 7,5309 (1,41); 7,5274 (2,18); 7,5241 (2,81); 7,5212 (2,24); 7,5057 (1,23); 7,5014 (1,68); 7,4967 (2,69); 7,4933 (1,30); 7,4877 (1,92); 7,4816 (2,44); 7,4776 (3,38); 7,4678 (1,11); 7,4635 (1,23); 7,4599 (1,43); 7,4567 (0,80); 7,4411 (1,38); 7,4374 (1,30); 7,4227 (1,64); 7,4191 (1,67); 7,4044 (0,68); 7,4008 (0,62); 7,2419 (1,69); 7,2234 (1,60); 5,3769 (4,33); 3,3314 (18,88); 3,0797 (16,00); 3,0662 (0,84); 3,0592 (0,39); 2,8902 (6,68); 2,7320 (5,26); 2,7308 (5,21); 2,5251 (0,50); 2,5203 (0,77); 2,5117 (9,24); 2,5072 (18,61); 2,5026 (24,66); 2,4980 (17,91); 2,4934 (8,52); 1,2347 (0,46); 0,9274 (0,36); 0,9106 (0,36); -0,0002 (6,89)

Ejemplo 179, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,8683 (2,02); 8,0121 (1,14); 7,9916 (1,50); 7,9531 (0,80); 7,8734 (1,31); 7,8542 (1,74); 7,8339 (1,11); 7,7296 (1,95); 7,7271 (2,56); 7,7232 (1,23); 7,7144 (0,76); 7,7093 (3,42); 7,7055 (2,38); 7,5673 (0,49); 7,5554 (0,35); 7,5491 (1,64); 7,5434 (0,48); 7,5340 (0,85); 7,5307 (1,42); 7,5273 (0,72); 7,4982 (2,36); 7,4947 (0,99); 7,4827 (1,68); 7,4790 (3,08); 7,4653 (0,49); 7,4613 (1,27); 7,4581 (0,70); 7,2691 (0,77); 7,2488 (1,95); 7,2318 (0,43); 7,2276 (1,43); 7,2089 (1,74); 7,1914 (1,68); 7,1453 (3,72); 7,1413 (4,09); 7,1375 (1,20); 7,1265 (1,03); 7,1245 (1,07); 7,1223 (0,79); 7,1201 (0,60); 6,9514 (0,95); 6,9471 (1,32); 6,9429 (0,89); 6,9303 (0,89); 6,9283 (0,88); 6,9242 (0,89); 6,9223 (0,79); 5,3899 (5,81); 5,1185 (0,97); 5,1021 (0,98); 3,3336 (96,07); 3,0642 (16,00); 2,8909 (6,73); 2,7324 (5,27); 2,7313 (5,16); 2,5257 (0,66); 2,5209 (1,02); 2,5123 (13,79); 2,5077 (27,87); 2,5031 (36,97); 2,4985 (26,80); 2,4940 (12,70); 1,5333 (5,24); 1,5169 (5,22); -0,0002 (3,65)

Ejemplo 180, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,6387 (1,10); 8,0024 (3,31); 7,9817 (3,46); 7,9534 (1,30); 7,7464 (2,73); 7,7424 (1,31); 7,7339 (0,75); 7,7288 (3,40); 7,7249 (2,36); 7,5674 (0,46); 7,5561 (0,33); 7,5490 (1,67); 7,5431 (0,50); 7,5345 (0,92); 7,5310 (1,54); 7,5275 (0,78); 7,5068 (2,57); 7,5035 (1,10); 7,4918 (1,57); 7,4878 (3,11); 7,4745 (0,47); 7,4703 (1,22); 7,4667 (0,72); 7,3618 (4,47); 7,3566 (2,93); 7,3363 (2,54); 5,3801 (5,76); 3,3299 (37,79); 3,0182 (16,00); 2,8906 (10,49); 2,7313 (8,46); 2,5253 (0,56); 2,5205 (0,87); 2,5120 (10,77); 2,5075 (21,56); 2,5029 (28,46); 2,4983 (20,56); 2,4938 (9,71); 2,3857 (8,82); -0,0002 (7,41)

Ejemplo 181, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,4711 (2,24); 8,2403 (1,27); 8,2197 (1,46); 7,9535 (0,44); 7,9239 (1,22); 7,9043 (1,82); 7,8968 (1,39); 7,8923 (1,45); 7,8844 (1,25); 7,8775 (1,48); 7,8730 (1,42); 7,7447 (1,95); 7,7421 (2,54); 7,7381 (1,21); 7,7295 (0,81); 7,7244 (3,40); 7,7206 (2,31); 7,5964 (0,73); 7,5919 (0,72); 7,5781 (0,95); 7,5753 (1,12); 7,5739 (1,08); 7,5708 (1,07); 7,5668 (0,57); 7,5635 (0,38); 7,5572 (1,05); 7,5526 (1,08); 7,5485 (1,67); 7,5427 (0,49); 7,5336 (0,90); 7,5302 (1,45); 7,5268 (0,72); 7,5016 (2,35); 7,4981 (0,99); 7,4864 (1,59); 7,4825 (3,02); 7,4690 (0,48); 7,4649 (1,22); 7,4615 (0,67); 7,2578 (1,68); 7,2377 (1,50); 7,2228 (1,74); 7,2043 (1,69); 7,1388 (0,99); 7,1366 (0,95); 7,1198 (1,64); 7,1183 (1,58); 7,1013 (0,90); 7,0991 (0,83); 5,4054 (6,07); 3,9637 (13,31); 3,3374 (70,18); 3,1119 (16,00); 2,8910 (3,66); 2,7326 (2,89); 2,7316 (2,80); 2,5260 (0,49); 2,5212 (0,79); 2,5126 (9,51); 2,5081 (18,83); 2,5035 (24,63); 2,4989 (17,69); 2,4944 (8,33); -0,0002 (3,28)

Ejemplo 182, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1856 (0,61); 10,1708 (2,08); 7,8299 (0,39); 7,8088 (2,07); 7,8008 (1,98); 7,7943 (5,27); 7,7799 (0,39); 7,7219 (2,53); 7,7086 (0,83); 7,7038 (3,15); 7,7000 (2,27); 7,5625 (0,48); 7,5507 (0,37); 7,5442 (1,69); 7,5386 (0,50); 7,5293 (0,89); 7,5260 (1,43); 7,5227 (0,74); 7,4957 (2,45); 7,4801 (1,70); 7,4764 (3,15); 7,4627 (0,50); 7,4587 (1,21); 7,4555 (0,69); 7,1015 (1,27); 7,0948 (1,08); 7,0870 (1,13); 7,0808 (1,20); 5,3296 (5,58); 4,1394 (1,64); 4,1223 (3,47); 4,1053 (1,70); 3,9744 (0,34); 3,9590 (0,35); 3,9160 (0,35); 3,8994 (0,35); 3,3428 (190,68); 3,0647 (16,00); 2,8912 (0,69); 2,7321 (0,56); 2,5257 (0,80); 2,5124 (16,78); 2,5079 (33,61); 2,5033 (44,43); 2,4987 (32,45); 2,4943 (15,78); 1,7102 (0,62); 1,6935 (0,82); 1,6767 (0,71); 1,6601 (0,40); 1,5327 (0,98); 1,5156 (2,85); 1,4985 (2,56); 1,4814 (0,80); 1,2348 (0,32); 0,9270 (0,58); 0,9146 (15,37); 0,8980 (14,95); 0,8892 (1,21); 0,8826 (1,81); 0,8725 (0,88); 0,8639 (0,71); -0,0002 (5,02)

Ejemplo 183, Disolvente: DMSO, Espectrómetro: 400,13 MHz

11,4550 (1,75); 7,9097 (0,81); 7,8897 (1,65); 7,8706 (1,15); 7,7324 (2,64); 7,7197 (0,87); 7,7146 (3,39); 7,7109 (2,39); 7,5698 (0,50); 7,5667 (0,34); 7,5578 (0,39); 7,5516 (1,64); 7,5459 (0,50); 7,5366 (0,89); 7,5333 (1,40); 7,5300 (0,73); 7,5010 (2,35); 7,4854 (1,69); 7,4818 (3,05); 7,4681 (0,49); 7,4641 (1,20); 7,4610 (0,69); 7,2522 (1,52); 7,2320 (1,44); 5,3849 (6,33); 4,4679 (1,79); 4,4515 (3,80); 4,4352 (1,82); 3,3999 (2,05); 3,3497 (219,89); 3,3000 (1,99); 3,0666 (16,00); 2,6767 (0,38); 2,5624 (0,48); 2,5580 (0,61); 2,5535 (0,42); 2,5302 (1,07); 2,5254 (1,80); 2,5167 (22,34); 2,5123 (45,93); 2,5078 (61,94); 2,5033 (44,09); 2,4989 (20,54); 2,4671 (0,41); 2,4627 (0,57); 2,4581 (0,65); 2,4536 (0,42); 2,3346 (0,38); 1,7159 (0,45); 1,6992 (1,32); 1,6923 (0,50); 1,6814 (1,62); 1,6619 (1,41); 1,6455 (0,56); 1,4150 (0,94); 1,3961 (1,55); 1,3773 (1,55); 1,3590 (0,90); 0,9199 (3,53); 0,9015 (7,19); 0,8829 (3,09)

Ejemplo 184, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5439 (1,97); 8,0731 (1,14); 8,0525 (1,36); 7,9531 (0,35); 7,8385 (1,18); 7,8193 (1,58); 7,7990 (1,10); 7,7241 (1,82); 7,7215 (2,39); 7,7176 (1,17); 7,7088 (0,75); 7,7037 (3,21); 7,7000 (2,23); 7,5641 (0,46); 7,5522 (0,34); 7,5458 (1,53); 7,5401 (0,46); 7,5309 (0,80); 7,5275 (1,33); 7,5241 (0,66); 7,4964 (2,23); 7,4929 (0,95); 7,4810 (1,50); 7,4772 (2,86); 7,4637 (0,44); 7,4596 (1,16); 7,4564 (0,63); 7,1985 (0,52); 7,1941 (0,72); 7,1784 (0,84); 7,1743 (1,30); 7,1678 (1,35); 7,1639 (0,95); 7,1602 (0,69); 7,1556 (1,16); 7,1489 (1,55); 7,1438 (2,16); 7,1247 (1,57); 6,9539 (1,59); 6,9336 (1,43); 6,8677 (0,97); 6,8652 (0,85); 6,8492 (1,72); 6,8467 (1,47); 6,8308 (0,79); 6,8282 (0,68); 5,3494 (5,50); 4,0439 (0,51); 4,0261 (0,52); 3,7797 (16,00); 3,3330 (71,39); 3,0469 (15,02); 2,8904 (3,02); 2,8664 (1,01); 2,8485 (1,83); 2,8280 (1,46); 2,8011 (0,32); 2,7321 (2,37); 2,7310 (2,30); 2,6673 (1,68); 2,6506 (1,16); 2,6466 (2,01); 2,6285 (1,02); 2,5461 (0,35); 2,5257 (0,87); 2,5205 (0,88); 2,5119 (10,15); 2,5074 (20,41); 2,5027 (26,76); 2,4981 (19,33); 2,4936 (9,10); 1,1700 (0,58); 1,1522 (1,22); 1,1345 (0,56); 0,8757 (0,43); -0,0002 (5,23)
Ejemplo 185, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9283 (2,16); 7,9007 (2,74); 7,7163 (1,49); 7,6905 (2,60); 7,6646 (1,29); 7,5846 (4,48); 7,5581 (4,95); 7,2637 (7,93); 7,0223 (2,69); 6,9980 (2,54); 6,9266 (5,31); 6,9007 (4,85); 6,7759 (0,57); 5,3056 (0,37); 5,2570 (10,02); 5,1202 (0,33); 5,0276 (0,79); 5,0079 (1,48); 4,9879 (1,42); 4,9693 (0,79); 3,8411 (16,00); 3,2810 (0,32); 3,0929 (15,51); 1,7320 (0,47); 1,7110 (0,96); 1,6882 (1,31); 1,6508 (1,63); 1,6204 (4,25); 1,5870 (1,42); 1,5647 (0,73); 1,3395 (1,47); 1,3167 (1,80); 1,2930 (9,08); 1,2726 (8,98); 0,9350 (15,38); 0,9144 (14,64); -0,0002 (4,37)
Ejemplo 186, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2345 (2,80); 7,9531 (0,71); 7,8221 (0,75); 7,8011 (1,81); 7,7836 (2,16); 7,7726 (2,19); 7,7703 (2,28); 7,7520 (0,86); 7,7220 (2,79); 7,7040 (3,52); 7,7003 (2,46); 7,5624 (0,52); 7,5594 (0,35); 7,5504 (0,42); 7,5441 (1,74); 7,5385 (0,54); 7,5290 (0,99); 7,5259 (1,47); 7,5226 (0,75); 7,4952 (2,57); 7,4795 (1,87); 7,4760 (3,27); 7,4622 (0,54); 7,4583 (1,25); 7,4552 (0,72); 7,4225 (0,67); 7,4184 (0,65); 7,4035 (1,22); 7,3990 (1,26); 7,3833 (0,68); 7,3800 (0,70); 7,3034 (0,37); 7,2987 (0,77); 7,2840 (0,75); 7,2783 (0,92); 7,2739 (0,52); 7,2645 (0,51); 7,2602 (0,43); 7,2240 (0,42); 7,2070 (0,75); 7,1870 (1,03); 7,1664 (2,07); 7,1500 (1,89); 7,1475 (1,62); 7,1433 (0,86); 7,1316 (0,81); 7,1289 (0,65); 7,1048 (1,62); 7,1022 (1,59); 7,0873 (1,57); 7,0847 (1,47); 5,3288 (6,75); 4,3161 (1,77); 4,2992 (3,90); 4,2823 (1,81); 3,3288 (77,85); 3,0613 (16,00); 3,0360 (0,56); 2,9986 (1,39); 2,9818 (2,76); 2,9650 (1,29); 2,8906 (5,36); 2,7317 (4,48); 2,5113 (19,22); 2,5069 (35,97); 2,5024 (45,95); 2,4978 (33,18); 2,4935 (15,90); 1,2349 (0,43); 0,0079 (0,47); -0,0002 (10,29); -0,0085 (0,33)
Ejemplo 187, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,9980 (2,26); 8,1570 (1,59); 8,1370 (1,93); 7,9746 (0,46); 7,9685 (3,76); 7,9636 (1,22); 7,9520 (2,11); 7,9469 (4,65); 7,9408 (0,60); 7,9287 (1,28); 7,9094 (1,76); 7,8891 (1,15); 7,7352 (2,97); 7,7302 (5,32); 7,7251 (1,54); 7,7173 (3,55); 7,7135 (3,43); 7,7085 (3,88); 7,7023 (0,45); 7,5675 (0,48); 7,5557 (0,35); 7,5492 (1,63); 7,5434 (0,48); 7,5343 (0,86); 7,5309 (1,42); 7,5275 (0,70); 7,5008 (2,38); 7,4973 (1,01); 7,4854 (1,61); 7,4816 (3,06); 7,4681 (0,47); 7,4640 (1,22); 7,4607 (0,68); 7,2402 (1,74); 7,2219 (1,69); 5,4168 (6,02); 3,3313 (54,91); 3,0774 (16,00); 2,8908 (7,50); 2,7321 (6,14); 2,7311 (5,80); 2,5252 (0,66); 2,5204 (1,09); 2,5119 (12,91); 2,5074 (25,67); 2,5028 (33,69); 2,4982 (24,28); 2,4936 (11,37); 0,0080 (0,32); -0,0002 (9,68)
Ejemplo 188, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6228 (1,66); 8,0751 (0,94); 8,0544 (1,13); 7,9527 (0,34); 7,8495 (1,04); 7,8300 (1,49); 7,8099 (0,95); 7,7229 (2,22); 7,7101 (0,72); 7,7052 (2,81); 7,7015 (2,00); 7,5646 (0,40); 7,5462 (1,33); 7,5406 (0,42); 7,5313 (0,73); 7,5280 (1,17); 7,5247 (0,64); 7,4971 (2,06); 7,4816 (1,43); 7,4779 (2,59); 7,4644 (0,45); 7,4603 (1,02); 7,4572 (0,62); 7,1583 (1,54); 7,1398 (1,45); 5,3617 (5,31); 3,3370 (87,40); 3,0555 (12,82); 2,8905 (2,63); 2,7445 (0,65); 2,7306 (3,30); 2,7289 (3,34); 2,7171 (3,13); 2,7095 (2,99); 2,6982 (2,32); 2,6821 (0,62); 2,6721 (0,42); 2,5252 (0,62); 2,5117 (10,99); 2,5074 (21,33); 2,5028 (27,84); 2,4983 (20,51); 2,4938 (10,05); 2,0764 (16,00); -0,0002 (2,01)
Ejemplo 189, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,1037 (1,84); 8,0165 (1,21); 7,9960 (1,59); 7,9531 (1,28); 7,8721 (1,31); 7,8530 (1,73); 7,8326 (1,15); 7,7282 (2,05); 7,7255 (2,60); 7,7216 (1,30); 7,7129 (0,89); 7,7077 (3,59); 7,7040 (2,47); 7,5647 (0,52); 7,5615 (0,32); 7,5527 (0,38); 7,5464 (1,67); 7,5408 (0,50); 7,5314 (0,89); 7,5281 (1,45); 7,5247 (0,74); 7,4953 (2,39); 7,4918 (1,01); 7,4799 (1,69); 7,4761 (3,12); 7,4625 (0,50); 7,4584 (1,27); 7,4553 (0,70); 7,1973 (1,70); 7,1799 (1,65); 5,3952 (5,72); 3,3590 (0,49); 3,3334 (125,04); 3,0610 (16,00); 2,8911 (10,61); 2,7322 (8,55); 2,7310 (8,21); 2,5253 (0,85); 2,5205 (1,37); 2,5120 (16,39); 2,5075 (32,58); 2,5028 (42,74); 2,4982 (30,83); 2,4937 (14,55); 2,4377 (0,45); 2,4190 (0,62); 2,4008 (0,64); 2,3823 (0,49); 2,2072 (0,39); 2,1911 (1,52); 2,1747 (1,58); 2,1584 (0,40); 1,4256 (0,51); 1,4069 (0,72); 1,3887 (0,73); 1,3702 (0,61); 1,2832 (0,45); 1,1985 (6,18); 1,1822 (5,98); 0,8909 (2,37); 0,8724 (5,19); 0,8626 (0,89); 0,8536 (2,23); 0,0080 (0,43); -0,0002 (12,63); -0,0085 (0,36)
Ejemplo 190, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5608 (1,34); 8,0228 (0,72); 8,0021 (0,89); 7,9528 (0,38); 7,8316 (0,76); 7,8122 (1,10); 7,7920 (0,69); 7,7302 (1,64); 7,7124 (2,01); 7,7087 (1,45); 7,5489 (0,97); 7,5436 (0,32); 7,5340 (0,53); 7,5309 (0,83); 7,5277 (0,47); 7,5005 (1,48); 7,4847 (1,03); 7,4813 (1,85); 7,4636 (0,69); 7,4606 (0,43); 7,1509 (1,12); 7,1325 (1,07); 6,8993 (1,12); 6,8772 (1,75); 6,8389 (1,14); 6,8314 (1,58); 6,8066 (1,21); 6,7989 (0,76); 6,7846 (0,72); 6,7769 (0,52); 5,3707 (3,71); 3,6870 (16,00); 3,5449 (0,32); 3,3313 (39,68); 3,0634 (8,83); 2,8898 (2,88); 2,7309 (2,40); 2,5110 (7,31); 2,5067 (13,78); 2,5022 (17,78); 2,4977 (13,04); 2,4933 (6,37); 1,1676 (0,35); -0,0002 (3,10)
Ejemplo 191, Disolvente: DMSO, Espectrómetro: 499,93 MHz
12,1460 (2,13); 8,0017 (0,91); 7,9855 (2,03); 7,9703 (1,79); 7,9417 (2,55); 7,9255 (1,40); 7,7986 (0,34); 7,7938 (0,42); 7,6739 (4,00); 7,6699 (2,08); 7,6561 (4,45); 7,3455 (1,98); 7,3308 (1,92); 7,0396 (4,23); 7,0218 (4,19); 5,7761 (3,49); 5,3920 (6,96); 5,3772 (0,52); 5,2861 (0,72); 3,8283 (0,81); 3,8147 (16,00); 3,3674 (5,04); 3,3439 (0,35); 3,1634 (0,42); 3,0586 (15,02); 2,5170 (2,29); 2,5137 (3,03); 2,5104 (2,41); 1,9994 (0,56); 1,2582 (0,59); 1,2457 (0,67); 1,2342 (0,58); 1,2218 (0,52); 0,8992 (0,72); 0,8879 (0,71); 0,8862 (0,72)
Ejemplo 192, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1742 (2,55); 7,9535 (0,41); 7,8300 (0,54); 7,8090 (1,93); 7,7933 (4,11); 7,7896 (2,83); 7,7732 (0,60); 7,7260 (1,98); 7,7233 (2,58); 7,7195 (1,26); 7,7108 (0,78); 7,7056 (3,39); 7,7019 (2,37); 7,5632 (0,49); 7,5513 (0,36); 7,5449 (1,63); 7,5391 (0,49); 7,5300 (0,88); 7,5266 (1,43); 7,5232 (0,73); 7,4962 (2,40); 7,4928 (1,03); 7,4809 (1,64); 7,4771 (3,06); 7,4635 (0,47); 7,4595 (1,22); 7,4562 (0,68); 7,1022 (1,35); 7,0975

(1,36); 7,0861 (1,24); 7,0815 (1,28); 5,3340 (6,35); 4,0253 (4,21); 4,0105 (4,19); 3,3444 (106,79); 3,3202 (0,53); 3,0655 (16,00); 2,8915 (3,26); 2,7329 (2,64); 2,7317 (2,60); 2,5264 (0,50); 2,5216 (0,82); 2,5131 (9,67); 2,5086 (19,27); 2,5040 (25,37); 2,4994 (18,43); 2,4948 (8,78); 1,5324 (0,68); 1,5169 (1,01); 1,5013 (0,84); 1,4858 (0,41); 1,3872 (0,69); 1,3779 (0,56); 1,3682 (1,83); 1,3595 (1,77); 1,3495 (2,08); 1,3419 (2,25); 1,3336 (1,60); 1,3247 (1,84); 1,3149 (0,57); 1,3067 (0,76); 0,8918 (6,94); 0,8827 (0,78); 0,8733 (14,45); 0,8545 (5,92); -0,0002 (1,59)

Ejemplo 193, Disolvente: DMSO, Espectrómetro: 400,13 MHz

9,8075 (1,18); 7,8067 (0,34); 7,7858 (0,74); 7,7676 (0,77); 7,7440 (0,93); 7,7250 (0,43); 7,6041 (0,34); 7,5968 (0,55); 7,5913 (0,40); 7,5840 (0,43); 7,5770 (0,75); 7,5580 (0,36); 7,3637 (0,39); 7,3434 (0,40); 7,3361 (0,53); 7,3329 (0,66); 7,3142 (1,09); 7,2951 (0,38); 7,2926 (0,33); 7,1170 (0,69); 7,1003 (0,64); 5,3220 (2,56); 3,3496 (6,90); 2,5169 (3,21); 2,5126 (6,45); 2,5081 (8,62); 2,5037 (6,15); 2,4994 (2,89); 1,4659 (16,00); 1,3779 (0,32)

Ejemplo 194, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,1539 (1,39); 7,7436 (0,41); 7,7375 (1,92); 7,7348 (2,58); 7,7308 (1,30); 7,7224 (0,96); 7,7172 (3,36); 7,7134 (2,30); 7,5640 (0,50); 7,5608 (0,34); 7,5527 (0,38); 7,5457 (1,64); 7,5398 (0,52); 7,5310 (1,00); 7,5276 (1,52); 7,5241 (0,76); 7,5018 (2,48); 7,4984 (1,12); 7,4868 (1,72); 7,4828 (3,05); 7,4695 (0,57); 7,4653 (1,22); 7,4618 (0,68); 7,3763 (7,33); 7,3708 (3,59); 7,3602 (3,85); 7,3533 (3,47); 7,3461 (1,39); 7,3429 (1,36); 7,3404 (1,38); 7,3198 (3,36); 7,3085 (0,92); 7,2970 (1,17); 7,2847 (0,33); 5,4850 (0,46); 5,3745 (0,36); 5,3310 (4,73); 5,1949 (0,66); 5,1861 (0,60); 5,1812 (0,78); 4,9241 (1,28); 4,9149 (1,23); 4,9102 (0,96); 4,9057 (1,15); 4,8977 (1,97); 4,8879 (0,35); 4,8592 (0,62); 4,8455 (0,58); 4,8349 (0,77); 4,7813 (1,01); 4,5853 (6,58); 4,5680 (2,97); 4,5464 (0,58); 4,2871 (2,56); 4,2709 (0,78); 4,2462 (6,50); 4,1258 (0,96); 4,1098 (0,95); 3,8443 (0,78); 3,6800 (2,12); 3,3842 (0,41); 3,3326 (338,47); 3,0557 (0,36); 3,0468 (0,32); 3,0156 (16,00); 2,8903 (0,99); 2,7304 (0,77); 2,6800 (0,32); 2,6756 (0,70); 2,6711 (0,96); 2,6664 (0,68); 2,5244 (2,76); 2,5196 (4,50); 2,5110 (56,29); 2,5065 (112,47); 2,5019 (148,17); 2,4973 (107,53); 2,4928 (51,23); 2,3377 (0,36); 2,3333 (0,74); 2,3287 (0,99); 2,3242 (0,72); 2,3197 (0,36); 1,2352 (0,66); 0,0080 (0,97); -0,0002 (29,69); -0,0086 (0,88)

Ejemplo 195, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,9972 (1,78); 7,9529 (0,44); 7,7372 (1,98); 7,7347 (2,59); 7,7307 (1,25); 7,7222 (0,80); 7,7170 (3,40); 7,7132 (2,33); 7,5641 (0,46); 7,5527 (0,34); 7,5458 (1,66); 7,5399 (0,49); 7,5311 (0,92); 7,5277 (1,48); 7,5242 (0,74); 7,5018 (2,47); 7,4985 (1,05); 7,4868 (1,61); 7,4828 (3,05); 7,4694 (0,48); 7,4653 (1,20); 7,4618 (0,66); 7,3106 (4,44); 5,3305 (6,05); 4,1165 (9,21); 4,0002 (0,65); 3,9902 (0,90); 3,9804 (0,78); 3,3322 (59,45); 3,0125 (16,00); 2,8908 (3,55); 2,7320 (2,85); 2,7310 (2,79); 2,5251 (0,57); 2,5117 (11,15); 2,5072 (22,21); 2,5026 (29,22); 2,4980 (21,22); 2,4935 (10,14); 1,6846 (0,35); 1,6746 (0,78); 1,6707 (0,89); 1,6578 (2,44); 1,6550 (2,68); 1,6490 (3,72); 1,6465 (3,44); 1,6385 (4,46); 1,6298 (1,54); 1,6187 (0,74); 1,6075 (0,55); 1,6028 (0,52); 1,4829 (1,01); 1,4761 (1,08); 1,4665 (0,90); 0,0080 (0,33); -0,0002 (10,02)

Ejemplo 196, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,8301 (1,89); 8,0235 (1,08); 8,0028 (1,34); 7,9533 (0,96); 7,8389 (1,29); 7,8197 (1,72); 7,7993 (1,14); 7,7256 (1,93); 7,7231 (2,55); 7,7192 (1,20); 7,7104 (0,77); 7,7053 (3,41); 7,7015 (2,34); 7,5655 (0,49); 7,5536 (0,36); 7,5472 (1,63); 7,5415 (0,48); 7,5322 (0,86); 7,5289 (1,40); 7,5255 (0,69); 7,4972 (2,36); 7,4938 (0,98); 7,4818 (1,62); 7,4781 (3,04); 7,4644 (0,47); 7,4604 (1,22); 7,4572 (0,67); 7,3943 (0,94); 7,3926 (0,74); 7,3874 (0,54); 7,3790 (0,90); 7,3722 (7,83); 7,3690 (2,87); 7,3644 (6,62); 7,3575 (0,74); 7,3490 (0,45); 7,3422 (0,88); 7,1637 (1,72); 7,1463 (1,66); 5,3697 (5,94); 3,7272 (5,85); 3,3342 (102,59); 3,0507 (16,00); 2,8907 (8,08); 2,7321 (6,25); 2,7311 (6,24); 2,5255 (0,68); 2,5207 (1,08); 2,5122 (13,38); 2,5076 (26,78); 2,5030 (35,23); 2,4984 (25,41); 2,4938 (11,94); -0,0002 (5,23)

Ejemplo 197, Disolvente: DMSO, Espectrómetro: 499,93 MHz

7,7531 (2,74); 7,7426 (0,97); 7,7387 (3,35); 7,7358 (2,51); 7,5661 (0,54); 7,5637 (0,38); 7,5561 (0,44); 7,5514 (1,70); 7,5472 (0,66); 7,5390 (1,14); 7,5368 (1,54); 7,5343 (0,91); 7,5244 (0,43); 7,5060 (2,59); 7,5029 (2,05); 7,4904 (3,82); 7,4796 (0,97); 7,4762 (1,65); 7,4739 (1,33); 7,4713 (1,47); 7,3695 (0,33); 7,3009 (0,60); 7,2960 (0,34); 7,2920 (0,74); 7,2847 (0,62); 7,1964 (0,41); 6,5446 (1,64); 6,5402 (2,15); 6,5263 (2,97); 5,7777 (2,34); 5,2802 (0,36); 5,2431 (6,80); 3,9093 (0,44); 3,7593 (1,82); 3,6223 (0,46); 3,6209 (0,46); 3,4938 (1,50); 3,4798 (4,87); 3,4658 (5,01); 3,4519 (1,70); 3,3664 (2,18); 3,3406 (0,69); 3,0694 (16,00); 3,0540 (0,46); 3,0210 (0,67); 2,5204 (1,77); 2,5171 (3,78); 2,5136 (5,21); 2,5100 (3,94); 2,5067 (2,01); 2,3165 (1,95); 2,2189 (0,71); 1,6012 (0,53); 1,4713 (0,51); 1,4334 (0,97); 1,2419 (0,47); 1,0913 (5,78); 1,0774 (13,03); 1,0634 (5,98)

Ejemplo 198, Disolvente: DMSO, Espectrómetro: 400,13 MHz

12,1310 (3,72); 7,7440 (4,00); 7,7247 (4,54); 7,5710 (0,65); 7,5531 (1,97); 7,5354 (1,98); 7,5100 (3,43); 7,4909 (4,23); 7,4724 (1,53); 7,2682 (5,13); 5,3276 (8,77); 4,0450 (0,91); 4,0271 (0,91); 3,3442 (36,64); 3,0208 (16,00); 2,5109 (29,55); 2,4248 (2,36); 2,4065 (4,70); 2,3881 (2,63); 1,9971 (3,67); 1,6264 (0,57); 1,6080 (1,91); 1,5902 (2,77); 1,5725 (1,95); 1,5551 (0,63); 1,3164 (0,70); 1,3013 (1,67); 1,2772 (4,42); 1,2699 (4,39); 1,2406 (1,32); 1,1996 (1,03); 1,1818 (1,92); 1,1640 (0,99); 1,1305 (0,56); 1,1154 (0,55); 0,8807 (3,55); 0,8646 (7,48); 0,8471 (3,55)

Ejemplo 199, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,2386 (3,75); 7,8908 (0,59); 7,8698 (2,25); 7,8535 (5,80); 7,8338 (0,76); 7,7875 (3,92); 7,7688 (4,45); 7,6246 (0,65); 7,6068 (1,98); 7,5890 (1,85); 7,5583 (3,28); 7,5391 (4,18); 7,5208 (1,54); 7,1635 (2,05); 7,1473 (1,94); 5,8248 (3,93); 5,3893 (8,72); 5,0345 (0,71); 5,0193 (1,26); 5,0073 (1,31); 4,9917 (0,76); 3,5848 (0,76); 3,5613 (1,84); 3,5439 (2,34); 3,5280 (4,17); 3,5098 (4,87); 3,4924 (1,20); 3,4863 (1,02); 3,3996 (33,79); 3,3760 (2,77); 3,1356 (16,00); 2,5664 (53,52); 2,3924 (0,33); 1,2763 (7,71); 1,2602 (7,72); 1,1786 (4,44); 1,1611 (8,80); 1,1437 (4,38); -0,0002 (0,32)

Ejemplo 200, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,0669 (2,72); 7,9531 (0,43); 7,8220 (0,42); 7,8009 (2,26); 7,7921 (2,46); 7,7862 (5,44); 7,7712 (0,51); 7,7224 (2,73); 7,7186 (1,39); 7,7097 (0,86); 7,7046 (3,50); 7,7009 (2,49); 7,5625 (0,51); 7,5593 (0,34); 7,5506 (0,38); 7,5441 (1,66); 7,5384 (0,53); 7,5292 (0,91); 7,5259 (1,47); 7,5225 (0,79); 7,4957 (2,51); 7,4924 (1,15); 7,4803 (1,70); 7,4765 (3,17); 7,4630 (0,52); 7,4589 (1,25); 7,4557 (0,73); 7,0955 (1,33); 7,0893 (1,34); 7,0810 (1,17); 7,0748 (1,30); 5,3256 (6,60); 4,8229 (0,50); 4,8074 (0,82); 4,7906 (0,83); 4,7751 (0,51); 3,3495 (128,02); 3,0714 (16,00); 2,8916 (3,46); 2,7321 (2,77); 2,5266 (0,61); 2,5134 (10,19); 2,5089 (20,15); 2,5043 (26,68); 2,4998 (19,80); 2,4953 (9,87); 1,5837 (0,40);

1,5731 (0,52); 1,5645 (0,45); 1,5596 (0,43); 1,5548 (0,51); 1,5393 (0,62); 1,5248 (0,57); 1,5183 (0,44); 1,5046 (0,40); 1,3356 (0,55); 1,3080 (1,81); 1,2994 (2,11); 1,2965 (2,07); 1,2850 (1,55); 1,2719 (0,77); 1,2598 (0,36); 1,2534 (0,33); 1,2303 (6,88); 1,2147 (6,76); 0,8885 (1,66); 0,8715 (3,87); 0,8536 (1,45); -0,0002 (0,79)
Ejemplo 201, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3873 (6,45); 7,8543 (1,01); 7,8332 (4,47); 7,8216 (5,37); 7,8174 (9,45); 7,8009 (1,23); 7,7953 (0,41); 7,7250 (5,85); 7,7123 (1,79); 7,7072 (7,41); 7,7035 (5,23); 7,5769 (0,64); 7,5738 (1,12); 7,5706 (0,83); 7,5619 (0,96); 7,5554 (3,69); 7,5497 (1,21); 7,5406 (2,12); 7,5373 (3,23); 7,5339 (1,73); 7,5087 (5,41); 7,4934 (3,70); 7,4896 (6,72); 7,4761 (1,15); 7,4720 (2,75); 7,4687 (1,67); 7,4404 (2,11); 7,4358 (2,89); 7,4192 (7,93); 7,4152 (7,60); 7,4135 (7,36); 7,4107 (6,78); 7,4052 (1,46); 7,3934 (7,72); 7,3889 (2,42); 7,3785 (1,83); 7,3742 (2,89); 7,3582 (1,70); 7,3537 (2,67); 7,3487 (1,41); 7,3439 (1,17); 7,3365 (2,54); 7,3291 (0,96); 7,3238 (0,83); 7,3171 (1,39); 7,1149 (2,86); 7,1095 (2,85); 7,0996 (2,59); 7,0942 (2,75); 5,3506 (13,87); 5,1862 (16,00); 4,5052 (0,38); 4,4907 (0,37); 3,5221 (1,78); 3,5040 (6,02); 3,4858 (6,14); 3,4676 (1,85); 3,3953 (2,45); 3,3454 (152,36); 3,3218 (1,12); 3,2955 (1,14); 2,6792 (0,38); 2,5689 (0,38); 2,5646 (0,74); 2,5600 (1,00); 2,5556 (0,73); 2,5511 (0,37); 2,5325 (0,86); 2,5191 (22,11); 2,5147 (46,04); 2,5102 (62,64); 2,5057 (44,54); 2,5013 (20,50); 2,4602 (0,44); 2,4558 (0,38); 2,3369 (0,38); 1,9972 (1,37); 1,3708 (1,12); 1,3237 (0,55); 1,2407 (0,43); 1,1994 (0,42); 1,1817 (0,76); 1,1639 (0,38); 1,0551 (6,72); 1,0370 (15,39); 1,0187 (6,58)
Ejemplo 202, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,0982 (2,23); 8,1505 (1,59); 8,1306 (1,94); 7,9528 (0,93); 7,9484 (1,54); 7,9289 (1,82); 7,9087 (1,18); 7,7624 (1,46); 7,7567 (1,82); 7,7440 (1,37); 7,7412 (2,11); 7,7380 (3,00); 7,7355 (3,97); 7,7315 (1,56); 7,7229 (0,91); 7,7176 (3,43); 7,7138 (2,37); 7,5689 (0,48); 7,5657 (0,33); 7,5574 (0,69); 7,5508 (2,02); 7,5452 (0,73); 7,5353 (1,52); 7,5323 (1,77); 7,5290 (1,92); 7,5233 (0,66); 7,5121 (0,51); 7,5020 (2,55); 7,4867 (1,60); 7,4829 (3,07); 7,4694 (0,48); 7,4653 (1,23); 7,4620 (0,70); 7,2632 (1,78); 7,2454 (1,72); 5,4248 (6,10); 3,3442 (100,27); 3,0943 (0,34); 3,0785 (16,00); 2,8913 (6,97); 2,7324 (5,33); 2,7317 (5,39); 2,5263 (0,62); 2,5215 (0,99); 2,5130 (11,94); 2,5085 (23,82); 2,5039 (31,41); 2,4993 (22,74); 2,4947 (10,77); -0,0002 (1,22)
Ejemplo 203, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,4298 (2,41); 7,6250 (1,17); 7,6181 (1,35); 7,6141 (1,40); 7,6040 (1,01); 7,5940 (3,31); 7,5687 (0,82); 7,5546 (0,92); 7,5485 (1,27); 7,5342 (1,22); 7,5295 (0,81); 7,5134 (0,53); 7,4305 (0,62); 7,4278 (0,68); 7,4244 (0,64); 7,4217 (0,59); 7,4069 (1,11); 7,4027 (1,00); 7,3883 (0,52); 7,3828 (0,57); 7,3510 (0,51); 7,3468 (0,37); 7,3314 (3,65); 7,3262 (4,10); 7,3179 (13,37); 7,3034 (5,07); 7,2906 (0,37); 7,2780 (0,90); 7,2713 (0,94); 7,2689 (0,99); 7,2601 (0,81); 7,2565 (0,95); 7,2518 (0,68); 7,2465 (0,45); 7,2428 (0,47); 5,7615 (4,82); 5,3522 (6,66); 4,0419 (0,68); 4,0241 (0,70); 3,7558 (8,04); 3,4034 (3,90); 3,3532 (198,24); 3,3033 (2,75); 3,0161 (16,00); 2,5626 (0,48); 2,5580 (0,65); 2,5534 (0,51); 2,5488 (0,36); 2,5122 (27,53); 2,5078 (36,26); 2,5035 (26,37); 2,4625 (0,39); 2,4579 (0,46); 1,9936 (2,97); 1,2468 (0,42); 1,1964 (0,81); 1,1786 (1,57); 1,1608 (0,77); 0,8615 (0,51)
Ejemplo 204, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8413 (2,18); 8,0076 (1,27); 7,9870 (1,66); 7,9530 (0,92); 7,8670 (1,37); 7,8477 (1,84); 7,8274 (1,15); 7,7281 (2,70); 7,7243 (1,32); 7,7153 (0,79); 7,7103 (3,45); 7,7065 (2,42); 7,5697 (0,49); 7,5665 (0,32); 7,5576 (0,37); 7,5512 (1,66); 7,5456 (0,50); 7,5363 (0,87); 7,5330 (1,43); 7,5297 (0,74); 7,5012 (2,46); 7,4979 (1,09); 7,4857 (1,69); 7,4820 (3,19); 7,4718 (0,53); 7,4632 (4,80); 7,4577 (1,35); 7,4460 (1,27); 7,4405 (4,44); 7,4318 (0,38); 7,2020 (1,83); 7,1841 (1,73); 6,9056 (0,43); 6,8969 (4,17); 6,8914 (1,24); 6,8798 (1,20); 6,8743 (3,92); 6,8656 (0,33); 5,3842 (6,11); 5,0686 (1,07); 5,0521 (1,07); 3,3370 (109,15); 3,0613 (16,00); 2,8907 (7,63); 2,7313 (6,04); 2,5256 (0,74); 2,5123 (14,64); 2,5078 (29,08); 2,5032 (38,29); 2,4986 (27,75); 2,4941 (13,21); 1,5345 (5,46); 1,5181 (5,42); -0,0002 (2,46)
Ejemplo 205, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2539 (2,80); 7,8468 (0,61); 7,8258 (1,79); 7,8087 (2,72); 7,8062 (2,48); 7,8021 (2,53); 7,7850 (0,72); 7,7811 (0,46); 7,7309 (1,95); 7,7284 (2,59); 7,7246 (1,32); 7,7158 (0,79); 7,7106 (3,35); 7,7069 (2,41); 7,5683 (0,48); 7,5652 (0,33); 7,5565 (0,38); 7,5501 (1,60); 7,5444 (0,49); 7,5351 (0,88); 7,5318 (1,44); 7,5284 (0,76); 7,5012 (2,40); 7,4979 (1,11); 7,4858 (1,63); 7,4821 (3,03); 7,4685 (0,48); 7,4644 (1,19); 7,4612 (0,69); 7,1199 (1,35); 7,1161 (1,41); 7,1031 (1,29); 7,0993 (1,32); 5,7629 (5,65); 5,3423 (6,20); 4,1663 (1,39); 4,1503 (2,90); 4,1344 (1,43); 3,4009 (2,36); 3,3509 (182,55); 3,3235 (0,34); 3,3010 (1,74); 3,0681 (16,00); 2,5583 (0,34); 2,5307 (0,42); 2,5259 (0,71); 2,5173 (9,78); 2,5128 (20,52); 2,5083 (28,08); 2,5038 (20,19); 2,4994 (9,50); 2,4590 (0,42); 2,4316 (0,70); 2,4170 (0,49); 2,4119 (0,70); 2,4027 (0,88); 2,3911 (0,88); 2,3830 (0,71); 2,3742 (0,50); 2,3625 (0,76); 2,3340 (0,37); 1,8789 (0,44); 1,8630 (1,09); 1,8478 (0,92); 1,8426 (1,08); 1,8232 (1,04); 1,8071 (0,38)
Ejemplo 206, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9142 (1,19); 7,8866 (1,56); 7,7097 (1,08); 7,6839 (1,47); 7,6570 (0,91); 7,4591 (0,71); 7,4531 (0,81); 7,4458 (0,66); 7,4349 (0,44); 7,4262 (0,66); 7,4204 (0,84); 7,4161 (0,95); 7,4092 (1,09); 7,3916 (0,96); 7,3833 (1,04); 7,3753 (1,26); 7,3697 (2,24); 7,3668 (2,31); 7,3494 (0,46); 7,3447 (0,58); 7,2622 (13,27); 7,2093 (0,48); 7,2037 (0,55); 7,2010 (0,58); 7,1959 (0,54); 7,1818 (1,16); 7,1740 (1,97); 7,1593 (0,69); 7,1505 (0,70); 7,1425 (0,38); 7,0029 (1,55); 6,9786 (1,46); 5,5854 (0,66); 5,3012 (2,73); 5,2941 (7,16); 3,1072 (0,41); 3,0941 (16,00); 1,5679 (0,47); 1,5257 (41,12); 1,4635 (0,34); 1,4433 (8,40); -0,0002 (7,32)
Ejemplo 207, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1215 (6,72); 7,8362 (1,44); 7,8152 (4,05); 7,7981 (5,62); 7,7940 (5,07); 7,7903 (5,55); 7,7730 (1,72); 7,7694 (1,12); 7,7248 (6,08); 7,7209 (3,06); 7,7121 (1,93); 7,7070 (7,83); 7,7033 (5,52); 7,5771 (0,61); 7,5741 (1,08); 7,5709 (0,73); 7,5623 (0,89); 7,5557 (3,78); 7,5500 (1,15); 7,5409 (2,15); 7,5376 (3,34); 7,5342 (1,75); 7,5100 (5,71); 7,4948 (3,76); 7,4909 (7,02); 7,4775 (1,12); 7,4734 (2,70); 7,4700 (1,55); 7,0981 (3,21); 7,0946 (3,22); 7,0812 (3,06); 7,0776 (2,98); 5,3434 (13,84); 4,8874 (0,98); 4,8720 (1,46); 4,8583 (1,41); 4,8547 (1,50); 4,8394 (1,01); 3,5303 (1,75); 3,5122 (6,02); 3,4940 (6,13); 3,4759 (1,90); 3,4628 (0,45); 3,4124 (8,00); 3,3926 (0,68); 3,3623 (579,30); 3,3382 (1,37); 3,3297 (0,78); 3,3253 (0,75); 3,3123 (6,40); 2,8081 (2,87); 2,8015 (6,71); 2,7949 (2,94); 2,6835 (0,34); 2,6790 (0,50); 2,6744 (0,35); 2,5689 (0,36); 2,5645 (0,75); 2,5600 (1,03); 2,5555 (0,74); 2,5509 (0,37); 2,5323 (1,30); 2,5275 (2,21); 2,5188 (29,41); 2,5144 (61,47); 2,5099 (83,77); 2,5054

(59,95); 2,5011 (27,90); 2,4691 (0,57); 2,4645 (0,81); 2,4600 (0,99); 2,4554 (0,72); 2,3414 (0,40); 2,3368 (0,55); 2,3323 (0,42); 2,2867 (1,91); 2,2801 (2,07); 2,2678 (4,04); 2,2614 (3,84); 2,2501 (2,37); 2,2436 (2,18); 1,7945 (0,62); 1,7773 (1,26); 1,7596 (2,65); 1,7510 (0,87); 1,7415 (2,98); 1,7241 (2,67); 1,7046 (1,15); 1,6904 (0,48); 1,3029 (0,41); 1,2929 (0,39); 1,2869 (0,52); 1,2585 (14,74); 1,2429 (15,24); 1,0647 (7,01); 1,0466 (16,00); 1,0284 (6,85); 0,8798 (0,69); 0,8630 (2,19); 0,8454 (0,86)
Ejemplo 208, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4914 (1,95); 8,0795 (1,27); 8,0589 (1,49); 7,9534 (0,57); 7,8298 (1,25); 7,8106 (1,73); 7,7902 (1,19); 7,7256 (1,98); 7,7230 (2,57); 7,7192 (1,25); 7,7104 (0,82); 7,7053 (3,47); 7,7015 (2,34); 7,5640 (0,49); 7,5521 (0,37); 7,5457 (1,63); 7,5400 (0,48); 7,5307 (0,88); 7,5274 (1,42); 7,5240 (0,70); 7,4961 (2,40); 7,4926 (1,00); 7,4807 (1,68); 7,4770 (3,06); 7,4634 (0,49); 7,4593 (1,23); 7,4561 (0,67); 7,1404 (1,73); 7,1230 (1,69); 5,3542 (6,07); 3,3300 (53,86); 3,0544 (16,00); 2,8910 (4,71); 2,7324 (3,77); 2,7313 (3,66); 2,5255 (0,57); 2,5206 (0,96); 2,5121 (10,93); 2,5076 (21,56); 2,5030 (28,24); 2,4984 (20,40); 2,4939 (9,59); 2,2748 (3,13); 2,2572 (3,26); 1,7590 (0,35); 1,7501 (0,45); 1,7418 (0,38); 1,7319 (0,32); 1,6732 (1,45); 1,6665 (1,45); 1,6415 (1,86); 1,5830 (0,45); 1,2343 (0,68); 1,2257 (0,72); 1,2014 (0,76); 1,1946 (0,91); 1,1636 (0,87); 1,1335 (0,51); 1,1032 (0,35); 1,0019 (0,38); 0,9960 (0,45); 0,9671 (0,99); 0,9405 (0,81); 0,8758 (0,44); -0,0002 (5,71)
Ejemplo 210, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2465 (2,58); 7,9533 (0,56); 7,8237 (0,58); 7,8067 (0,53); 7,8026 (1,81); 7,7856 (3,42); 7,7803 (2,40); 7,7634 (0,64); 7,7593 (0,35); 7,7305 (0,32); 7,7250 (1,97); 7,7223 (2,58); 7,7185 (1,27); 7,7098 (0,81); 7,7046 (3,42); 7,7009 (2,39); 7,5626 (0,48); 7,5507 (0,37); 7,5443 (1,63); 7,5386 (0,50); 7,5293 (0,88); 7,5260 (1,42); 7,5226 (0,73); 7,4951 (2,38); 7,4917 (1,04); 7,4798 (1,66); 7,4760 (3,07); 7,4624 (0,49); 7,4584 (1,23); 7,4551 (0,69); 7,2617 (1,60); 7,2454 (1,83); 7,2098 (0,33); 7,2040 (0,83); 7,1851 (2,07); 7,1664 (1,43); 7,1162 (1,95); 7,1055 (1,55); 7,1013 (1,67); 7,0928 (1,72); 7,0890 (2,12); 7,0848 (1,62); 7,0741 (0,95); 7,0387 (1,16); 7,0200 (0,90); 5,3317 (6,15); 4,4018 (0,68); 4,3848 (0,32); 4,2879 (1,61); 4,2705 (3,66); 4,2531 (1,67); 3,3314 (67,99); 3,0619 (16,00); 2,9517 (0,48); 2,9070 (1,42); 2,8902 (7,30); 2,8724 (1,34); 2,7321 (3,71); 2,7309 (3,66); 2,5250 (0,65); 2,5201 (1,10); 2,5117 (11,88); 2,5072 (23,41); 2,5025 (30,75); 2,4979 (22,38); 2,4934 (10,71); 2,2922 (1,58); 2,2788 (10,11); -0,0002 (6,38)
Ejemplo 211, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5300 (2,16); 8,0820 (1,25); 8,0613 (1,47); 7,8411 (1,22); 7,8217 (1,74); 7,8016 (1,11); 7,4233 (1,03); 7,4034 (2,19); 7,3833 (1,59); 7,2856 (1,43); 7,2833 (1,28); 7,2661 (1,17); 7,2639 (0,98); 7,2455 (1,54); 7,2396 (1,97); 7,2354 (1,37); 7,1463 (2,84); 7,1400 (1,14); 7,1382 (1,10); 7,1268 (2,18); 7,1193 (0,92); 5,3602 (5,94); 3,7893 (16,00); 3,3436 (40,59); 3,0438 (14,80); 2,5610 (0,36); 2,5321 (1,09); 2,5187 (16,41); 2,5143 (33,34); 2,5099 (45,01); 2,5054 (32,39); 2,5011 (15,25); 2,4608 (0,40); 2,3960 (1,63); 2,3776 (3,06); 2,3591 (1,76); 1,6129 (0,36); 1,5943 (1,09); 1,5759 (1,51); 1,5581 (1,05); 1,5397 (0,35); 1,3252 (0,38); 1,3092 (0,85); 1,2925 (1,70); 1,2850 (2,49); 1,2777 (2,12); 1,2677 (1,76); 1,2575 (1,37); 1,2472 (0,90); 0,8864 (2,49); 0,8694 (6,22); 0,8516 (2,57)
Ejemplo 212, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,7329 (1,22); 7,9533 (1,66); 7,7494 (1,84); 7,7465 (2,48); 7,7425 (1,20); 7,7342 (0,74); 7,7290 (3,27); 7,7252 (2,24); 7,6770 (1,30); 7,6745 (1,29); 7,6713 (1,59); 7,6670 (1,88); 7,6652 (1,78); 7,6608 (2,96); 7,6587 (1,90); 7,5685 (0,44); 7,5502 (1,55); 7,5442 (0,47); 7,5356 (0,88); 7,5321 (1,45); 7,5286 (0,72); 7,5079 (2,34); 7,5045 (1,00); 7,4930 (1,48); 7,4889 (2,85); 7,4720 (2,20); 7,4678 (0,80); 7,4624 (0,34); 7,4520 (2,53); 7,4315 (1,35); 7,3830 (3,66); 7,2063 (0,90); 7,2041 (0,98); 7,2000 (0,92); 7,1978 (0,89); 7,1857 (0,79); 7,1832 (0,78); 7,1796 (0,81); 7,1771 (0,72); 5,3863 (5,28); 3,8427 (16,00); 3,3389 (84,95); 3,0183 (15,32); 2,8912 (13,52); 2,7326 (10,94); 2,7314 (10,57); 2,5260 (0,60); 2,5212 (0,97); 2,5126 (11,52); 2,5081 (22,90); 2,5035 (30,01); 2,4989 (21,67); 2,4943 (10,22); -0,0002 (5,68)
Ejemplo 213, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4033 (1,18); 7,9526 (1,06); 7,7378 (2,75); 7,7339 (1,35); 7,7253 (0,81); 7,7202 (3,49); 7,7164 (2,47); 7,5661 (0,49); 7,5629 (0,33); 7,5546 (0,35); 7,5477 (1,68); 7,5419 (0,51); 7,5330 (0,94); 7,5297 (1,52); 7,5262 (0,78); 7,5038 (2,55); 7,5006 (1,14); 7,4886 (1,66); 7,4848 (3,17); 7,4714 (0,50); 7,4673 (1,22); 7,4638 (0,70); 7,3316 (4,68); 7,1725 (1,12); 7,1543 (1,28); 7,1436 (0,59); 7,1407 (0,51); 7,1244 (1,16); 7,1045 (0,72); 7,1014 (0,62); 6,8819 (0,97); 6,8636 (1,65); 6,8466 (0,74); 6,8450 (0,74); 6,8173 (1,68); 6,7970 (1,50); 5,3395 (6,05); 4,8670 (7,56); 3,3370 (92,18); 3,0230 (16,00); 2,8901 (8,26); 2,7317 (6,57); 2,7308 (6,65); 2,5249 (0,64); 2,5115 (13,25); 2,5071 (26,45); 2,5025 (34,92); 2,4979 (25,57); 2,4934 (12,40); 2,2229 (10,86); -0,0002 (2,10)
Ejemplo 214, Disolvente: DMSO, Espectrómetro: 300,16 MHz
9,8147 (0,73); 8,1638 (0,91); 7,8000 (0,36); 7,7861 (0,35); 7,7719 (0,62); 7,7626 (0,45); 7,7487 (0,78); 7,7326 (0,75); 7,7087 (0,33); 7,6790 (0,62); 7,6607 (0,76); 7,6492 (0,75); 7,6382 (0,36); 7,6311 (0,69); 7,3100 (0,73); 7,2803 (1,54); 7,2737 (2,64); 7,2706 (2,35); 7,2509 (0,63); 7,1221 (0,49); 7,1190 (0,49); 7,0993 (0,41); 5,2502 (1,74); 5,1466 (0,34); 4,0590 (0,32); 4,0353 (0,33); 2,5332 (0,71); 2,5274 (1,48); 2,5215 (2,02); 2,5155 (1,48); 2,5098 (0,72); 2,0079 (1,37); 1,4982 (1,79); 1,4791 (16,00); 1,3561 (0,34); 1,2163 (0,37); 1,1926 (0,73); 1,1688 (0,36)
Ejemplo 215, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2011 (3,15); 7,8365 (0,44); 7,8155 (2,34); 7,8071 (2,56); 7,8010 (5,59); 7,7862 (0,48); 7,5384 (2,33); 7,5234 (0,69); 7,5189 (0,59); 7,5143 (0,99); 7,5111 (1,03); 7,5017 (0,95); 7,3894 (0,34); 7,3699 (2,52); 7,3580 (3,35); 7,3560 (3,24); 7,0972 (1,36); 7,0908 (1,34); 7,0829 (1,18); 7,0765 (1,29); 5,7684 (0,63); 5,3282 (6,96); 4,1125 (2,20); 4,0959 (4,67); 4,0793 (2,24); 3,4034 (2,72); 3,3533 (187,35); 3,3261 (0,66); 3,3033 (2,15); 3,0728 (0,40); 3,0584 (16,00); 2,6788 (0,36); 2,5643 (0,55); 2,5598 (0,76); 2,5553 (0,54); 2,5320 (0,95); 2,5183 (21,78); 2,5142 (44,85); 2,5098 (60,71); 2,5054 (44,01); 2,4688 (0,41); 2,4643 (0,59); 2,4598 (0,70); 2,4552 (0,51); 2,3375 (11,57); 1,6317 (0,47); 1,6147 (1,51); 1,6083 (0,56); 1,5973 (1,94); 1,5776 (1,60); 1,5609 (0,66); 1,4187 (0,34); 1,4000 (1,17); 1,3810 (1,87); 1,3622 (1,88); 1,3440 (1,11); 1,3258 (0,33); 0,9317 (4,32); 0,9134 (8,71); 0,8949 (3,74)
Ejemplo 216, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5582 (1,05); 7,9544 (1,11); 7,7470 (0,32); 7,7413 (2,15); 7,7387 (2,76); 7,7347 (1,32); 7,7262 (0,86); 7,7210 (3,62); 7,7172 (2,52); 7,5674 (0,49); 7,5560 (0,36); 7,5491 (1,76); 7,5432 (0,51); 7,5344 (0,97); 7,5310 (1,57); 7,5275 (0,78); 7,5049 (2,60); 7,5016 (1,11); 7,4899 (1,71); 7,4859 (3,25); 7,4721 (0,83); 7,4683 (1,54); 7,4629 (4,55); 7,4574 (1,28); 7,4458 (1,34); 7,4403 (4,55); 7,4316 (0,41); 7,3404 (4,75); 6,9039

(0,43); 6,8952 (4,38); 6,8896 (1,27); 6,8781 (1,27); 6,8725 (4,02); 6,8638 (0,35); 5,3399 (5,85); 5,0656 (0,39); 5,0491 (1,47); 5,0325 (1,49); 5,0160 (0,40); 3,3352 (22,31); 3,0226 (16,00); 3,0128 (0,57); 2,8912 (8,97); 2,7333 (7,30); 2,5220 (0,50); 2,5135 (6,25); 2,5090 (12,45); 2,5044 (16,32); 2,4998 (11,74); 2,4953 (5,52); 1,5486 (5,61); 1,5321 (5,54); -0,0002 (6,50)

Ejemplo 217, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7035 (2,17); 8,1584 (1,52); 8,1385 (1,80); 8,0607 (0,41); 8,0534 (3,55); 8,0483 (1,09); 8,0362 (1,12); 8,0310 (3,79); 8,0237 (0,39); 7,9032 (2,27); 7,8982 (0,43); 7,8814 (2,19); 7,8633 (1,17); 7,7391 (1,86); 7,7365 (2,49); 7,7326 (1,22); 7,7239 (0,74); 7,7188 (3,28); 7,7150 (2,28); 7,5676 (0,47); 7,5558 (0,34); 7,5493 (1,59); 7,5436 (0,49); 7,5344 (0,85); 7,5310 (1,40); 7,5276 (0,72); 7,5015 (2,31); 7,4981 (1,00); 7,4862 (1,56); 7,4824 (2,94); 7,4689 (0,47); 7,4648 (1,19); 7,4615 (0,66); 7,3845 (0,61); 7,3625 (0,68); 7,2064 (1,66); 7,1889 (1,60); 7,0537 (0,41); 7,0465 (3,74); 7,0413 (1,12); 7,0350 (0,33); 7,0281 (2,08); 7,0241 (3,79); 7,0167 (0,40); 7,0109 (0,36); 7,0057 (1,09); 6,9765 (0,68); 6,9545 (0,58); 5,4143 (5,66); 3,8499 (0,99); 3,8405 (16,00); 3,8284 (0,59); 3,8236 (5,06); 3,7995 (0,60); 3,7894 (2,83); 3,3430 (69,40); 3,0831 (15,12); 2,9456 (2,95); 2,8910 (2,46); 2,7848 (0,45); 2,7498 (0,58); 2,7325 (1,96); 2,7313 (1,94); 2,5261 (0,61); 2,5213 (0,96); 2,5127 (12,40); 2,5082 (24,80); 2,5036 (32,75); 2,4990 (23,81); 2,4945 (11,31); -0,0002 (2,77)

Ejemplo 218, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,4625 (2,01); 8,0034 (1,43); 7,9831 (1,88); 7,9533 (0,39); 7,8580 (1,31); 7,8387 (1,79); 7,8185 (1,11); 7,7185 (2,58); 7,7147 (1,24); 7,7058 (0,86); 7,7007 (3,40); 7,6969 (2,40); 7,5632 (0,49); 7,5511 (0,36); 7,5449 (1,63); 7,5393 (0,48); 7,5299 (0,86); 7,5266 (1,40); 7,5232 (0,72); 7,5071 (1,65); 7,5030 (2,25); 7,4932 (2,71); 7,4896 (2,35); 7,4861 (2,95); 7,4836 (2,50); 7,4778 (1,97); 7,4741 (3,20); 7,4605 (0,51); 7,4564 (1,26); 7,4533 (0,72); 7,3952 (0,80); 7,3909 (1,14); 7,3864 (0,48); 7,3738 (3,05); 7,3698 (1,30); 7,3554 (2,17); 7,3495 (0,42); 7,3454 (0,89); 7,3416 (1,60); 7,3378 (0,87); 7,3309 (0,47); 7,3241 (1,43); 7,3059 (0,37); 7,1874 (1,78); 7,1696 (1,70); 5,3745 (6,07); 5,0204 (3,59); 3,3353 (28,56); 3,3316 (77,85); 3,2150 (0,44); 3,0702 (0,39); 3,0548 (16,00); 2,8903 (3,14); 2,7319 (2,49); 2,7309 (2,46); 2,5251 (0,63); 2,5203 (1,02); 2,5118 (13,84); 2,5073 (27,81); 2,5027 (36,70); 2,4981 (26,57); 2,4935 (12,61); 0,0079 (0,46); -0,0002 (13,90); -0,0086 (0,42)

Ejemplo 219, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,3592 (1,32); 7,9533 (0,68); 7,7409 (1,96); 7,7382 (2,70); 7,7343 (1,37); 7,7258 (0,85); 7,7206 (3,52); 7,7168 (2,52); 7,5664 (0,50); 7,5631 (0,33); 7,5549 (0,36); 7,5480 (1,71); 7,5422 (0,55); 7,5334 (0,96); 7,5299 (1,57); 7,5264 (0,83); 7,5038 (2,57); 7,5005 (1,17); 7,4888 (1,66); 7,4848 (3,19); 7,4714 (0,58); 7,4673 (1,33); 7,4638 (0,78); 7,3323 (4,48); 7,0164 (0,90); 7,0128 (1,01); 6,9962 (1,87); 6,9925 (1,84); 6,9649 (0,89); 6,9599 (1,00); 6,9477 (1,11); 6,9428 (1,33); 6,9275 (0,64); 6,9226 (0,78); 6,8840 (0,56); 6,8792 (0,83); 6,8640 (2,19); 6,8592 (1,79); 6,8513 (1,54); 6,8476 (1,51); 6,8341 (1,13); 6,8304 (1,24); 6,8141 (0,47); 6,8102 (0,46); 5,3384 (5,74); 4,9686 (0,39); 4,9521 (1,50); 4,9354 (1,53); 4,9188 (0,43); 3,7803 (15,50); 3,3322 (39,87); 3,0186 (16,00); 2,8903 (5,50); 2,7322 (4,29); 2,7310 (4,44); 2,5254 (0,43); 2,5206 (0,68); 2,5120 (8,09); 2,5075 (16,53); 2,5029 (22,20); 2,4983 (16,46); 2,4938 (8,35); 1,5410 (5,49); 1,5244 (5,58); -0,0002 (4,39)

Ejemplo 220, Disolvente: DMSO, Espectrómetro: 400,13 MHz

7,7516 (2,80); 7,7338 (3,40); 7,7300 (2,55); 7,5760 (0,59); 7,5729 (0,47); 7,5645 (0,53); 7,5576 (1,83); 7,5519 (0,74); 7,5428 (1,18); 7,5396 (1,71); 7,5363 (1,09); 7,5131 (3,48); 7,5098 (2,53); 7,4980 (2,72); 7,4941 (4,04); 7,4868 (1,96); 7,4809 (1,58); 7,4765 (2,09); 7,4665 (2,66); 7,4470 (2,14); 7,3462 (2,33); 7,3286 (2,42); 5,7603 (5,19); 5,3835 (3,93); 4,0432 (0,38); 4,0253 (0,38); 3,3241 (11,73); 3,2913 (0,73); 3,0156 (16,00); 2,5157 (10,03); 2,5114 (19,41); 2,5069 (25,78); 2,5025 (18,91); 2,4982 (9,74); 1,9934 (1,62); 1,2390 (0,35); 1,1972 (0,47); 1,1794 (0,87); 1,1616 (0,44)

Ejemplo 221, Disolvente: DMSO, Espectrómetro: 399,95 MHz

9,7726 (1,32); 8,0140 (1,09); 7,9940 (1,36); 7,8377 (0,93); 7,8186 (1,24); 7,7982 (0,83); 7,7246 (1,90); 7,7207 (0,96); 7,7120 (0,61); 7,7068 (2,55); 7,7030 (1,73); 7,5640 (0,34); 7,5457 (1,16); 7,5400 (0,39); 7,5308 (0,62); 7,5274 (1,00); 7,5241 (0,54); 7,4960 (1,77); 7,4927 (0,77); 7,4806 (1,22); 7,4769 (2,26); 7,4633 (0,36); 7,4592 (0,90); 7,4560 (0,51); 7,1523 (1,24); 7,1347 (1,19); 5,3791 (4,39); 3,3293 (39,08); 3,0881 (0,67); 3,0728 (10,99); 2,8909 (1,10); 2,7321 (0,82); 2,7314 (0,83); 2,5252 (0,36); 2,5204 (0,60); 2,5119 (7,76); 2,5074 (15,47); 2,5028 (20,42); 2,4982 (14,82); 2,4937 (7,08); 1,6926 (0,46); 1,6739 (1,57); 1,6552 (1,66); 1,6367 (0,54); 1,2342 (0,41); 1,1827 (16,00); 0,8759 (0,37); 0,7918 (1,95); 0,7734 (4,41); 0,7546 (1,80); -0,0002 (5,77)

Ejemplo 222, Disolvente: DMSO, Espectrómetro: 399,95 MHz

8,5738 (2,41); 7,9525 (1,26); 7,9479 (1,67); 7,9270 (2,16); 7,8491 (1,43); 7,8301 (1,83); 7,8097 (1,07); 7,6954 (2,56); 7,6917 (1,25); 7,6822 (3,74); 7,6772 (5,94); 7,6741 (2,68); 7,6205 (2,37); 7,5997 (3,24); 7,5619 (0,50); 7,5497 (0,38); 7,5436 (1,66); 7,5380 (0,48); 7,5285 (0,88); 7,5252 (1,38); 7,5219 (0,68); 7,4951 (2,62); 7,4901 (3,70); 7,4744 (3,09); 7,4716 (3,48); 7,4692 (2,48); 7,4579 (0,52); 7,4539 (1,24); 7,4508 (0,69); 7,1560 (1,77); 7,1376 (1,72); 5,3008 (6,18); 3,3416 (164,31); 3,0054 (16,00); 2,8912 (9,12); 2,7323 (7,55); 2,5258 (0,81); 2,5209 (1,29); 2,5124 (15,83); 2,5079 (31,43); 2,5033 (41,17); 2,4987 (29,73); 2,4942 (14,01); 1,6912 (0,88); 1,6804 (2,43); 1,6730 (2,57); 1,6628 (0,91); 1,2167 (1,03); 1,2064 (2,45); 1,1990 (2,45); 1,1883 (0,87); -0,0002 (4,60)

Ejemplo 223, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,0714 (2,63); 7,8267 (0,37); 7,8057 (2,13); 7,7975 (2,44); 7,7913 (5,42); 7,7766 (0,48); 7,5376 (2,16); 7,5222 (0,62); 7,5175 (0,54); 7,5136 (0,92); 7,5102 (0,98); 7,5046 (0,59); 7,5008 (0,90); 7,4962 (0,66); 7,3885 (0,33); 7,3694 (2,27); 7,3634 (1,53); 7,3575 (3,16); 7,3550 (3,12); 7,0922 (1,26); 7,0856 (1,22); 7,0779 (1,12); 7,0714 (1,20); 5,7640 (3,25); 5,3237 (6,55); 4,9274 (0,43); 4,9146 (0,58); 4,9121 (0,58); 4,9061 (0,55); 4,8993 (0,56); 4,8933 (0,59); 4,8780 (0,44); 3,3275 (11,77); 3,3047 (0,75); 3,0654 (16,00); 2,5322 (0,33); 2,5187 (7,70); 2,5143 (15,83); 2,5098 (21,48); 2,5053 (15,33); 2,5008 (7,18); 2,3394 (10,43); 1,6989 (0,49); 1,6803 (0,60); 1,6636 (0,57); 1,6472 (0,36); 1,5939 (0,54); 1,5791 (0,43); 1,5725 (0,56); 1,5592 (0,89); 1,5448 (0,60); 1,5382 (0,70); 1,5234 (0,54); 1,3592 (0,64); 1,3469 (0,71); 1,3391 (0,60); 1,3259 (0,94); 1,3126 (0,53); 1,3048 (0,55); 1,2923 (0,52); 1,2477 (0,81); 1,2371 (6,90); 1,2216 (6,73); 0,9042 (9,66); 0,9030 (9,64); 0,8876 (9,68); 0,8652 (0,97); 0,8475 (0,40)

Ejemplo 224, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,1980 (3,39); 7,8358 (0,41); 7,8147 (2,34); 7,8062 (2,58); 7,8002 (5,62); 7,7854 (0,50); 7,5391 (2,45); 7,5237 (0,72); 7,5147 (1,02); 7,5115

(1,07); 7,5019 (1,01); 7,3891 (0,34); 7,3697 (2,62); 7,3573 (3,50); 7,0973 (1,39); 7,0910 (1,36); 7,0829 (1,22); 7,0766 (1,33); 5,7683 (4,33); 5,3284 (7,17); 4,1036 (2,10); 4,0868 (4,54); 4,0701 (2,17); 3,4000 (1,14); 3,3497 (84,51); 3,3260 (0,53); 3,2994 (1,10); 3,0734 (0,39); 3,0591 (16,00); 2,5646 (0,34); 2,5601 (0,45); 2,5319 (0,57); 2,5141 (30,36); 2,5097 (41,01); 2,5054 (29,94); 2,4686 (0,34); 2,4639 (0,48); 2,4595 (0,56); 2,4550 (0,38); 2,3375 (11,99); 1,9964 (0,43); 1,6310 (1,02); 1,6137 (1,65); 1,5967 (1,19); 1,5796 (0,38); 1,3485 (1,17); 1,3380 (2,06); 1,3307 (4,06); 1,3216 (3,23); 1,3127 (2,74); 1,2510 (0,54); 0,9036 (2,02); 0,8863 (5,30); 0,8686 (1,84); 0,8643 (1,22); 0,8462 (0,38)

Ejemplo 225, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1956 (2,22); 7,8322 (0,50); 7,8112 (1,95); 7,7954 (3,65); 7,7935 (3,12); 7,7773 (0,55); 7,7256 (2,01); 7,7229 (2,56); 7,7191 (1,23); 7,7104 (0,83); 7,7052 (3,34); 7,7015 (2,26); 7,5628 (0,49); 7,5510 (0,39); 7,5445 (1,63); 7,5387 (0,49); 7,5296 (0,90); 7,5262 (1,42); 7,5228 (0,72); 7,4959 (2,39); 7,4925 (1,00); 7,4806 (1,70); 7,4768 (3,04); 7,4633 (0,51); 7,4591 (1,21); 7,4559 (0,65); 7,1031 (1,30); 7,0981 (1,30); 7,0874 (1,19); 7,0824 (1,22); 5,3352 (6,27); 3,8862 (4,75); 3,8695 (4,79); 3,3373 (121,73); 3,0652 (16,00); 2,8909 (2,35); 2,7322 (1,87); 2,7312 (1,83); 2,5254 (0,77); 2,5121 (14,62); 2,5076 (29,05); 2,5030 (38,16); 2,4984 (27,63); 2,4938 (13,18); 1,9416 (0,40); 1,9248 (0,83); 1,9081 (1,06); 1,8913 (0,85); 1,8746 (0,43); 1,2347 (0,32); 0,9272 (14,67); 0,9104 (14,23); 0,8980 (0,66); -0,0002 (6,10)

Ejemplo 226, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,2218 (3,02); 7,8377 (0,71); 7,8167 (1,86); 7,7995 (2,39); 7,7932 (2,26); 7,7901 (2,53); 7,7724 (0,83); 7,7692 (0,58); 7,7302 (2,78); 7,7171 (0,84); 7,7122 (3,46); 7,7085 (2,45); 7,5686 (0,50); 7,5656 (0,32); 7,5566 (0,40); 7,5503 (1,73); 7,5447 (0,53); 7,5353 (0,95); 7,5321 (1,45); 7,5289 (0,75); 7,5016 (2,50); 7,4859 (1,73); 7,4823 (3,19); 7,4686 (0,49); 7,4647 (1,20); 7,4616 (0,70); 7,1152 (1,49); 7,1120 (1,51); 7,0981 (1,44); 7,0949 (1,40); 5,7683 (0,91); 5,3344 (6,56); 4,9204 (0,64); 4,9051 (1,36); 4,8896 (1,37); 4,8743 (0,63); 3,4000 (1,26); 3,3505 (106,77); 3,3008 (1,03); 3,0791 (16,00); 2,9380 (1,30); 2,9314 (3,01); 2,9249 (1,33); 2,5636 (0,42); 2,5591 (0,59); 2,5546 (0,47); 2,5499 (0,35); 2,5375 (2,16); 2,5314 (2,82); 2,5183 (17,62); 2,5142 (34,59); 2,5097 (45,30); 2,5052 (32,26); 2,5009 (15,00); 2,4645 (0,37); 2,4599 (0,48); 2,4556 (0,38); 1,3707 (0,74); 1,3200 (6,79); 1,3042 (6,76)

Ejemplo 227, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,3769 (2,12); 8,0203 (1,54); 8,0001 (2,07); 7,9530 (0,94); 7,8853 (1,40); 7,8659 (1,92); 7,8458 (1,15); 7,7280 (2,72); 7,7151 (0,85); 7,7101 (3,50); 7,7063 (2,50); 7,5663 (0,50); 7,5631 (0,33); 7,5543 (0,38); 7,5479 (1,73); 7,5423 (0,51); 7,5329 (0,91); 7,5297 (1,46); 7,5264 (0,77); 7,4980 (2,53); 7,4824 (1,75); 7,4788 (3,27); 7,4651 (0,54); 7,4611 (1,29); 7,4580 (0,74); 7,3286 (0,71); 7,3242 (0,87); 7,3064 (1,40); 7,2330 (0,75); 7,2286 (0,63); 7,2166 (2,17); 7,2123 (3,66); 7,2078 (2,41); 7,2021 (2,00); 7,1943 (3,30); 7,1863 (0,89); 7,1709 (0,38); 5,4621 (2,62); 5,3902 (6,51); 4,3243 (0,42); 4,3113 (0,77); 4,2972 (0,89); 4,2828 (0,88); 4,2702 (0,49); 3,9033 (0,48); 3,8924 (0,66); 3,8846 (0,59); 3,8744 (0,88); 3,8645 (0,55); 3,8567 (0,57); 3,8458 (0,46); 3,3316 (69,84); 3,0853 (0,63); 3,0755 (16,00); 2,9850 (0,34); 2,9798 (0,33); 2,9566 (0,44); 2,9434 (0,54); 2,9387 (0,53); 2,9261 (0,38); 2,8903 (7,59); 2,8083 (0,40); 2,7962 (0,71); 2,7836 (0,44); 2,7549 (0,48); 2,7313 (6,08); 2,5248 (0,66); 2,5115 (13,88); 2,5070 (27,45); 2,5024 (36,12); 2,4978 (26,26); 2,4934 (12,61); -0,0002 (8,08)

Ejemplo 228, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,3312 (2,87); 7,8479 (0,61); 7,8269 (1,78); 7,8098 (2,61); 7,8066 (2,36); 7,8027 (2,46); 7,7855 (0,71); 7,7818 (0,44); 7,4213 (1,02); 7,4013 (2,19); 7,3813 (1,58); 7,2835 (1,46); 7,2813 (1,28); 7,2640 (1,21); 7,2619 (1,00); 7,2465 (1,57); 7,2407 (1,98); 7,2365 (1,36); 7,1432 (1,10); 7,1415 (1,15); 7,1369 (1,03); 7,1352 (0,99); 7,1227 (2,32); 7,1200 (2,09); 7,1060 (1,36); 7,1023 (1,31); 5,7685 (0,68); 5,3409 (5,98); 4,1955 (1,97); 4,1789 (4,28); 4,1622 (1,97); 3,7894 (16,00); 3,3943 (0,40); 3,3449 (25,89); 3,0753 (0,38); 3,0602 (14,66); 2,9234 (1,30); 2,9168 (2,93); 2,9102 (1,37); 2,5796 (1,18); 2,5729 (1,25); 2,5630 (2,80); 2,5563 (2,68); 2,5463 (1,26); 2,5396 (1,16); 2,5322 (0,65); 2,5186 (9,84); 2,5143 (19,78); 2,5099 (26,44); 2,5054 (18,87); 2,5011 (8,77); 2,4605 (0,33)

Ejemplo 229, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,3982 (0,67); 7,9527 (0,74); 7,7410 (2,02); 7,7384 (2,73); 7,7344 (1,32); 7,7260 (0,80); 7,7208 (3,54); 7,7170 (2,45); 7,5667 (0,50); 7,5634 (0,33); 7,5553 (0,35); 7,5483 (1,74); 7,5425 (0,52); 7,5337 (0,95); 7,5303 (1,58); 7,5268 (0,78); 7,5048 (2,58); 7,5013 (1,09); 7,4897 (1,64); 7,4857 (3,18); 7,4724 (0,49); 7,4682 (1,26); 7,4647 (0,69); 7,3301 (4,81); 7,1016 (2,47); 7,0812 (2,92); 6,8624 (0,45); 6,8550 (3,93); 6,8498 (1,19); 6,8384 (1,10); 6,8334 (3,31); 5,3406 (5,96); 4,7940 (7,63); 3,6954 (0,43); 3,3486 (86,86); 3,0357 (0,38); 3,0206 (16,00); 3,0111 (0,61); 2,8904 (6,12); 2,7322 (4,75); 2,7312 (4,80); 2,5261 (0,45); 2,5213 (0,71); 2,5127 (8,80); 2,5082 (17,65); 2,5036 (23,41); 2,4990 (16,97); 2,4944 (8,04); 2,2230 (10,05); -0,0002 (1,03)

Ejemplo 230, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,9090 (2,21); 8,0883 (1,25); 8,0676 (1,49); 7,8495 (1,30); 7,8301 (1,82); 7,8100 (1,21); 7,7200 (2,78); 7,7162 (1,39); 7,7070 (0,93); 7,7022 (3,52); 7,6984 (2,50); 7,5604 (0,50); 7,5573 (0,33); 7,5484 (0,38); 7,5419 (1,68); 7,5364 (0,51); 7,5271 (0,91); 7,5238 (1,45); 7,5205 (0,76); 7,4927 (2,53); 7,4772 (1,75); 7,4735 (3,21); 7,4599 (0,51); 7,4558 (1,25); 7,4527 (0,73); 7,3123 (1,16); 7,2942 (3,15); 7,2753 (2,45); 7,2162 (1,18); 7,2132 (0,91); 7,1978 (1,71); 7,1927 (0,63); 7,1817 (2,96); 7,1784 (3,48); 7,1607 (2,43); 7,1520 (2,10); 7,1328 (1,81); 5,3541 (6,10); 3,3297 (58,71); 3,0519 (16,00); 2,8903 (1,67); 2,7311 (1,34); 2,5248 (0,69); 2,5115 (12,61); 2,5070 (24,94); 2,5025 (32,88); 2,4979 (24,08); 2,4934 (11,66); 2,4261 (0,35); 2,4161 (0,60); 2,4105 (0,54); 2,4004 (0,80); 2,3935 (0,94); 2,3892 (0,84); 2,3775 (1,29); 2,3694 (0,71); 2,3565 (0,66); 1,5034 (0,51); 1,4929 (0,72); 1,4904 (0,69); 1,4804 (0,96); 1,4705 (0,67); 1,4678 (0,69); 1,4574 (0,52); 1,3763 (0,56); 1,3660 (0,62); 1,3602 (0,69); 1,3559 (0,80); 1,3502 (0,74); 1,3460 (0,60); 1,3399 (0,68); 1,3297 (0,48); 0,8756 (0,43); -0,0002 (6,50)

Ejemplo 231, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7963 (2,26); 8,0278 (1,31); 8,0071 (1,72); 7,9529 (0,79); 7,8784 (1,37); 7,8590 (1,92); 7,8389 (1,17); 7,7282 (2,93); 7,7245 (1,59); 7,7104 (3,62); 7,7067 (2,63); 7,5691 (0,52); 7,5660 (0,37); 7,5570 (0,41); 7,5505 (1,74); 7,5452 (0,57); 7,5357 (0,96); 7,5325 (1,52); 7,5293 (0,84); 7,5006 (2,64); 7,4851 (1,91); 7,4814 (3,34); 7,4613 (2,30); 7,4575 (1,90); 7,4416 (1,73); 7,4377 (1,73); 7,2908 (0,73); 7,2868 (0,73); 7,2700 (1,27); 7,2685 (1,29); 7,2663 (1,15); 7,2514 (0,99); 7,2474 (0,93); 7,2101 (1,99); 7,1916 (1,89); 7,0172 (1,50); 7,0144 (1,78); 6,9963 (1,41); 6,9935 (1,50); 6,9875 (1,16); 6,9843 (0,97); 6,9681 (1,66); 6,9652 (1,45); 6,9492 (0,86); 6,9460 (0,79); 5,3872 (6,51); 5,1665 (0,33); 5,1503 (1,11); 5,1337 (1,11); 5,1174 (0,35); 3,3803 (0,39); 3,3414 (130,53); 3,0658 (16,00); 3,0355 (0,46); 2,8907 (6,04); 2,7314 (5,07); 2,5258 (0,73);

2,5123 (14,56); 2,5080 (28,22); 2,5035 (36,82); 2,4989 (27,18); 2,4945 (13,39); 1,5828 (5,84); 1,5664 (5,80); -0,0002 (1,18)
Ejemplo 232, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7787 (1,95); 8,0189 (1,31); 7,9983 (1,69); 7,9532 (0,55); 7,8653 (1,35); 7,8461 (1,83); 7,8258 (1,16); 7,7272 (2,57); 7,7234 (1,25); 7,7145 (0,74); 7,7094 (3,36); 7,7057 (2,40); 7,5689 (0,48); 7,5569 (0,35); 7,5506 (1,66); 7,5449 (0,47); 7,5356 (0,85); 7,5323 (1,41); 7,5289 (0,72); 7,5003 (2,42); 7,4970 (1,03); 7,4848 (1,62); 7,4811 (3,12); 7,4675 (0,47); 7,4635 (1,23); 7,4603 (0,70); 7,2993 (1,74); 7,2941 (0,64); 7,2795 (2,38); 7,2775 (2,63); 7,2642 (0,73); 7,2592 (2,22); 7,1981 (1,82); 7,1803 (1,74); 6,9484 (0,98); 6,9463 (0,76); 6,9304 (2,22); 6,9270 (3,58); 6,9243 (3,02); 6,9093 (1,68); 6,9048 (3,02); 5,3845 (6,13); 5,0933 (0,33); 5,0770 (1,15); 5,0605 (1,16); 5,0441 (0,33); 3,3446 (117,32); 3,0603 (16,00); 2,8909 (4,49); 2,7323 (3,65); 2,7313 (3,50); 2,5261 (0,52); 2,5214 (0,82); 2,5128 (11,33); 2,5083 (23,02); 2,5037 (30,58); 2,4991 (22,28); 2,4946 (10,69); 1,5360 (5,77); 1,5196 (5,72); -0,0002 (0,43)
Ejemplo 233, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8433 (1,76); 7,8017 (0,42); 7,7807 (1,17); 7,7635 (1,52); 7,7578 (1,37); 7,7544 (1,57); 7,7368 (0,69); 7,7329 (1,58); 7,7303 (1,75); 7,7264 (0,84); 7,7177 (0,51); 7,7125 (2,21); 7,7088 (1,56); 7,5515 (1,08); 7,5458 (0,33); 7,5366 (0,58); 7,5332 (0,95); 7,5299 (0,48); 7,5030 (1,56); 7,4997 (0,69); 7,4876 (1,05); 7,4839 (1,99); 7,4662 (0,78); 7,4630 (0,45); 7,0807 (0,91); 7,0773 (0,93); 7,0637 (0,88); 7,0603 (0,87); 5,7638 (0,90); 5,3261 (4,14); 3,3823 (0,95); 3,3324 (57,48); 3,3086 (0,49); 3,2824 (0,64); 3,0700 (10,61); 2,5275 (0,43); 2,5189 (6,42); 2,5144 (13,43); 2,5099 (18,41); 2,5054 (13,05); 2,5009 (6,05); 1,7497 (0,75); 1,7375 (0,59); 1,7292 (0,73); 1,7186 (0,63); 1,7080 (0,96); 1,4418 (16,00); 1,4017 (0,48); 1,3916 (0,52); 1,3827 (0,66); 1,3716 (1,01); 1,3611 (0,63); 1,3542 (0,40); 1,3419 (0,43); 0,9098 (1,87); 0,8917 (3,99); 0,8732 (1,65)
Ejemplo 234, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5653 (1,63); 7,6272 (1,07); 7,6216 (1,06); 7,6183 (0,95); 7,6151 (1,26); 7,6116 (0,90); 7,6064 (0,94); 7,5956 (2,93); 7,5705 (0,78); 7,5564 (0,88); 7,5503 (1,17); 7,5360 (1,22); 7,5309 (0,70); 7,5152 (0,52); 7,4333 (0,58); 7,4306 (0,62); 7,4271 (0,56); 7,4243 (0,54); 7,4096 (1,04); 7,4050 (0,96); 7,3916 (4,93); 7,0153 (1,26); 6,9969 (1,68); 6,9946 (1,59); 6,9161 (0,66); 6,9085 (0,87); 6,9015 (0,93); 6,8938 (1,45); 6,8896 (0,57); 6,8817 (0,73); 6,8746 (1,81); 6,8634 (4,76); 6,8593 (2,94); 6,8484 (1,09); 6,8444 (0,87); 5,7631 (5,16); 5,3684 (5,98); 5,1570 (1,07); 5,1486 (1,99); 5,1388 (1,10); 4,4380 (2,18); 4,4330 (2,40); 4,4277 (2,64); 3,3982 (3,66); 3,3484 (263,44); 3,2987 (2,86); 3,0116 (16,00); 2,6771 (0,37); 2,5622 (0,63); 2,5578 (0,87); 2,5533 (0,67); 2,5486 (0,42); 2,5303 (1,19); 2,5168 (23,67); 2,5125 (47,68); 2,5081 (63,56); 2,5037 (45,37); 2,4994 (21,41); 2,4630 (0,55); 2,4585 (0,70); 2,4539 (0,50); 2,3350 (0,37)
Ejemplo 235, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5169 (2,26); 8,0834 (1,34); 8,0627 (1,59); 7,8340 (1,29); 7,8147 (1,83); 7,7945 (1,19); 7,7230 (2,73); 7,7101 (0,89); 7,7051 (3,54); 7,7014 (2,49); 7,5638 (0,51); 7,5607 (0,33); 7,5519 (0,39); 7,5455 (1,69); 7,5399 (0,52); 7,5305 (0,92); 7,5272 (1,45); 7,5239 (0,75); 7,4957 (2,49); 7,4801 (1,78); 7,4765 (3,19); 7,4628 (0,52); 7,4588 (1,25); 7,4557 (0,72); 7,1443 (1,87); 7,1264 (1,80); 5,3554 (6,40); 5,0926 (0,44); 5,0895 (0,38); 5,0780 (0,74); 5,0747 (0,89); 5,0603 (0,39); 5,0572 (0,44); 3,3279 (52,28); 3,0528 (16,00); 2,5251 (0,72); 2,5118 (12,64); 2,5073 (24,46); 2,5028 (31,75); 2,4982 (23,07); 2,4937 (11,05); 2,3968 (0,66); 2,3814 (0,71); 2,3618 (0,95); 2,3463 (1,02); 2,2453 (0,94); 2,2253 (1,06); 2,2104 (0,64); 2,1902 (0,73); 1,9797 (0,75); 1,9619 (1,27); 1,9440 (1,28); 1,9270 (0,84); 1,9093 (0,43); 1,6557 (0,55); 1,6297 (6,45); 1,5525 (7,37); 1,3547 (0,33); 1,3376 (0,44); 1,3332 (0,36); 1,3208 (0,49); 1,3150 (0,44); 1,3068 (0,36); 1,2996 (0,41); 1,1983 (0,48); 1,1857 (0,51); 1,1785 (0,43); 1,1718 (0,32); 1,1637 (0,48); 0,9019 (5,82); 0,8853 (5,69); 0,0079 (0,36); -0,0002 (8,83)
Ejemplo 236, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,6688 (4,49); 7,6461 (5,37); 7,4378 (7,28); 7,4124 (7,11); 7,3906 (3,09); 7,2619 (12,61); 6,5633 (2,62); 6,5419 (2,50); 6,3065 (2,64); 6,2784 (2,51); 5,2285 (10,11); 4,4256 (1,25); 3,7686 (1,43); 3,1067 (16,00); 2,0868 (0,99); 1,7385 (3,38); 1,6955 (5,73); 1,6524 (4,11); 1,4633 (1,09); 1,4367 (2,16); 1,4101 (2,73); 1,3263 (1,92); 1,2933 (2,12); 1,2537 (2,36); 1,2075 (2,41); 1,1744 (12,09); 1,1557 (10,90); 0,9880 (0,76); 0,9493 (1,94); 0,9057 (2,30); 0,8694 (1,58); -0,0002 (8,47)
Ejemplo 237, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,9450 (1,79); 8,0365 (0,79); 8,0157 (1,02); 7,9532 (0,86); 7,9012 (1,37); 7,8819 (1,86); 7,8617 (1,11); 7,7234 (2,67); 7,7197 (1,31); 7,7106 (0,79); 7,7056 (3,43); 7,7018 (2,42); 7,5661 (0,48); 7,5541 (0,35); 7,5477 (1,63); 7,5421 (0,49); 7,5327 (0,86); 7,5295 (1,40); 7,5261 (0,74); 7,4977 (2,43); 7,4822 (1,67); 7,4785 (3,12); 7,4649 (0,48); 7,4609 (1,21); 7,4578 (0,71); 7,2230 (1,81); 7,2048 (1,73); 5,3795 (6,53); 3,6620 (0,59); 3,6342 (1,83); 3,6063 (1,88); 3,5784 (0,64); 3,3291 (63,12); 3,0552 (16,00); 2,8907 (6,74); 2,7312 (5,41); 2,5251 (0,64); 2,5117 (12,44); 2,5072 (24,80); 2,5027 (32,66); 2,4981 (23,87); 2,4936 (11,50); 0,0080 (0,36); -0,0002 (10,95); -0,0085 (0,34)
Ejemplo 238, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2540 (2,69); 7,9534 (0,87); 7,8225 (0,71); 7,8015 (1,78); 7,7841 (2,12); 7,7740 (2,08); 7,7714 (2,26); 7,7533 (0,82); 7,7504 (0,62); 7,7227 (2,70); 7,7099 (0,85); 7,7049 (3,49); 7,7011 (2,48); 7,5631 (0,51); 7,5600 (0,33); 7,5513 (0,38); 7,5448 (1,71); 7,5392 (0,52); 7,5299 (1,01); 7,5266 (1,51); 7,5233 (0,77); 7,4991 (4,62); 7,4958 (3,54); 7,4781 (6,63); 7,4631 (0,53); 7,4590 (1,26); 7,4558 (0,73); 7,2932 (4,02); 7,2767 (1,37); 7,2722 (3,31); 7,2602 (0,56); 7,2438 (0,49); 7,1047 (1,54); 7,1018 (1,53); 7,0873 (1,51); 7,0844 (1,44); 5,3312 (6,46); 4,2908 (1,61); 4,2741 (3,64); 4,2575 (1,66); 3,3302 (61,62); 3,0610 (16,00); 2,9281 (1,43); 2,9115 (2,95); 2,8907 (7,28); 2,7320 (5,51); 2,5252 (0,69); 2,5203 (1,10); 2,5118 (13,33); 2,5073 (26,35); 2,5028 (34,64); 2,4982 (25,35); 2,4937 (12,29); 1,2348 (0,35); -0,0002 (7,26)
Ejemplo 239, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,9040 (0,97); 7,9531 (0,94); 7,7274 (2,91); 7,7146 (0,91); 7,7096 (3,62); 7,7058 (2,54); 7,5600 (0,51); 7,5570 (0,33); 7,5486 (0,41); 7,5417 (1,78); 7,5360 (0,53); 7,5269 (1,04); 7,5237 (1,56); 7,5203 (0,80); 7,4973 (2,67); 7,4819 (1,89); 7,4781 (3,33); 7,4646 (0,59); 7,4606 (1,30); 7,4571 (0,81); 7,4380 (0,67); 7,4328 (1,09); 7,4264 (0,64); 7,4159 (4,82); 7,4127 (5,70); 7,3966 (3,78); 7,3915 (1,18); 7,3817 (1,87); 7,3773 (1,49); 7,3713 (1,12); 7,3661 (1,38); 7,3596 (0,79); 7,3494 (1,08); 7,2723 (4,67); 5,2853 (6,47); 5,2229 (8,16); 5,1615 (0,81); 3,3291 (51,70); 3,0358 (0,47); 3,0245 (16,00); 2,8903 (7,20); 2,7315 (5,92); 2,5245 (0,76); 2,5112 (13,86); 2,5068 (26,69); 2,5023 (34,48); 2,4977 (24,97); 2,4933 (11,96); 0,0078 (0,44); -0,0002 (11,95); -0,0085 (0,41)

Ejemplo 240, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,9471 (2,07); 8,0542 (1,28); 8,0335 (1,59); 7,8817 (1,33); 7,8623 (1,94); 7,8422 (1,14); 7,7245 (2,73); 7,7067 (3,47); 7,7030 (2,51); 7,5643 (0,51); 7,5611 (0,34); 7,5523 (0,38); 7,5460 (1,68); 7,5403 (0,54); 7,5310 (0,95); 7,5277 (1,46); 7,5244 (0,79); 7,4962 (2,52); 7,4806 (1,84); 7,4770 (3,22); 7,4633 (0,54); 7,4593 (1,26); 7,4563 (0,76); 7,1912 (1,89); 7,1730 (1,82); 5,3689 (6,74); 4,0933 (8,50); 3,5200 (2,54); 3,5037 (5,27); 3,4873 (2,59); 3,3292 (45,74); 3,0719 (16,00); 2,5251 (0,59); 2,5117 (11,15); 2,5073 (21,82); 2,5028 (28,55); 2,4982 (21,20); 2,4939 (10,54); 1,5736 (0,45); 1,5563 (1,48); 1,5500 (0,55); 1,5397 (1,95); 1,5199 (1,60); 1,5036 (0,68); 1,3975 (0,36); 1,3791 (1,22); 1,3599 (1,86); 1,3410 (1,85); 1,3231 (1,07); 0,9122 (4,40); 0,8938 (8,76); 0,8753 (3,72); -0,0002 (6,95)
Ejemplo 241, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,0140 (2,97); 7,8384 (4,05); 7,8278 (4,28); 7,7290 (2,77); 7,7111 (3,50); 7,7074 (2,47); 7,5694 (0,51); 7,5573 (0,43); 7,5511 (1,72); 7,5455 (0,54); 7,5360 (0,97); 7,5328 (1,47); 7,5013 (2,53); 7,4857 (1,86); 7,4822 (3,20); 7,4645 (1,38); 7,1630 (1,30); 7,1526 (2,13); 7,1421 (1,21); 5,3565 (6,72); 3,3941 (2,10); 3,3443 (171,35); 3,2941 (1,27); 3,0619 (16,00); 2,7990 (4,33); 2,7824 (4,46); 2,6813 (0,43); 2,6768 (0,57); 2,6724 (0,42); 2,5619 (0,91); 2,5575 (1,22); 2,5531 (0,95); 2,5300 (2,04); 2,5164 (37,35); 2,5122 (74,24); 2,5077 (98,29); 2,5033 (70,37); 2,4991 (33,42); 2,4575 (0,92); 2,3391 (0,46); 2,3346 (0,62); 2,3301 (0,45); 1,9948 (0,65); 1,8223 (0,43); 1,8056 (0,89); 1,7889 (1,12); 1,7723 (0,88); 1,7557 (0,46); 1,2508 (1,44); 1,1793 (0,36); 0,9545 (15,44); 0,9379 (14,90); 0,8796 (0,72); 0,8630 (2,05); 0,8454 (0,82)
Ejemplo 242, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3887 (3,15); 7,8550 (0,86); 7,8342 (1,87); 7,8162 (2,05); 7,7966 (2,48); 7,7948 (2,52); 7,7760 (1,23); 7,7282 (2,99); 7,7104 (3,74); 7,7067 (2,70); 7,5669 (0,57); 7,5639 (0,42); 7,5549 (0,54); 7,5487 (1,82); 7,5431 (0,67); 7,5336 (1,15); 7,5305 (1,62); 7,5272 (0,92); 7,5000 (2,72); 7,4843 (2,16); 7,4809 (3,42); 7,4670 (0,76); 7,4632 (1,41); 7,4601 (0,87); 7,1345 (1,79); 7,1168 (1,76); 5,4326 (0,42); 5,4274 (0,42); 5,4159 (1,21); 5,4107 (1,23); 5,3992 (1,28); 5,3939 (1,27); 5,3824 (0,50); 5,3771 (0,46); 5,3418 (6,76); 3,5850 (3,39); 3,5798 (3,32); 3,3971 (1,47); 3,3474 (119,76); 3,2970 (1,75); 3,0759 (16,00); 2,5573 (0,96); 2,5531 (0,92); 2,5160 (20,07); 2,5121 (37,07); 2,5077 (47,62); 2,5033 (34,71); 2,4669 (1,05); 2,4619 (1,10); 2,4575 (1,10); 1,4870 (7,01); 1,4702 (7,01)
Ejemplo 243, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,0967 (2,79); 8,1639 (0,70); 8,1437 (0,81); 7,9529 (1,48); 7,9305 (1,31); 7,9110 (2,06); 7,8911 (1,16); 7,7277 (3,18); 7,7097 (3,91); 7,7062 (3,10); 7,6940 (1,91); 7,6920 (1,87); 7,6743 (2,06); 7,6722 (1,98); 7,5647 (0,57); 7,5464 (1,96); 7,5386 (1,44); 7,5335 (1,77); 7,5319 (1,78); 7,5283 (1,98); 7,5250 (1,41); 7,5197 (2,13); 7,5155 (2,11); 7,4974 (2,92); 7,4786 (4,49); 7,4634 (2,81); 7,4607 (3,30); 7,4449 (1,16); 7,4423 (1,04); 7,4186 (1,26); 7,4140 (1,24); 7,3991 (1,53); 7,3950 (1,49); 7,3804 (0,71); 7,3760 (0,64); 7,2413 (2,07); 7,2226 (1,98); 5,3754 (5,29); 3,3476 (114,40); 3,0811 (16,00); 2,8913 (9,58); 2,7324 (8,25); 2,5081 (34,57); 2,5037 (43,87); 2,4993 (33,49); 0,0004 (1,58)
Ejemplo 244, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5103 (2,00); 8,0958 (1,42); 8,0752 (1,70); 7,8354 (1,27); 7,8162 (1,79); 7,7959 (1,18); 7,7275 (2,12); 7,7251 (2,63); 7,7214 (1,29); 7,7124 (0,85); 7,7073 (3,45); 7,7036 (2,42); 7,5647 (0,50); 7,5615 (0,32); 7,5527 (0,38); 7,5464 (1,68); 7,5407 (0,51); 7,5314 (0,91); 7,5281 (1,45); 7,5247 (0,74); 7,4967 (2,44); 7,4933 (1,08); 7,4812 (1,74); 7,4775 (3,16); 7,4639 (0,50); 7,4598 (1,26); 7,4566 (0,71); 7,1478 (1,80); 7,1293 (1,75); 5,3607 (6,17); 3,3304 (51,56); 3,0569 (16,00); 2,8913 (2,07); 2,7326 (1,71); 2,7316 (1,59); 2,6846 (0,33); 2,6713 (0,58); 2,6677 (0,64); 2,6491 (0,56); 2,6326 (0,37); 2,5256 (0,59); 2,5124 (10,74); 2,5079 (21,06); 2,5033 (27,53); 2,4987 (19,99); 2,4942 (9,54); 1,6099 (0,33); 1,5995 (0,35); 1,5872 (0,44); 1,5781 (0,42); 1,5653 (0,36); 1,3496 (0,35); 1,3367 (0,45); 1,3236 (0,56); 1,3051 (0,59); 1,2898 (0,92); 1,2785 (0,91); 1,2718 (1,20); 1,2549 (1,30); 1,2459 (1,04); 1,2354 (1,03); 1,2217 (0,82); 1,2152 (0,61); 1,2044 (0,54); 1,1962 (0,43); 1,1881 (0,47); 1,1733 (0,35); 1,0670 (5,83); 1,0500 (5,71); 0,8578 (2,10); 0,8528 (1,20); 0,8406 (4,59); 0,8225 (2,41); -0,0002 (8,32)
Ejemplo 245, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,9988 (2,86); 8,1622 (1,92); 8,1415 (2,35); 8,0503 (4,12); 8,0457 (1,56); 8,0332 (1,65); 8,0288 (4,52); 7,9336 (1,40); 7,9142 (2,11); 7,8942 (1,28); 7,7393 (2,94); 7,7213 (3,60); 7,7176 (2,71); 7,5949 (4,60); 7,5904 (1,65); 7,5734 (4,59); 7,5601 (0,66); 7,5536 (1,93); 7,5480 (0,76); 7,5353 (1,64); 7,5054 (2,70); 7,4861 (3,43); 7,4684 (1,34); 7,2443 (2,11); 7,2257 (2,05); 5,7612 (6,52); 5,4213 (7,01); 4,0422 (0,33); 4,0246 (0,35); 3,3685 (1,08); 3,3365 (221,52); 3,2583 (0,71); 3,0816 (16,00); 2,6758 (0,34); 2,5112 (43,36); 2,5068 (57,28); 2,5025 (42,19); 2,3337 (0,39); 1,9934 (1,44); 1,2382 (0,42); 1,1967 (0,40); 1,1790 (0,76); 1,1612 (0,40)
Ejemplo 246, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8610 (1,10); 7,8194 (0,75); 7,8141 (0,34); 7,8059 (0,88); 7,7970 (0,84); 7,7887 (0,44); 7,7831 (1,42); 7,7696 (1,10); 7,7668 (1,53); 7,3587 (0,78); 7,3366 (1,43); 7,3144 (0,71); 7,0800 (0,51); 7,0749 (0,51); 7,0645 (0,49); 7,0594 (0,49); 5,3185 (2,53); 3,5596 (0,87); 3,4011 (0,37); 3,3516 (32,11); 3,0680 (5,99); 2,5186 (2,03); 2,5142 (4,23); 2,5098 (5,74); 2,5053 (4,09); 2,5009 (1,88); 1,9957 (0,47); 1,5107 (1,98); 1,4682 (16,00); 1,3330 (0,37)
Ejemplo 247, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5085 (0,85); 8,0766 (0,49); 8,0559 (0,58); 7,8330 (0,50); 7,8136 (0,70); 7,7935 (0,46); 7,7240 (1,04); 7,7111 (0,35); 7,7061 (1,35); 7,7024 (0,95); 7,5458 (0,66); 7,5308 (0,35); 7,5275 (0,56); 7,4964 (0,97); 7,4809 (0,68); 7,4772 (1,23); 7,4595 (0,48); 7,1416 (0,72); 7,1235 (0,69); 5,3540 (2,48); 3,3285 (24,24); 3,0542 (6,16); 2,8910 (1,65); 2,7320 (1,33); 2,5118 (4,89); 2,5074 (9,68); 2,5028 (12,76); 2,4982 (9,38); 2,4938 (4,60); 2,3677 (0,59); 2,3494 (1,23); 2,3308 (0,71); 1,5627 (0,37); 1,5435 (0,40); 1,5403 (0,41); 1,5309 (0,33); 1,5206 (0,40); 1,1837 (0,76); 1,1733 (0,44); 1,1633 (0,44); 1,1604 (0,45); 1,1525 (0,41); 1,1410 (0,61); 0,8623 (16,00); -0,0002 (3,48)
Ejemplo 248, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5134 (2,17); 8,0921 (1,60); 8,0715 (1,88); 7,8348 (1,33); 7,8153 (1,96); 7,7952 (1,26); 7,7243 (2,91); 7,7114 (0,95); 7,7064 (3,73); 7,7028 (2,63); 7,5650 (0,51); 7,5619 (0,36); 7,5529 (0,40); 7,5466 (1,72); 7,5410 (0,57); 7,5316 (0,94); 7,5284 (1,48); 7,5252 (0,83); 7,4972 (2,69); 7,4815 (1,85); 7,4779 (3,35); 7,4642 (0,53); 7,4603 (1,27); 7,4573 (0,78); 7,1461 (2,00); 7,1276 (1,90); 5,3601 (6,80); 3,3344 (89,79); 3,0882 (0,49); 3,0572 (16,00); 2,8911 (1,68); 2,7316 (1,43); 2,7087 (0,35); 2,6892 (0,60); 2,6725 (0,79); 2,6579 (0,40); 2,5121 (13,08); 2,5078 (25,41); 2,5033 (33,14); 2,4987 (24,36); 2,4944 (11,93); 1,5898 (0,51); 1,5852 (0,43); 1,5755 (0,53); 1,5692 (0,61); 1,5639 (0,43); 1,5543 (0,60); 1,3273

(0,48); 1,3148 (0,63); 1,3019 (0,92); 1,2826 (1,32); 1,2684 (1,74); 1,2577 (0,88); 1,2491 (1,38); 1,2339 (1,28); 1,2207 (0,45); 1,2161 (0,50); 1,2088 (0,34); 1,0653 (6,44); 1,0483 (6,34); 0,8939 (0,36); 0,8785 (3,29); 0,8607 (6,20); 0,8428 (2,44); -0,0002 (5,41)
Ejemplo 249, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8213 (1,22); 7,7724 (0,82); 7,7568 (1,83); 7,6494 (0,32); 7,3888 (0,69); 7,3835 (0,80); 7,3760 (1,13); 7,3667 (0,78); 7,0218 (0,59); 7,0175 (0,58); 7,0059 (0,55); 7,0015 (0,55); 5,7640 (2,62); 5,3195 (2,87); 3,3401 (6,83); 3,3237 (6,22); 2,5124 (0,98); 2,5081 (1,27); 2,5039 (0,93); 1,4639 (16,00)
Ejemplo 250, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,0917 (2,65); 7,8295 (0,49); 7,8085 (1,97); 7,7927 (4,08); 7,7746 (0,63); 7,5387 (2,38); 7,5231 (0,70); 7,5145 (1,00); 7,5110 (1,06); 7,5015 (1,00); 7,4972 (0,75); 7,3893 (0,36); 7,3701 (2,46); 7,3640 (1,77); 7,3580 (3,41); 7,3557 (3,30); 7,0915 (1,40); 7,0866 (1,35); 7,0759 (1,29); 7,0710 (1,30); 5,7642 (4,65); 5,3254 (6,89); 4,6816 (0,44); 4,6690 (0,53); 4,6590 (0,83); 4,6495 (0,61); 4,6366 (0,41); 3,3277 (10,72); 3,3053 (0,96); 3,0626 (16,00); 2,5185 (9,24); 2,5142 (18,30); 2,5098 (24,34); 2,5054 (17,56); 2,5012 (8,48); 2,3398 (11,18); 1,8755 (0,86); 1,8628 (0,98); 1,8494 (1,02); 1,7352 (0,85); 1,7269 (0,92); 1,7121 (1,00); 1,5277 (0,44); 1,5175 (0,47); 1,4974 (0,52); 1,4711 (0,43); 1,4632 (0,40); 1,4391 (1,00); 1,4143 (1,27); 1,3887 (1,27); 1,3616 (1,14); 1,3359 (0,90); 1,3296 (0,97); 1,3116 (0,40); 1,3038 (0,53); 1,2830 (0,47); 1,2533 (0,80); 0,8655 (0,36)
Ejemplo 251, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,7560 (0,76); 8,1825 (1,92); 8,1772 (0,82); 8,1689 (2,16); 8,1656 (1,14); 8,1602 (2,17); 8,1521 (0,87); 8,1466 (1,97); 7,9535 (1,88); 7,7488 (2,02); 7,7462 (2,70); 7,7422 (1,34); 7,7338 (0,84); 7,7286 (3,47); 7,7247 (2,44); 7,5689 (0,47); 7,5576 (0,34); 7,5505 (1,66); 7,5446 (0,52); 7,5359 (0,94); 7,5325 (1,53); 7,5290 (0,79); 7,5082 (2,52); 7,5048 (1,13); 7,4932 (1,63); 7,4892 (3,11); 7,4759 (0,52); 7,4717 (1,23); 7,4681 (0,73); 7,4076 (1,98); 7,4024 (0,69); 7,3849 (5,55); 7,3684 (0,71); 7,3632 (1,90); 5,3844 (5,92); 3,3476 (122,79); 3,0193 (16,00); 2,8918 (14,81); 2,7330 (11,98); 2,5269 (0,67); 2,5136 (12,10); 2,5091 (23,58); 2,5045 (30,73); 2,4999 (22,31); 2,4954 (10,72); -0,0002 (1,49)
Ejemplo 252, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,4342 (2,00); 7,6225 (3,81); 7,6020 (4,37); 7,3495 (0,58); 7,3451 (0,47); 7,3298 (4,03); 7,3240 (4,71); 7,3162 (14,21); 7,3074 (5,07); 7,2870 (3,71); 7,2772 (1,63); 7,2672 (6,35); 7,2557 (1,44); 7,2512 (1,07); 7,2419 (0,83); 7,2344 (0,41); 5,3051 (7,02); 3,7517 (8,42); 3,5607 (1,00); 3,4211 (3,15); 3,3715 (269,39); 3,3219 (2,90); 3,0017 (16,00); 2,5572 (0,56); 2,5120 (34,30); 2,5077 (43,77); 2,5036 (32,56); 2,4582 (0,55); 2,3524 (11,36); 1,9931 (0,71); 1,2476 (0,82); 1,1775 (0,37); 0,8772 (0,35); 0,8606 (0,95); 0,8429 (0,40)
Ejemplo 253, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7389 (2,92); 7,7211 (3,54); 7,7173 (2,65); 7,5620 (0,56); 7,5588 (0,43); 7,5503 (0,49); 7,5436 (1,77); 7,5379 (0,68); 7,5288 (1,08); 7,5255 (1,60); 7,4986 (2,75); 7,4832 (1,93); 7,4795 (3,36); 7,4659 (0,69); 7,4619 (1,34); 7,4586 (0,89); 7,3839 (1,23); 7,3657 (1,59); 7,3632 (1,60); 7,3451 (1,37); 6,5154 (0,75); 6,5021 (1,44); 6,4870 (2,65); 6,4691 (2,05); 6,3994 (2,02); 6,3787 (1,97); 5,7616 (1,11); 5,1994 (6,87); 3,3396 (118,89); 3,2708 (0,67); 3,2506 (0,44); 3,2314 (1,07); 3,2146 (1,87); 3,1992 (1,83); 3,1821 (1,04); 3,0738 (16,00); 3,0481 (0,42); 2,5158 (11,06); 2,5116 (21,74); 2,5072 (29,16); 2,5028 (21,84); 1,7043 (1,28); 1,6690 (1,94); 1,6248 (1,72); 1,5917 (0,78); 1,4442 (0,43); 1,4240 (0,81); 1,4072 (1,97); 1,3886 (2,16); 1,3716 (1,33); 1,3634 (0,65); 1,3410 (0,49); 1,3329 (0,58); 1,3253 (0,56); 1,3162 (0,61); 1,3073 (0,56); 1,2990 (0,49); 1,2898 (0,44); 1,2803 (0,33); 1,2390 (0,50); 1,2303 (0,43); 1,1985 (0,95); 1,1688 (1,44); 1,1466 (1,69); 1,1261 (0,88); 1,0957 (0,50); 0,9179 (0,61); 0,8891 (1,28); 0,8609 (1,22); 0,8373 (0,49)
Ejemplo 254, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8576 (1,05); 7,7899 (0,86); 7,7808 (0,98); 7,7751 (2,20); 7,5367 (0,39); 7,5328 (0,43); 7,0999 (0,53); 7,0938 (0,54); 7,0854 (0,48); 7,0792 (0,54); 5,7642 (3,14); 5,3711 (2,61); 3,3398 (7,33); 3,1915 (6,87); 2,5176 (0,35); 2,5131 (0,76); 2,5086 (1,07); 2,5041 (0,79); 2,4996 (0,40); 1,4703 (16,00)
Ejemplo 255, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8720 (1,81); 8,0114 (0,77); 7,9907 (0,97); 7,9537 (0,52); 7,8515 (1,29); 7,8323 (1,71); 7,8119 (1,13); 7,7329 (1,93); 7,7301 (2,57); 7,7262 (1,29); 7,7176 (0,83); 7,7124 (3,41); 7,7087 (2,43); 7,5678 (0,49); 7,5646 (0,32); 7,5559 (0,36); 7,5495 (1,61); 7,5437 (0,51); 7,5346 (0,86); 7,5312 (1,42); 7,5278 (0,74); 7,5005 (2,37); 7,4971 (1,10); 7,4852 (1,60); 7,4814 (3,01); 7,4679 (0,47); 7,4638 (1,21); 7,4605 (0,69); 7,2920 (0,46); 7,2840 (0,55); 7,2776 (0,56); 7,2695 (0,98); 7,2615 (0,63); 7,2559 (0,88); 7,2455 (0,79); 7,2339 (1,15); 7,2222 (1,13); 7,2112 (0,77); 7,1995 (0,76); 7,1839 (0,60); 7,1761 (2,23); 7,1640 (0,82); 7,1590 (1,89); 7,1574 (1,95); 7,1457 (0,48); 5,3814 (5,89); 4,1094 (0,35); 4,0916 (0,35); 3,8350 (3,84); 3,7363 (0,35); 3,7328 (0,35); 3,3305 (59,82); 3,2301 (0,36); 3,0667 (16,00); 3,0574 (0,36); 2,8909 (4,28); 2,7325 (3,42); 2,7312 (3,33); 2,5256 (0,69); 2,5208 (1,11); 2,5123 (11,54); 2,5078 (22,78); 2,5031 (29,97); 2,4985 (21,65); 2,4940 (10,19); 1,2029 (0,40); 1,1851 (0,83); 1,1673 (0,39); 0,8761 (0,50); -0,0002 (7,11)
Ejemplo 256, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5588 (1,92); 8,0692 (1,21); 8,0485 (1,45); 7,8364 (1,30); 7,8171 (1,80); 7,7969 (1,20); 7,7262 (2,15); 7,7241 (2,67); 7,7112 (0,85); 7,7062 (3,58); 7,7024 (2,41); 7,5647 (0,49); 7,5528 (0,37); 7,5464 (1,67); 7,5406 (0,51); 7,5314 (0,91); 7,5281 (1,42); 7,5248 (0,73); 7,4973 (2,50); 7,4819 (1,74); 7,4782 (3,15); 7,4646 (0,50); 7,4605 (1,24); 7,4573 (0,68); 7,1464 (1,79); 7,1280 (1,75); 5,8644 (0,63); 5,8549 (0,33); 5,8485 (0,32); 5,8386 (0,87); 5,8217 (0,87); 5,8119 (0,36); 5,8055 (0,37); 5,7959 (0,74); 5,7799 (0,35); 5,3561 (6,42); 5,0796 (0,48); 5,0755 (1,20); 5,0709 (1,22); 5,0668 (0,48); 5,0366 (0,43); 5,0325 (1,08); 5,0279 (1,09); 5,0238 (0,43); 4,9832 (0,55); 4,9801 (1,14); 4,9779 (0,90); 4,9753 (1,00); 4,9723 (0,46); 4,9576 (0,52); 4,9545 (1,08); 4,9523 (0,85); 4,9498 (0,95); 4,9467 (0,42); 3,3290 (56,17); 3,2234 (0,36); 3,0878 (0,60); 3,0535 (16,00); 2,8908 (0,51); 2,7320 (0,42); 2,5252 (0,64); 2,5118 (12,37); 2,5073 (22,99); 2,5027 (29,47); 2,4981 (21,39); 2,4934 (12,11); 2,4732 (2,16); 2,3493 (0,70); 2,3335 (1,76); 2,3301 (1,78); 2,3172 (1,20); 2,3140 (1,54); 2,2975 (0,45); 0,8758 (0,48); -0,0002 (4,83)
Ejemplo 257, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,7279 (1,12); 8,0919 (2,68); 8,0786 (0,91); 8,0740 (3,13); 8,0705 (2,35); 7,9533 (1,19); 7,7499 (2,15); 7,7474 (2,71); 7,7434 (1,32); 7,7349 (0,91); 7,7297 (3,52); 7,7259 (2,47); 7,6618 (0,34); 7,6589 (0,57); 7,6559 (0,35); 7,6454 (0,48); 7,6406 (1,62); 7,6357 (0,53); 7,6250 (0,78);

7,6220 (1,22); 7,6189 (0,67); 7,5652 (2,44); 7,5580 (0,66); 7,5499 (2,75); 7,5453 (3,65); 7,5360 (1,22); 7,5324 (1,96); 7,5275 (1,71); 7,5086 (2,58); 7,5053 (1,14); 7,4937 (1,71); 7,4896 (3,16); 7,4763 (0,54); 7,4721 (1,26); 7,4685 (0,76); 7,3803 (4,21); 5,3865 (6,20); 3,3487 (150,38); 3,3096 (0,39); 3,0226 (16,00); 2,8916 (9,19); 2,7329 (7,61); 2,5267 (0,71); 2,5133 (12,92); 2,5089 (24,83); 2,5043 (31,99); 2,4997 (23,15); 2,4953 (11,06); -0,0002 (0,54)
Ejemplo 258, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9129 (1,78); 7,8851 (2,27); 7,7253 (1,47); 7,6987 (2,54); 7,6693 (3,25); 7,6447 (3,33); 7,6240 (2,67); 7,3467 (4,08); 7,3191 (3,66); 7,2968 (4,19); 7,2573 (12,26); 7,2301 (3,45); 7,1347 (2,37); 7,1087 (4,54); 7,0814 (2,29); 7,0233 (2,66); 6,9986 (2,51); 5,2777 (10,06); 4,4296 (2,48); 4,4069 (5,17); 4,3840 (2,68); 3,0953 (16,00); 3,0239 (2,57); 3,0012 (4,99); 2,9786 (2,43); 2,0084 (2,01); 1,6038 (6,29); 1,2541 (0,52); -0,0002 (3,01)
Ejemplo 259, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,8120 (1,89); 7,8066 (0,85); 7,7985 (2,10); 7,7932 (1,15); 7,7895 (2,11); 7,7815 (0,87); 7,7761 (1,92); 7,3987 (1,28); 7,3804 (1,66); 7,3783 (1,62); 7,3599 (1,42); 7,3477 (2,07); 7,3424 (0,74); 7,3255 (3,68); 7,3207 (0,88); 7,3086 (0,65); 7,3033 (1,83); 6,5061 (1,83); 6,4886 (1,76); 6,3893 (1,87); 6,3693 (1,81); 6,0030 (2,81); 5,7558 (11,12); 5,1716 (6,65); 4,9644 (0,41); 3,4636 (2,31); 3,3258 (9,38); 3,3020 (0,35); 3,1338 (0,43); 3,0837 (16,00); 3,0284 (0,43); 2,5097 (1,31); 2,5053 (2,76); 2,5007 (3,79); 2,4963 (2,70); 2,4919 (1,26); 1,5326 (2,59)
Ejemplo 260, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8357 (2,17); 8,0093 (1,23); 7,9887 (1,63); 7,9531 (0,80); 7,8678 (1,35); 7,8486 (1,80); 7,8283 (1,14); 7,7300 (1,97); 7,7275 (2,60); 7,7237 (1,26); 7,7149 (0,79); 7,7098 (3,45); 7,7060 (2,40); 7,5698 (0,49); 7,5579 (0,36); 7,5515 (1,65); 7,5459 (0,49); 7,5365 (0,87); 7,5332 (1,42); 7,5299 (0,73); 7,5015 (2,40); 7,4980 (1,01); 7,4860 (1,69); 7,4823 (3,10); 7,4687 (0,50); 7,4646 (1,24); 7,4614 (0,70); 7,3514 (0,36); 7,3425 (4,16); 7,3369 (1,23); 7,3255 (1,31); 7,3199 (4,66); 7,3109 (0,40); 7,2029 (1,76); 7,1852 (1,71); 6,9558 (0,42); 6,9469 (4,37); 6,9413 (1,26); 6,9299 (1,19); 6,9243 (3,92); 6,9154 (0,32); 5,3843 (5,98); 5,0701 (1,07); 5,0536 (1,08); 3,3514 (102,16); 3,3486 (139,13); 3,0611 (16,00); 2,8914 (6,58); 2,7327 (5,16); 2,7319 (5,05); 2,5266 (0,64); 2,5133 (13,11); 2,5088 (25,99); 2,5042 (34,16); 2,4996 (24,71); 2,4951 (11,70); 1,5354 (5,41); 1,5190 (5,40); -0,0002 (0,56)
Ejemplo 261, Disolvente: DMSO, Espectrómetro: 400,13 MHz
8,0043 (0,53); 7,9848 (0,33); 7,6324 (0,57); 7,4997 (0,41); 7,4808 (0,48); 7,4447 (0,51); 7,4255 (0,41); 5,8276 (1,62); 5,5018 (1,32); 3,4021 (1,07); 3,1184 (3,35); 2,5758 (4,24); 2,5714 (8,61); 2,5669 (11,56); 2,5624 (8,20); 2,5580 (3,77); 1,5267 (0,57); 1,4096 (16,00)
Ejemplo 262, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,8129 (1,57); 7,9526 (1,61); 7,7914 (2,80); 7,7865 (2,81); 7,7412 (2,05); 7,7386 (2,70); 7,7346 (1,31); 7,7262 (0,93); 7,7210 (3,51); 7,7171 (2,39); 7,6968 (2,46); 7,6761 (3,42); 7,5797 (2,16); 7,5747 (2,02); 7,5684 (0,38); 7,5651 (0,59); 7,5590 (1,64); 7,5539 (1,85); 7,5468 (1,72); 7,5410 (0,51); 7,5321 (0,98); 7,5288 (1,53); 7,5253 (0,77); 7,5030 (2,53); 7,4996 (1,07); 7,4879 (1,74); 7,4840 (3,13); 7,4705 (0,54); 7,4664 (1,28); 7,4629 (0,75); 7,4112 (4,10); 5,3639 (5,70); 3,3327 (57,92); 3,3298 (86,16); 3,0374 (16,00); 3,0161 (0,56); 2,8905 (13,13); 2,7315 (10,22); 2,7308 (10,22); 2,5246 (0,96); 2,5198 (1,45); 2,5113 (18,55); 2,5068 (36,83); 2,5022 (48,25); 2,4976 (34,97); 2,4930 (16,60); 0,0079 (0,40); -0,0002 (12,51); -0,0085 (0,40)
Ejemplo 263, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,8993 (0,93); 7,8246 (1,47); 7,8192 (1,89); 7,8040 (1,90); 7,7986 (1,52); 7,7462 (2,83); 7,7423 (1,48); 7,7336 (0,90); 7,7285 (3,53); 7,7247 (2,56); 7,6126 (0,33); 7,6068 (0,54); 7,5898 (0,68); 7,5841 (1,07); 7,5785 (0,62); 7,5691 (0,71); 7,5613 (0,67); 7,5582 (0,61); 7,5510 (1,79); 7,5452 (0,57); 7,5363 (0,99); 7,5330 (1,58); 7,5295 (0,87); 7,5083 (2,63); 7,4932 (1,69); 7,4893 (3,22); 7,4759 (0,55); 7,4718 (1,26); 7,4683 (0,75); 7,4245 (3,48); 5,3912 (6,09); 3,3462 (66,87); 3,3416 (98,96); 3,0178 (16,00); 2,8915 (0,44); 2,7322 (0,36); 2,5263 (0,57); 2,5129 (12,95); 2,5085 (25,78); 2,5040 (34,03); 2,4994 (25,26); 2,4950 (12,64); -0,0002 (8,68); -0,0085 (0,33)
Ejemplo 264, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8225 (1,89); 8,0438 (1,01); 8,0231 (1,23); 7,9530 (0,55); 7,8547 (1,32); 7,8354 (1,82); 7,8152 (1,18); 7,7230 (2,64); 7,7192 (1,31); 7,7103 (0,83); 7,7052 (3,52); 7,7015 (2,39); 7,5641 (0,49); 7,5609 (0,32); 7,5522 (0,37); 7,5458 (1,67); 7,5401 (0,50); 7,5308 (0,88); 7,5275 (1,43); 7,5242 (0,73); 7,4962 (2,50); 7,4929 (1,11); 7,4808 (1,67); 7,4770 (3,13); 7,4634 (0,49); 7,4594 (1,24); 7,4562 (0,69); 7,3918 (1,71); 7,3881 (1,77); 7,3794 (1,79); 7,3757 (1,82); 7,1740 (1,80); 7,1560 (1,78); 6,9915 (0,93); 6,9864 (2,04); 6,9830 (1,86); 6,9796 (3,14); 6,9708 (1,01); 6,9671 (2,25); 6,9585 (1,10); 5,3715 (6,28); 3,9564 (5,70); 3,3300 (63,32); 3,2185 (0,68); 3,0543 (16,00); 2,8902 (4,49); 2,7317 (3,51); 2,7309 (3,56); 2,5249 (0,63); 2,5201 (0,99); 2,5116 (11,97); 2,5071 (23,85); 2,5025 (31,51); 2,4979 (22,91); 2,4934 (10,95); 0,8757 (0,44); -0,0002 (7,55)
Ejemplo 265, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,7658 (1,42); 7,9531 (0,62); 7,7302 (2,85); 7,7263 (1,44); 7,7174 (1,11); 7,7126 (3,67); 7,7088 (2,49); 7,5624 (0,53); 7,5592 (0,37); 7,5508 (0,42); 7,5440 (1,76); 7,5382 (0,58); 7,5292 (1,07); 7,5259 (1,61); 7,5225 (0,86); 7,5000 (2,80); 7,4848 (1,93); 7,4810 (3,48); 7,4676 (0,62); 7,4634 (1,37); 7,4599 (0,85); 7,2523 (4,15); 5,3572 (0,43); 5,2833 (6,24); 4,1472 (0,63); 4,1312 (0,39); 4,1221 (2,32); 4,1053 (4,91); 4,0886 (2,37); 3,3301 (65,71); 3,0486 (0,70); 3,0299 (16,00); 2,9910 (0,99); 2,8907 (4,72); 2,7321 (3,83); 2,7311 (3,80); 2,5250 (0,70); 2,5117 (13,28); 2,5072 (26,01); 2,5026 (34,09); 2,4981 (24,95); 2,4936 (12,17); 1,6644 (1,22); 1,6472 (2,50); 1,6289 (2,58); 1,6117 (1,30); 1,5937 (0,32); 1,2349 (0,38); 1,1211 (0,61); 1,1058 (0,60); 0,9307 (4,55); 0,9123 (8,73); 0,8937 (3,88); 0,8028 (0,50); 0,7844 (1,04); 0,7658 (0,45); 0,0080 (0,38); -0,0002 (9,93); -0,0085 (0,33)
Ejemplo 266, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5110 (1,78); 8,0783 (1,26); 8,0577 (1,49); 7,8342 (1,26); 7,8150 (1,72); 7,7947 (1,16); 7,7263 (1,91); 7,7238 (2,51); 7,7199 (1,21); 7,7112 (0,74); 7,7060 (3,33); 7,7023 (2,30); 7,5647 (0,47); 7,5528 (0,35); 7,5463 (1,60); 7,5406 (0,47); 7,5314 (0,85); 7,5281 (1,39); 7,5246 (0,70); 7,4973 (2,34); 7,4938 (1,00); 7,4819 (1,59); 7,4781 (3,01); 7,4646 (0,46); 7,4605 (1,20); 7,4573 (0,66); 7,1409 (1,74); 7,1235 (1,68); 5,3553 (6,25); 3,3290 (47,50); 3,0544 (16,00); 2,8908 (0,96); 2,7321 (0,75); 2,7311 (0,74); 2,5252 (0,56); 2,5204 (0,88); 2,5119 (10,17); 2,5074 (20,26);

2,5028 (26,71); 2,4982 (19,34); 2,4937 (9,17); 2,3781 (1,98); 2,3599 (3,85); 2,3416 (2,19); 1,6185 (1,28); 1,6001 (2,48); 1,5817 (2,46); 1,5634 (1,29); 0,9106 (4,18); 0,8922 (8,59); 0,8736 (3,79); -0,0002 (7,17)
Ejemplo 267, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5028 (2,08); 8,0700 (1,21); 8,0493 (1,45); 7,9534 (0,39); 7,8304 (1,26); 7,8112 (1,73); 7,7909 (1,16); 7,7314 (0,32); 7,7257 (1,96); 7,7232 (2,58); 7,7194 (1,25); 7,7106 (0,80); 7,7055 (3,40); 7,7017 (2,36); 7,5637 (0,48); 7,5518 (0,36); 7,5454 (1,62); 7,5397 (0,49); 7,5305 (0,87); 7,5272 (1,41); 7,5237 (0,72); 7,4958 (2,39); 7,4924 (1,03); 7,4804 (1,65); 7,4766 (3,07); 7,4631 (0,48); 7,4590 (1,22); 7,4558 (0,68); 7,1392 (1,76); 7,1215 (1,69); 5,3524 (6,09); 3,3277 (54,17); 3,0520 (16,00); 2,8908 (3,16); 2,7321 (2,47); 2,7311 (2,47); 2,5250 (0,71); 2,5117 (12,59); 2,5072 (24,78); 2,5026 (32,57); 2,4980 (23,61); 2,4935 (11,26); 2,3682 (1,40); 2,3498 (2,77); 2,3311 (1,64); 1,6865 (0,99); 1,6576 (1,98); 1,6362 (0,94); 1,6282 (1,15); 1,6127 (1,04); 1,5935 (1,32); 1,5746 (1,54); 1,5557 (0,98); 1,5369 (0,37); 1,2339 (0,58); 1,2191 (0,45); 1,2073 (0,81); 1,1991 (1,06); 1,1871 (1,49); 1,1753 (1,92); 1,1682 (2,47); 1,1488 (1,75); 1,1384 (1,38); 1,1225 (0,41); 1,1160 (0,56); 1,1098 (0,41); 1,0854 (0,37); 0,8776 (0,44); 0,8487 (0,88); 0,8221 (0,82); 0,0080 (0,35); -0,0002 (9,29)
Ejemplo 268, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5090 (1,95); 8,0719 (1,29); 8,0512 (1,54); 7,8323 (1,29); 7,8129 (1,81); 7,7928 (1,20); 7,7231 (2,74); 7,7194 (1,36); 7,7105 (0,83); 7,7054 (3,62); 7,7016 (2,45); 7,5642 (0,50); 7,5610 (0,32); 7,5523 (0,38); 7,5458 (1,70); 7,5403 (0,50); 7,5310 (0,89); 7,5276 (1,46); 7,5243 (0,75); 7,4964 (2,54); 7,4931 (1,07); 7,4809 (1,71); 7,4772 (3,21); 7,4636 (0,49); 7,4596 (1,26); 7,4564 (0,71); 7,1407 (1,86); 7,1225 (1,78); 5,4108 (0,42); 5,3970 (0,36); 5,3722 (1,59); 5,3543 (6,98); 5,3425 (1,86); 5,3275 (0,64); 5,3037 (0,40); 3,3309 (61,84); 3,0544 (15,69); 2,5257 (0,52); 2,5123 (9,90); 2,5078 (19,67); 2,5032 (25,99); 2,4986 (18,86); 2,4941 (8,99); 2,3961 (1,36); 2,3881 (0,66); 2,3779 (2,62); 2,3594 (1,42); 2,2293 (0,47); 2,2126 (0,72); 2,1962 (0,66); 2,1803 (0,40); 1,9840 (0,57); 1,9671 (1,27); 1,9514 (1,43); 1,9333 (0,76); 1,5991 (0,43); 1,5809 (1,05); 1,5620 (1,35); 1,5431 (1,03); 1,5245 (0,40); 1,3616 (0,47); 1,3423 (1,15); 1,3304 (0,77); 1,3239 (1,47); 1,3046 (0,97); 1,2858 (0,52); 0,9309 (16,00); 0,9140 (15,65); 0,8974 (2,18); 0,8808 (2,11); 0,8758 (0,68); 0,8623 (0,34); -0,0002 (4,98)
Ejemplo 269, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5931 (2,29); 8,0375 (0,71); 8,0168 (0,91); 7,8905 (1,34); 7,8712 (1,86); 7,8510 (1,15); 7,7298 (2,70); 7,7260 (1,34); 7,7170 (0,83); 7,7120 (3,50); 7,7082 (2,49); 7,6176 (1,63); 7,6137 (1,68); 7,5979 (1,77); 7,5940 (1,73); 7,5684 (0,50); 7,5564 (0,37); 7,5500 (1,70); 7,5444 (0,50); 7,5351 (0,92); 7,5318 (1,47); 7,5284 (0,75); 7,5010 (2,47); 7,4976 (1,08); 7,4855 (1,75); 7,4818 (3,20); 7,4681 (0,52); 7,4641 (1,27); 7,4609 (0,72); 7,3529 (0,73); 7,3489 (0,73); 7,3341 (1,08); 7,3319 (1,25); 7,3284 (1,04); 7,3137 (0,96); 7,3097 (0,90); 7,2140 (1,82); 7,1956 (1,75); 7,0479 (1,50); 7,0448 (1,61); 7,0271 (1,37); 7,0240 (1,34); 6,9440 (1,01); 6,9407 (0,92); 6,9248 (1,54); 6,9218 (1,48); 6,9058 (0,86); 6,9025 (0,78); 5,3871 (6,33); 4,9188 (5,58); 3,3532 (60,00); 3,3473 (97,95); 3,0723 (16,00); 2,8909 (0,53); 2,7323 (0,35); 2,5261 (0,64); 2,5128 (12,51); 2,5083 (24,48); 2,5038 (31,93); 2,4992 (23,20); 2,4947 (11,08); -0,0002 (2,55)
Ejemplo 270, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2536 (4,91); 7,8306 (1,24); 7,8097 (2,96); 7,7922 (3,54); 7,7818 (3,38); 7,7790 (3,75); 7,7611 (1,42); 7,7581 (1,12); 7,7247 (4,46); 7,7208 (2,20); 7,7120 (1,48); 7,7069 (5,89); 7,7032 (4,08); 7,5784 (0,45); 7,5752 (0,81); 7,5720 (0,55); 7,5635 (0,64); 7,5569 (2,82); 7,5511 (0,86); 7,5421 (1,61); 7,5387 (2,50); 7,5353 (1,30); 7,5105 (4,22); 7,4952 (2,79); 7,4914 (5,22); 7,4779 (0,82); 7,4738 (2,04); 7,4704 (1,14); 7,3147 (16,00); 7,3037 (15,02); 7,2946 (0,69); 7,2901 (0,42); 7,2849 (0,47); 7,2820 (0,53); 7,2560 (0,44); 7,2465 (1,26); 7,2360 (1,87); 7,2252 (1,99); 7,2149 (1,08); 7,2034 (0,48); 7,1002 (2,50); 7,0973 (2,55); 7,0828 (2,42); 7,0799 (2,35); 5,3435 (10,41); 4,3087 (2,93); 4,2915 (6,69); 4,2743 (3,04); 4,0612 (0,38); 4,0434 (1,16); 4,0256 (1,17); 4,0078 (0,39); 3,5201 (1,32); 3,5020 (4,61); 3,4839 (4,65); 3,4655 (1,48); 3,4124 (9,03); 3,4045 (0,68); 3,3977 (0,59); 3,3625 (697,57); 3,3126 (8,07); 3,3005 (0,40); 3,2629 (0,33); 2,9537 (2,84); 2,9365 (6,03); 2,9193 (2,75); 2,6835 (0,42); 2,6789 (0,57); 2,6744 (0,42); 2,5688 (0,33); 2,5643 (0,78); 2,5597 (1,16); 2,5552 (0,87); 2,5509 (0,49); 2,5323 (1,56); 2,5275 (2,67); 2,5189 (34,24); 2,5144 (71,95); 2,5099 (98,33); 2,5054 (69,91); 2,5009 (32,16); 2,4691 (0,51); 2,4645 (0,86); 2,4599 (1,17); 2,4555 (0,90); 2,4509 (0,51); 2,3413 (0,45); 2,3368 (0,62); 2,3321 (0,45); 1,9958 (5,24); 1,3701 (0,42); 1,2841 (0,40); 1,2510 (1,87); 1,1982 (1,46); 1,1804 (2,85); 1,1626 (1,39); 1,0513 (5,25); 1,0332 (12,20); 1,0150 (5,20); 0,8804 (0,89); 0,8637 (2,97); 0,8461 (1,12)
Ejemplo 271, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,1189 (1,60); 7,9530 (0,48); 7,7432 (0,33); 7,7374 (2,09); 7,7347 (2,76); 7,7306 (1,39); 7,7223 (0,86); 7,7171 (3,63); 7,7132 (2,53); 7,5640 (0,50); 7,5607 (0,35); 7,5526 (0,36); 7,5456 (1,68); 7,5398 (0,56); 7,5310 (0,95); 7,5276 (1,58); 7,5240 (0,88); 7,5021 (2,62); 7,4988 (1,18); 7,4871 (1,68); 7,4831 (3,19); 7,4698 (0,52); 7,4657 (1,27); 7,4621 (0,72); 7,2601 (3,80); 5,3202 (5,95); 5,1159 (0,52); 3,3307 (65,87); 3,0484 (1,43); 3,0298 (0,62); 3,0139 (16,00); 2,8907 (3,98); 2,7320 (3,13); 2,7310 (3,10); 2,5251 (0,64); 2,5202 (1,04); 2,5118 (12,70); 2,5073 (25,38); 2,5026 (33,45); 2,4980 (24,20); 2,4935 (11,50); 2,4042 (2,10); 2,3859 (4,07); 2,3764 (0,36); 2,3675 (2,31); 2,1760 (0,67); 2,1579 (0,36); 1,6315 (1,32); 1,6130 (2,55); 1,5946 (2,52); 1,5762 (1,32); 1,5169 (0,35); 1,4985 (0,35); 1,2350 (0,41); 1,1237 (0,50); 1,1084 (0,49); 0,9055 (4,24); 0,8940 (0,95); 0,8870 (8,75); 0,8758 (1,29); 0,8685 (3,89); 0,8573 (0,53); 0,0080 (0,38); -0,0002 (11,42); -0,0085 (0,35)
Ejemplo 272, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2748 (3,08); 7,8288 (0,62); 7,8077 (1,84); 7,7907 (2,76); 7,7879 (2,33); 7,7839 (2,42); 7,7666 (0,68); 7,7630 (0,42); 7,5396 (2,16); 7,5241 (0,64); 7,5201 (0,56); 7,5152 (0,95); 7,5119 (1,00); 7,5065 (0,59); 7,5024 (0,90); 7,4979 (0,69); 7,3698 (2,38); 7,3642 (1,56); 7,3581 (3,33); 7,3557 (3,19); 7,3182 (9,42); 7,3072 (10,44); 7,2977 (0,47); 7,2484 (0,79); 7,2382 (1,13); 7,2271 (1,24); 7,2169 (0,59); 7,2151 (0,59); 7,1003 (1,43); 7,0967 (1,44); 7,0835 (1,36); 7,0798 (1,36); 5,7683 (4,36); 5,3294 (6,25); 4,3091 (1,77); 4,2919 (3,97); 4,2746 (1,82); 3,4037 (0,97); 3,3535 (85,62); 3,3034 (0,84); 3,0561 (16,00); 2,9567 (1,70); 2,9394 (3,60); 2,9223 (1,63); 2,5598 (0,36); 2,5321 (0,51); 2,5273 (0,83); 2,5186 (10,78); 2,5142 (22,44); 2,5097 (30,45); 2,5052 (21,69); 2,5008 (10,00); 2,3376 (10,61); 1,9962 (0,32); 0,8633 (0,38)
Ejemplo 273, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,0964 (3,37); 7,8268 (0,34); 7,8057 (2,55); 7,7996 (2,71); 7,7923 (5,67); 7,7786 (0,49); 7,7281 (2,96); 7,7102 (3,59); 7,7066 (2,67); 7,5665 (0,51); 7,5545 (0,42); 7,5481 (1,76); 7,5427 (0,58); 7,5330 (1,00); 7,5300 (1,53); 7,4993 (2,67); 7,4801 (3,37); 7,4663 (0,60); 7,4624 (1,28); 7,0999 (1,37); 7,0926 (1,37); 7,0866 (1,21); 7,0792 (1,31); 5,7660 (9,16); 5,3293 (7,08); 4,9239 (0,48); 4,9086 (0,67); 4,9026 (0,63); 4,8958

(0,64); 4,8896 (0,68); 4,8744 (0,48); 3,3938 (0,69); 3,3441 (47,37); 3,2945 (0,46); 3,0757 (16,00); 2,5620 (0,35); 2,5575 (0,45); 2,5530 (0,33); 2,5121 (25,17); 2,5077 (33,19); 2,5034 (24,22); 2,4584 (0,34); 1,6934 (0,55); 1,6756 (0,68); 1,6582 (0,64); 1,6419 (0,40); 1,5897 (0,56); 1,5748 (0,46); 1,5682 (0,60); 1,5549 (0,96); 1,5406 (0,64); 1,5340 (0,74); 1,5192 (0,57); 1,3542 (0,67); 1,3419 (0,75); 1,3341 (0,65); 1,3209 (1,04); 1,3076 (0,57); 1,2998 (0,59); 1,2872 (0,57); 1,2329 (7,05); 1,2174 (6,90); 0,8989 (10,42); 0,8828 (10,36); 0,8617 (0,94); 0,8441 (0,40)

Ejemplo 274, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7019 (2,04); 8,0143 (0,53); 7,9939 (0,68); 7,9532 (0,96); 7,8834 (1,41); 7,8645 (1,82); 7,8439 (1,19); 7,7312 (1,94); 7,7285 (2,56); 7,7247 (1,23); 7,7160 (0,76); 7,7108 (3,44); 7,7071 (2,38); 7,6072 (3,15); 7,6007 (3,32); 7,5674 (0,48); 7,5555 (0,35); 7,5491 (1,63); 7,5434 (0,48); 7,5342 (0,87); 7,5308 (1,41); 7,5274 (0,72); 7,4996 (2,34); 7,4962 (0,99); 7,4842 (1,60); 7,4805 (3,04); 7,4669 (0,47); 7,4628 (1,22); 7,4596 (0,67); 7,3777 (1,54); 7,3713 (1,43); 7,3555 (1,80); 7,3490 (1,73); 7,2103 (1,70); 7,1917 (1,63); 7,1000 (2,67); 7,0776 (2,29); 5,3832 (5,95); 4,9497 (4,55); 3,3282 (37,74); 3,0682 (16,00); 2,8906 (7,85); 2,7319 (6,15); 2,7310 (6,09); 2,5250 (0,63); 2,5202 (0,97); 2,5117 (12,73); 2,5071 (25,54); 2,5025 (33,71); 2,4979 (24,41); 2,4934 (11,58); -0,0002 (8,34)

Ejemplo 275, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7688 (2,18); 8,0309 (1,21); 8,0102 (1,60); 7,9528 (0,76); 7,8802 (1,31); 7,8607 (1,81); 7,8406 (1,14); 7,7282 (2,70); 7,7246 (1,38); 7,7156 (0,77); 7,7105 (3,43); 7,7068 (2,51); 7,6133 (1,57); 7,6094 (1,68); 7,5936 (1,72); 7,5896 (1,73); 7,5690 (0,50); 7,5659 (0,34); 7,5570 (0,36); 7,5507 (1,64); 7,5451 (0,50); 7,5357 (0,86); 7,5324 (1,44); 7,5291 (0,78); 7,5005 (2,47); 7,4851 (1,65); 7,4813 (3,15); 7,4677 (0,49); 7,4637 (1,25); 7,4606 (0,76); 7,3333 (0,70); 7,3293 (0,73); 7,3145 (1,01); 7,3125 (1,22); 7,3109 (1,23); 7,3088 (1,10); 7,2941 (0,92); 7,2901 (0,90); 7,2107 (1,86); 7,1920 (1,77); 6,9906 (1,36); 6,9877 (1,60); 6,9697 (1,29); 6,9668 (1,36); 6,9256 (0,92); 6,9223 (0,90); 6,9062 (1,47); 6,9035 (1,44); 6,8874 (0,84); 6,8841 (0,79); 5,3872 (6,09); 5,1467 (1,03); 5,1302 (1,04); 3,3399 (123,75); 3,0660 (16,00); 2,8908 (5,95); 2,7322 (4,63); 2,7311 (4,93); 2,5258 (0,64); 2,5210 (1,07); 2,5124 (13,90); 2,5079 (28,05); 2,5033 (37,22); 2,4987 (27,34); 2,4942 (13,33); 1,5824 (5,61); 1,5660 (5,59); -0,0002 (1,61)

Ejemplo 276, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,5560 (0,64); 7,9537 (0,82); 7,7374 (2,70); 7,7335 (1,28); 7,7249 (0,79); 7,7197 (3,48); 7,7159 (2,39); 7,5677 (0,48); 7,5562 (0,35); 7,5493 (1,71); 7,5435 (0,50); 7,5346 (0,94); 7,5312 (1,53); 7,5277 (0,77); 7,5050 (2,54); 7,5016 (1,06); 7,4899 (1,64); 7,4859 (3,15); 7,4725 (0,49); 7,4684 (1,25); 7,4649 (0,68); 7,3508 (0,43); 7,3414 (6,02); 7,3404 (5,91); 7,3249 (1,35); 7,3193 (4,72); 7,3104 (0,42); 6,9532 (0,42); 6,9443 (4,51); 6,9387 (1,29); 6,9273 (1,23); 6,9217 (4,04); 6,9127 (0,34); 5,3386 (5,77); 5,0657 (0,38); 5,0492 (1,46); 5,0326 (1,48); 5,0161 (0,39); 3,3457 (65,65); 3,0206 (16,00); 2,8912 (6,84); 2,7330 (5,35); 2,7321 (5,33); 2,5269 (0,41); 2,5221 (0,63); 2,5136 (7,99); 2,5091 (16,01); 2,5045 (21,12); 2,4999 (15,25); 2,4953 (7,19); 1,5480 (5,56); 1,5314 (5,56); -0,0002 (1,60)

Ejemplo 277, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,6096 (2,19); 8,0826 (1,14); 8,0618 (1,37); 7,9528 (0,54); 7,8409 (1,25); 7,8215 (1,73); 7,8013 (1,16); 7,7213 (2,00); 7,7189 (2,60); 7,7151 (1,25); 7,7062 (0,86); 7,7011 (3,43); 7,6974 (2,44); 7,5647 (0,49); 7,5527 (0,37); 7,5464 (1,64); 7,5407 (0,51); 7,5314 (0,87); 7,5281 (1,42); 7,5247 (0,72); 7,4962 (2,43); 7,4929 (1,04); 7,4808 (1,67); 7,4770 (3,10); 7,4634 (0,49); 7,4594 (1,23); 7,4562 (0,68); 7,1677 (3,79); 7,1664 (3,80); 7,1476 (2,84); 7,1283 (1,73); 6,9328 (1,44); 6,9284 (1,09); 6,9099 (1,23); 5,3488 (6,06); 4,0675 (0,65); 4,0497 (0,65); 4,0080 (1,45); 3,9927 (3,37); 3,9776 (2,00); 3,9627 (0,33); 3,3890 (0,38); 3,3452 (212,55); 3,3105 (0,40); 3,0430 (16,00); 2,8912 (4,40); 2,7324 (3,41); 2,7316 (3,45); 2,6095 (1,27); 2,5913 (2,79); 2,5733 (1,45); 2,5261 (0,99); 2,5213 (1,58); 2,5128 (17,45); 2,5083 (34,25); 2,5037 (44,75); 2,4991 (32,26); 2,4946 (15,19); 2,4704 (0,69); 2,4523 (0,36); 2,1263 (1,67); 2,1070 (10,62); 2,0661 (0,37); 2,0495 (1,13); 2,0329 (1,74); 2,0160 (1,10); 1,9995 (0,51); 1,9820 (0,35); 1,1884 (0,73); 1,1706 (1,50); 1,1528 (0,72); -0,0002 (3,49)

Ejemplo 278, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1336 (1,96); 8,0664 (1,00); 8,0457 (1,26); 7,9513 (0,33); 7,8853 (1,24); 7,8659 (1,71); 7,8459 (1,15); 7,7246 (2,19); 7,7221 (2,73); 7,7180 (1,51); 7,7142 (0,65); 7,7089 (1,35); 7,7043 (3,69); 7,7005 (2,37); 7,5649 (0,50); 7,5616 (0,33); 7,5528 (0,42); 7,5466 (1,70); 7,5408 (0,57); 7,5315 (1,18); 7,5282 (1,48); 7,5249 (0,82); 7,4962 (2,41); 7,4927 (1,05); 7,4808 (1,86); 7,4770 (3,30); 7,4635 (0,63); 7,4593 (1,50); 7,4559 (1,13); 7,4002 (0,58); 7,3855 (7,73); 7,3797 (3,53); 7,3714 (2,95); 7,3696 (3,46); 7,3640 (0,65); 7,3553 (0,54); 7,3520 (0,70); 7,3498 (0,81); 7,3310 (0,68); 7,3248 (0,93); 7,3179 (0,78); 7,3090 (0,84); 7,3001 (0,46); 7,2945 (0,34); 7,1994 (0,35); 7,1902 (1,72); 7,1726 (1,65); 7,1104 (0,40); 5,4143 (0,33); 5,3643 (6,06); 5,3563 (1,29); 5,2003 (0,33); 4,6039 (8,29); 4,1870 (7,38); 3,3359 (181,12); 3,3008 (0,45); 3,0859 (0,55); 3,0808 (1,06); 3,0716 (2,84); 3,0582 (16,00); 2,9841 (0,85); 2,8906 (2,19); 2,7318 (1,71); 2,7307 (1,65); 2,6762 (0,32); 2,6716 (0,45); 2,6670 (0,33); 2,5484 (0,34); 2,5343 (0,39); 2,5250 (1,32); 2,5201 (2,11); 2,5117 (26,87); 2,5071 (53,88); 2,5025 (71,21); 2,4979 (51,70); 2,4934 (24,61); 2,3822 (0,50); 2,3338 (0,35); 2,3292 (0,47); 2,3247 (0,34); 1,2349 (0,42); 0,0079 (0,69); -0,0002 (21,52); -0,0085 (0,66)

Ejemplo 280, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,5230 (2,44); 8,0938 (1,50); 8,0731 (1,78); 7,8439 (1,38); 7,8244 (2,03); 7,8043 (1,29); 7,7289 (2,98); 7,7111 (3,71); 7,7074 (2,72); 7,5768 (0,52); 7,5738 (0,37); 7,5651 (0,44); 7,5585 (1,80); 7,5529 (0,59); 7,5435 (1,08); 7,5404 (1,59); 7,5119 (2,76); 7,4963 (1,92); 7,4927 (3,41); 7,4791 (0,59); 7,4751 (1,29); 7,4720 (0,80); 7,1436 (2,08); 7,1254 (1,99); 5,3696 (7,11); 3,5033 (0,91); 3,4852 (3,04); 3,4670 (3,10); 3,4489 (0,96); 3,3413 (12,46); 2,5602 (0,35); 2,5324 (0,52); 2,5186 (11,43); 2,5145 (23,19); 2,5101 (31,21); 2,5057 (22,84); 2,4646 (0,39); 2,4601 (0,46); 2,4556 (0,33); 2,2822 (3,82); 2,2643 (4,64); 2,1022 (0,46); 2,0853 (0,83); 2,0684 (0,98); 2,0513 (0,77); 2,0341 (0,41); 1,0578 (3,39); 1,0397 (7,59); 1,0215 (3,33); 0,9258 (16,00); 0,9091 (15,75); 0,8953 (0,76); 0,8759 (0,34)

Ejemplo 281, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,0200 (2,46); 8,3677 (1,55); 8,3636 (2,85); 8,3595 (1,59); 8,1509 (1,72); 8,1305 (2,07); 8,0224 (0,91); 8,0198 (1,25); 8,0161 (0,96); 8,0028 (1,00); 8,0000 (1,28); 7,9965 (0,99); 7,9676 (1,01); 7,9649 (1,26); 7,9612 (1,03); 7,9533 (1,19); 7,9482 (1,33); 7,9443 (1,35); 7,9417 (0,99); 7,9289 (1,34); 7,9095 (1,89); 7,8893 (1,20); 7,7370 (2,65); 7,7242 (0,78); 7,7191 (3,38); 7,7153 (2,38); 7,5677 (0,48); 7,5559 (0,35); 7,5493 (1,69); 7,5437 (0,48); 7,5344 (0,88); 7,5312 (1,44); 7,5278 (0,73); 7,5015 (2,46); 7,4861 (1,65); 7,4823 (3,14); 7,4688 (0,48); 7,4647 (1,22); 7,4615 (0,68); 7,3370 (1,49); 7,3174 (2,77); 7,2978 (1,35); 7,2416 (1,89); 7,2232 (1,81); 5,4172 (6,36); 3,3294 (54,36); 3,0805 (16,00); 2,8908

(8,70); 2,7319 (7,06); 2,5250 (0,74); 2,5118 (13,92); 2,5073 (27,85); 2,5027 (36,77); 2,4981 (26,76); 2,4936 (12,83); 0,0080 (0,38); -0,0002 (11,62); -0,0085 (0,35)

Ejemplo 282, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,0952 (3,12); 7,8296 (0,38); 7,8084 (2,33); 7,8011 (2,52); 7,7944 (5,57); 7,7801 (0,48); 7,7305 (2,80); 7,7175 (0,87); 7,7126 (3,46); 7,7089 (2,53); 7,5694 (0,50); 7,5664 (0,34); 7,5575 (0,38); 7,5511 (1,71); 7,5456 (0,52); 7,5360 (0,93); 7,5329 (1,47); 7,5024 (2,53); 7,4867 (1,76); 7,4832 (3,22); 7,4695 (0,51); 7,4655 (1,21); 7,4625 (0,73); 7,1017 (1,33); 7,0949 (1,30); 7,0877 (1,16); 7,0810 (1,27); 5,7679 (0,50); 5,3323 (6,88); 4,8468 (0,51); 4,8312 (0,81); 4,8146 (0,82); 4,7991 (0,52); 3,4002 (1,35); 3,3506 (114,16); 3,3011 (1,16); 3,0779 (16,00); 2,5599 (0,44); 2,5554 (0,36); 2,5327 (0,62); 2,5190 (13,97); 2,5148 (28,89); 2,5104 (39,28); 2,5060 (28,69); 2,5019 (13,86); 2,4655 (0,34); 2,4610 (0,45); 2,4565 (0,37); 1,9969 (0,77); 1,5931 (0,52); 1,5889 (0,34); 1,5787 (0,44); 1,5745 (0,45); 1,5693 (0,69); 1,5603 (0,45); 1,5550 (0,54); 1,5507 (0,51); 1,5361 (0,69); 1,5193 (0,54); 1,5130 (0,44); 1,5053 (0,52); 1,4993 (0,65); 1,4835 (0,66); 1,4633 (0,34); 1,3874 (0,66); 1,3708 (0,99); 1,3540 (1,17); 1,3476 (0,93); 1,3362 (0,80); 1,3311 (0,84); 1,3193 (0,34); 1,3133 (0,54); 1,2355 (7,10); 1,2198 (7,05); 1,1814 (0,45); 0,9132 (3,75); 0,8949 (7,77); 0,8766 (3,27)

Ejemplo 283, Disolvente: DMSO, Espectrómetro: 400,13 MHz

11,4597 (1,60); 7,9113 (0,78); 7,8913 (1,69); 7,8723 (1,17); 7,7326 (2,70); 7,7198 (0,86); 7,7148 (3,40); 7,7111 (2,45); 7,5694 (0,49); 7,5663 (0,33); 7,5574 (0,38); 7,5511 (1,66); 7,5455 (0,51); 7,5360 (0,89); 7,5328 (1,43); 7,5296 (0,77); 7,5009 (2,42); 7,4854 (1,71); 7,4818 (3,12); 7,4681 (0,50); 7,4641 (1,21); 7,4610 (0,72); 7,2536 (1,56); 7,2332 (1,50); 5,7642 (6,38); 5,3885 (6,64); 4,4197 (2,03); 4,4033 (4,31); 4,3868 (2,06); 3,3963 (1,56); 3,3463 (92,86); 3,2958 (0,99); 3,0685 (16,00); 2,5577 (0,46); 2,5532 (0,38); 2,5301 (0,55); 2,5166 (10,67); 2,5122 (21,77); 2,5077 (29,27); 2,5033 (20,86); 2,4990 (9,75); 1,7398 (1,09); 1,7229 (2,25); 1,7047 (2,31); 1,6877 (1,16); 0,9557 (3,48); 0,9373 (7,16); 0,9187 (3,18)

Ejemplo 284, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5363 (2,05); 8,1219 (1,42); 8,1013 (1,65); 7,8375 (1,30); 7,8182 (1,79); 7,7979 (1,24); 7,7335 (0,33); 7,7254 (2,71); 7,7216 (1,38); 7,7128 (0,87); 7,7076 (3,63); 7,7039 (2,48); 7,5641 (0,50); 7,5609 (0,33); 7,5521 (0,38); 7,5457 (1,68); 7,5401 (0,52); 7,5307 (0,88); 7,5274 (1,43); 7,5241 (0,75); 7,4955 (2,51); 7,4920 (1,10); 7,4800 (1,70); 7,4762 (3,21); 7,4626 (0,49); 7,4586 (1,26); 7,4554 (0,71); 7,1502 (1,83); 7,1323 (1,77); 5,3644 (6,20); 3,3298 (63,56); 3,2303 (0,37); 3,0552 (16,00); 2,8911 (1,33); 2,7316 (1,05); 2,5431 (0,40); 2,5316 (0,63); 2,5254 (0,90); 2,5205 (1,60); 2,5122 (12,11); 2,5078 (23,99); 2,5032 (31,50); 2,4985 (23,15); 2,4940 (11,22); 1,5746 (0,50); 1,5575 (0,66); 1,5519 (0,59); 1,5413 (0,89); 1,5347 (0,68); 1,5233 (0,78); 1,5194 (0,75); 1,5010 (0,54); 1,4484 (0,42); 1,4353 (0,52); 1,4299 (0,50); 1,4164 (0,65); 1,4019 (0,51); 1,3969 (0,51); 1,3892 (0,49); 1,3835 (0,47); 1,3770 (0,52); 1,3645 (0,60); 1,3523 (0,52); 1,3436 (0,37); 1,3317 (0,46); 1,3193 (0,32); 1,3068 (0,41); 1,3001 (0,47); 1,2817 (1,02); 1,2632 (1,34); 1,2451 (1,38); 1,2287 (1,07); 1,2220 (0,79); 1,2059 (0,95); 1,1933 (0,56); 1,1888 (0,51); 1,1739 (0,49); 1,1624 (0,36); 0,8759 (0,71); 0,8624 (0,55); 0,8568 (0,68); 0,8470 (4,95); 0,8291 (10,76); 0,8108 (5,01); -0,0002 (5,59)

Ejemplo 285, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,0705 (2,77); 7,9536 (0,36); 7,8216 (0,41); 7,8005 (2,24); 7,7921 (2,44); 7,7860 (5,46); 7,7711 (0,49); 7,7226 (2,67); 7,7187 (1,30); 7,7098 (0,84); 7,7048 (3,49); 7,7010 (2,43); 7,5621 (0,50); 7,5503 (0,37); 7,5438 (1,67); 7,5381 (0,49); 7,5289 (0,91); 7,5256 (1,45); 7,5222 (0,74); 7,4951 (2,47); 7,4919 (1,05); 7,4797 (1,72); 7,4760 (3,15); 7,4624 (0,51); 7,4583 (1,24); 7,4551 (0,70); 7,0950 (1,33); 7,0886 (1,32); 7,0806 (1,15); 7,0742 (1,26); 5,3254 (6,53); 4,8215 (0,47); 4,8062 (0,78); 4,7893 (0,78); 4,7738 (0,48); 3,3407 (96,03); 3,0703 (16,00); 2,8915 (2,89); 2,7327 (2,25); 2,7320 (2,25); 2,5262 (0,53); 2,5213 (0,88); 2,5129 (10,07); 2,5085 (19,85); 2,5039 (26,06); 2,4993 (18,98); 2,4948 (9,12); 1,5881 (0,36); 1,5747 (0,42); 1,5658 (0,48); 1,5564 (0,42); 1,5509 (0,51); 1,5322 (0,59); 1,5152 (0,44); 1,5066 (0,54); 1,4929 (0,46); 1,3536 (0,50); 1,3363 (0,71); 1,3321 (0,72); 1,3193 (0,78); 1,3149 (0,81); 1,3045 (0,94); 1,2950 (1,34); 1,2863 (1,61); 1,2797 (2,04); 1,2703 (3,01); 1,2541 (1,61); 1,2431 (0,80); 1,2287 (6,76); 1,2130 (6,55); 0,8749 (1,76); 0,8582 (5,20); 0,8411 (1,83); -0,0002 (4,73)

Ejemplo 286, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,7750 (1,35); 7,9533 (0,60); 7,7398 (0,37); 7,7340 (2,02); 7,7314 (2,73); 7,7275 (1,36); 7,7189 (0,84); 7,7138 (3,47); 7,7100 (2,46); 7,5626 (0,51); 7,5594 (0,34); 7,5512 (0,38); 7,5443 (1,73); 7,5384 (0,52); 7,5296 (0,99); 7,5262 (1,55); 7,5227 (0,77); 7,5004 (2,57); 7,4971 (1,18); 7,4854 (1,72); 7,4814 (3,18); 7,4680 (0,52); 7,4639 (1,26); 7,4603 (0,76); 7,2548 (3,95); 5,3572 (0,33); 5,2852 (5,91); 3,9704 (0,55); 3,9495 (4,69); 3,9327 (4,70); 3,3295 (58,14); 3,0320 (16,00); 3,0231 (0,61); 3,0055 (0,91); 2,8909 (4,96); 2,7322 (3,94); 2,7313 (3,79); 2,5251 (0,61); 2,5203 (1,00); 2,5118 (11,94); 2,5073 (23,81); 2,5027 (31,39); 2,4981 (22,76); 2,4936 (10,82); 1,9567 (0,44); 1,9399 (0,86); 1,9231 (1,11); 1,9063 (0,90); 1,8896 (0,45); 1,2350 (0,33); 1,1216 (0,52); 1,1064 (0,51); 0,9226 (15,33); 0,9058 (14,86); 0,8933 (0,33); 0,7691 (1,58); 0,7522 (1,53); 0,0079 (0,35); -0,0002 (10,48); -0,0085 (0,32)

Ejemplo 287, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7077 (2,17); 8,0144 (1,38); 7,9939 (1,80); 7,9534 (0,62); 7,8623 (1,36); 7,8430 (1,89); 7,8227 (1,15); 7,7275 (2,71); 7,7146 (0,94); 7,7097 (3,53); 7,7060 (2,49); 7,5683 (0,51); 7,5651 (0,34); 7,5562 (0,42); 7,5500 (1,70); 7,5444 (0,52); 7,5350 (0,95); 7,5317 (1,46); 7,5284 (0,75); 7,4994 (2,48); 7,4838 (1,86); 7,4802 (3,21); 7,4665 (0,56); 7,4624 (1,28); 7,4594 (0,74); 7,1953 (1,87); 7,1770 (1,81); 7,0770 (2,58); 7,0565 (3,04); 6,8270 (0,55); 6,8201 (3,88); 6,8154 (1,29); 6,8032 (1,28); 6,7986 (3,28); 6,7914 (0,35); 5,3807 (6,32); 5,0371 (0,35); 5,0208 (1,21); 5,0043 (1,22); 4,9881 (0,35); 3,3311 (69,44); 3,0567 (16,00); 2,8905 (4,81); 2,7320 (3,89); 2,5250 (0,77); 2,5117 (14,21); 2,5073 (26,90); 2,5027 (34,43); 2,4981 (24,82); 2,4937 (11,83); 2,1976 (10,16); 1,5119 (5,69); 1,4954 (5,63); -0,0002 (4,65)

Ejemplo 288, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,4500 (2,47); 7,9533 (1,17); 7,8545 (0,85); 7,8337 (1,78); 7,8155 (1,90); 7,7901 (2,36); 7,7711 (1,12); 7,7244 (2,84); 7,7115 (0,89); 7,7066 (3,55); 7,7028 (2,54); 7,5624 (0,51); 7,5593 (0,34); 7,5506 (0,39); 7,5441 (1,74); 7,5385 (0,54); 7,5291 (0,96); 7,5259 (1,49); 7,5226 (0,80); 7,4958 (2,63); 7,4802 (1,83); 7,4766 (3,33); 7,4629 (0,53); 7,4589 (1,28); 7,4558 (0,74); 7,1345 (1,71); 7,1328 (1,71); 7,1166 (1,68); 7,1148 (1,58); 5,3445 (6,69); 4,3068 (2,26); 4,2918 (4,59); 4,2767 (2,35); 3,3322 (55,35); 3,0881 (0,45); 3,0698 (16,00); 2,9408 (2,44); 2,9257 (4,72); 2,9107 (2,35); 2,8907 (8,90); 2,7315 (7,16); 2,5252 (0,58); 2,5119 (10,49); 2,5074 (20,47); 2,5029 (26,75); 2,4983 (19,59); 2,4939 (9,53); -

0,0002 (4,03)
Ejemplo 289, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,8382 (0,82); 8,2864 (1,50); 8,2819 (2,62); 8,2774 (1,51); 8,0804 (0,90); 8,0778 (1,16); 8,0741 (0,90); 8,0608 (1,00); 8,0571 (1,22); 8,0545 (0,94); 7,9532 (0,46); 7,8530 (0,83); 7,8508 (0,95); 7,8482 (0,90); 7,8461 (0,82); 7,8330 (0,96); 7,8308 (1,03); 7,8282 (1,05); 7,8261 (0,89); 7,7496 (1,91); 7,7471 (2,60); 7,7431 (1,26); 7,7346 (0,77); 7,7295 (3,35); 7,7256 (2,30); 7,5686 (0,46); 7,5574 (0,33); 7,5503 (1,64); 7,5443 (0,51); 7,5327 (2,72); 7,5288 (0,89); 7,5134 (3,05); 7,5080 (2,62); 7,5046 (1,13); 7,4934 (2,73); 7,4890 (3,11); 7,4757 (0,49); 7,4715 (1,23); 7,4679 (0,72); 7,3997 (3,42); 5,3866 (5,58); 3,3426 (101,07); 3,0219 (16,00); 2,8915 (3,90); 2,7329 (3,01); 2,7320 (3,03); 2,5265 (0,57); 2,5217 (0,91); 2,5132 (11,98); 2,5086 (24,12); 2,5040 (31,99); 2,4994 (23,20); 2,4949 (11,01); -0,0002 (3,13)
Ejemplo 290, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3988 (2,83); 7,8336 (2,30); 7,8287 (2,35); 7,8207 (5,19); 7,8077 (0,34); 7,4434 (0,79); 7,4388 (1,18); 7,4220 (3,44); 7,4190 (3,83); 7,4157 (2,78); 7,4131 (2,79); 7,4076 (0,68); 7,3984 (3,61); 7,3958 (3,68); 7,3913 (1,19); 7,3792 (2,33); 7,3602 (0,72); 7,3557 (1,14); 7,3508 (0,57); 7,3459 (0,51); 7,3384 (1,09); 7,3215 (0,37); 7,2813 (1,35); 7,2790 (1,22); 7,2656 (0,72); 7,2618 (1,13); 7,2596 (0,95); 7,2437 (1,47); 7,2377 (1,88); 7,2336 (1,31); 7,1422 (1,05); 7,1403 (1,12); 7,1360 (1,09); 7,1341 (0,98); 7,1226 (1,64); 7,1154 (2,04); 7,1027 (1,16); 5,7688 (7,76); 5,3422 (5,76); 5,1856 (6,65); 3,7858 (16,00); 3,4000 (1,19); 3,3500 (96,57); 3,3264 (0,61); 3,3000 (0,91); 3,0634 (0,62); 3,0542 (14,52); 2,5599 (0,33); 2,5187 (9,19); 2,5143 (19,51); 2,5098 (26,74); 2,5053 (19,07); 2,5009 (8,79); 1,9968 (0,40)
Ejemplo 291, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5535 (2,45); 8,0774 (1,51); 8,0567 (1,87); 7,9531 (1,07); 7,8944 (1,41); 7,8749 (2,05); 7,8549 (1,20); 7,7282 (2,93); 7,7103 (3,67); 7,7066 (2,68); 7,5666 (0,53); 7,5636 (0,36); 7,5546 (0,42); 7,5483 (1,81); 7,5428 (0,57); 7,5331 (1,02); 7,5301 (1,54); 7,5269 (0,85); 7,4990 (2,71); 7,4798 (3,47); 7,4659 (0,58); 7,4621 (1,33); 7,4591 (0,82); 7,3608 (1,26); 7,3418 (1,65); 7,2478 (0,66); 7,2297 (1,44); 7,2120 (2,96); 7,1941 (2,57); 7,1785 (1,52); 7,1614 (0,69); 7,0748 (1,56); 7,0567 (1,15); 5,3861 (6,82); 4,9128 (0,91); 4,8752 (2,31); 4,8329 (2,03); 4,7953 (0,79); 4,1945 (1,83); 4,1732 (1,91); 3,3299 (76,90); 3,2517 (0,66); 3,2333 (0,92); 3,2148 (0,63); 3,0958 (0,46); 3,0854 (0,44); 3,0703 (16,00); 2,8904 (7,84); 2,7317 (6,48); 2,5246 (0,89); 2,5113 (15,64); 2,5069 (30,26); 2,5024 (39,50); 2,4979 (29,41); 2,4936 (14,76); 1,2661 (6,42); 1,2488 (6,34); 1,2353 (0,43); -0,0002 (8,21)
Ejemplo 292, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,0906 (2,91); 7,8316 (0,45); 7,8106 (2,16); 7,8001 (2,59); 7,7951 (4,96); 7,7795 (0,62); 7,7311 (2,80); 7,7181 (0,96); 7,7132 (3,48); 7,7096 (2,55); 7,5696 (0,51); 7,5665 (0,36); 7,5578 (0,42); 7,5513 (1,71); 7,5457 (0,55); 7,5363 (0,97); 7,5331 (1,51); 7,5299 (0,83); 7,5029 (2,57); 7,4873 (1,82); 7,4837 (3,22); 7,4701 (0,55); 7,4661 (1,22); 7,4630 (0,76); 7,1024 (1,36); 7,0967 (1,35); 7,0874 (1,22); 7,0817 (1,29); 5,7644 (2,15); 5,3389 (6,96); 4,6343 (1,09); 4,6189 (1,59); 4,6034 (1,10); 3,3258 (8,17); 3,3019 (0,51); 3,0752 (16,00); 2,5643 (0,36); 2,5598 (0,50); 2,5553 (0,37); 2,5184 (10,46); 2,5141 (20,80); 2,5097 (27,75); 2,5052 (20,12); 2,5011 (9,73); 1,9967 (0,88); 1,8155 (0,55); 1,7987 (0,87); 1,7834 (0,90); 1,7666 (0,60); 1,2867 (0,39); 1,2527 (1,85); 1,2003 (0,46); 1,1879 (7,34); 1,1720 (7,27); 0,9252 (6,99); 0,9176 (7,32); 0,9083 (7,07); 0,9007 (6,78); 0,8824 (0,96); 0,8657 (2,52); 0,8481 (1,04)
Ejemplo 293, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2789 (3,15); 7,8438 (0,62); 7,8228 (1,93); 7,8054 (3,57); 7,8002 (2,69); 7,7832 (0,75); 7,7793 (0,42); 7,7257 (2,84); 7,7078 (3,51); 7,7041 (2,48); 7,5642 (0,52); 7,5610 (0,35); 7,5520 (0,42); 7,5457 (1,74); 7,5402 (0,52); 7,5307 (0,93); 7,5275 (1,46); 7,4965 (2,61); 7,4809 (1,82); 7,4773 (3,26); 7,4636 (0,54); 7,4596 (1,24); 7,4567 (0,74); 7,1155 (1,45); 7,1117 (1,47); 7,0989 (1,36); 7,0951 (1,37); 5,3380 (6,63); 4,1862 (1,65); 4,1705 (3,40); 4,1547 (1,67); 3,3866 (0,40); 3,3374 (24,34); 3,2878 (0,41); 3,0613 (16,00); 2,5124 (2,45); 2,5081 (4,96); 2,5036 (6,66); 2,4992 (4,73); 2,4950 (2,19); 2,4122 (0,34); 2,3838 (0,60); 2,3638 (0,66); 2,3425 (0,65); 2,3154 (0,35); 1,9055 (0,43); 1,8899 (1,05); 1,8748 (1,00); 1,8663 (1,06); 1,8497 (0,95); 1,8339 (0,36); -0,0002 (3,50)
Ejemplo 294, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6890 (2,49); 8,1522 (0,93); 8,1315 (1,09); 7,8916 (1,25); 7,8721 (1,85); 7,8520 (1,16); 7,8050 (1,30); 7,8008 (1,38); 7,7857 (1,46); 7,7815 (1,41); 7,7131 (2,66); 7,7003 (0,83); 7,6952 (3,45); 7,6916 (2,47); 7,5588 (0,53); 7,5557 (0,33); 7,5466 (0,41); 7,5406 (1,71); 7,5349 (0,52); 7,5224 (2,03); 7,5186 (1,47); 7,5043 (1,15); 7,5021 (1,24); 7,5001 (1,26); 7,4979 (1,10); 7,4869 (2,60); 7,4837 (2,02); 7,4794 (1,19); 7,4712 (1,81); 7,4677 (3,23); 7,4540 (0,53); 7,4499 (1,28); 7,4469 (0,76); 7,4106 (1,68); 7,4054 (0,66); 7,3918 (2,78); 7,3893 (2,68); 7,3753 (0,88); 7,3706 (2,30); 7,2762 (1,04); 7,2738 (1,03); 7,2572 (1,72); 7,2551 (1,68); 7,2386 (0,87); 7,2362 (0,84); 7,2005 (1,89); 7,1871 (1,28); 7,1822 (1,99); 7,1687 (1,87); 7,1525 (0,51); 7,1501 (0,83); 7,1476 (0,52); 7,1309 (2,34); 7,1286 (2,70); 7,1093 (2,38); 6,9056 (1,77); 6,9041 (1,75); 6,8849 (1,69); 5,3532 (5,98); 3,3296 (46,78); 3,0321 (16,00); 2,8901 (1,73); 2,7318 (1,42); 2,7307 (1,38); 2,5249 (0,61); 2,5200 (0,95); 2,5115 (11,41); 2,5070 (22,62); 2,5024 (29,74); 2,4978 (21,66); 2,4933 (10,40); -0,0002 (7,59)
Ejemplo 295, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2021 (3,03); 7,8194 (2,48); 7,8139 (2,57); 7,8063 (5,69); 7,7929 (0,38); 7,6238 (0,66); 7,6198 (0,99); 7,6141 (0,93); 7,6087 (0,73); 7,6054 (1,17); 7,6020 (0,92); 7,5989 (0,96); 7,5945 (1,23); 7,5884 (2,44); 7,5859 (2,27); 7,5638 (0,76); 7,5496 (0,85); 7,5436 (1,15); 7,5292 (1,21); 7,5239 (0,60); 7,5086 (0,53); 7,4333 (0,52); 7,4305 (0,58); 7,4271 (0,53); 7,4241 (0,49); 7,4093 (0,93); 7,4053 (0,81); 7,3911 (0,42); 7,3883 (0,43); 7,3850 (0,40); 7,3822 (0,34); 7,1167 (1,31); 7,1091 (1,31); 7,1036 (1,13); 7,0960 (1,26); 5,7681 (4,69); 5,3569 (6,73); 4,1129 (2,13); 4,0963 (4,54); 4,0797 (2,17); 3,4003 (0,73); 3,3503 (83,72); 3,3005 (0,85); 3,0656 (16,00); 2,5321 (0,53); 2,5185 (12,25); 2,5142 (25,77); 2,5097 (35,14); 2,5053 (25,40); 2,5009 (11,99); 2,4642 (0,35); 2,4599 (0,42); 1,6318 (0,45); 1,6147 (1,42); 1,6084 (0,53); 1,5974 (1,82); 1,5777 (1,54); 1,5611 (0,62); 1,4181 (0,32); 1,3996 (1,13); 1,3805 (1,78); 1,3616 (1,80); 1,3435 (1,07); 0,9310 (4,22); 0,9127 (8,61); 0,8941 (3,62)
Ejemplo 296, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5653 (2,11); 8,0322 (0,93); 8,0114 (1,20); 7,9526 (0,57); 7,8814 (1,32); 7,8622 (1,82); 7,8419 (1,12); 7,7279 (2,60); 7,7241 (1,26); 7,7152 (0,80); 7,7101 (3,42); 7,7064 (2,39); 7,5680 (0,49); 7,5560 (0,37); 7,5497 (1,65); 7,5439 (0,49); 7,5347 (0,88); 7,5314 (1,42); 7,5280 (0,72); 7,5001 (2,40); 7,4967 (1,02); 7,4847 (1,67); 7,4809 (3,11); 7,4673 (0,49); 7,4633 (1,23); 7,4601 (0,69); 7,2018 (1,78); 7,1835 (1,74); 7,1030

(2,47); 7,0826 (2,95); 6,8616 (0,47); 6,8542 (3,89); 6,8491 (1,20); 6,8377 (1,13); 6,8327 (3,27); 5,3810 (6,19); 4,7431 (6,57); 3,3497 (123,82); 3,0655 (16,00); 2,8907 (4,55); 2,7323 (3,65); 2,7313 (3,54); 2,5260 (0,60); 2,5128 (11,48); 2,5083 (22,74); 2,5037 (29,82); 2,4991 (21,60); 2,4946 (10,25); 2,2250 (10,15); -0,0002 (2,80)
Ejemplo 297, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,3734 (0,52); 7,3625 (0,62); 5,8215 (0,71); 5,4128 (0,36); 3,4142 (16,00); 3,1179 (0,93); 2,5748 (0,94); 2,5704 (1,97); 2,5659 (2,68); 2,5614 (1,90); 2,5570 (0,88)
Ejemplo 298, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2484 (2,39); 7,9534 (0,83); 7,8248 (0,61); 7,8038 (1,65); 7,7867 (2,12); 7,7805 (1,88); 7,7772 (2,09); 7,7597 (0,68); 7,7563 (0,46); 7,7251 (1,89); 7,7226 (2,41); 7,7187 (1,18); 7,7099 (0,77); 7,7048 (3,20); 7,7011 (2,24); 7,6211 (1,42); 7,6182 (1,43); 7,6011 (1,55); 7,5982 (1,49); 7,5628 (0,46); 7,5509 (0,35); 7,5445 (1,55); 7,5388 (0,47); 7,5296 (0,84); 7,5262 (1,35); 7,5228 (0,69); 7,4956 (2,24); 7,4922 (0,97); 7,4802 (1,55); 7,4765 (2,89); 7,4629 (0,48); 7,4588 (1,19); 7,4556 (0,70); 7,4476 (0,99); 7,4433 (1,04); 7,4285 (1,51); 7,4243 (1,46); 7,3636 (0,83); 7,3606 (0,84); 7,3451 (1,48); 7,3421 (1,40); 7,3263 (0,74); 7,3232 (0,69); 7,2615 (0,42); 7,2452 (0,46); 7,2151 (0,84); 7,2107 (0,83); 7,1956 (1,11); 7,1918 (1,06); 7,1768 (0,62); 7,1724 (0,58); 7,1076 (1,33); 7,1042 (1,34); 7,0905 (1,29); 7,0870 (1,25); 5,3310 (5,73); 4,3271 (1,48); 4,3099 (3,37); 4,2927 (1,54); 3,3297 (54,92); 3,0986 (1,40); 3,0814 (2,94); 3,0634 (16,00); 2,8907 (6,64); 2,7322 (5,40); 2,7310 (5,22); 2,5252 (0,66); 2,5118 (11,96); 2,5073 (23,52); 2,5027 (30,86); 2,4981 (22,42); 2,4936 (10,72); -0,0002 (7,07)
Ejemplo 300, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1755 (6,27); 7,8379 (1,21); 7,8168 (4,35); 7,8011 (9,36); 7,7974 (6,41); 7,7874 (0,39); 7,7810 (1,42); 7,7763 (0,68); 7,7288 (4,42); 7,7264 (5,89); 7,7224 (2,90); 7,7138 (1,80); 7,7087 (7,61); 7,7049 (5,26); 7,5779 (0,59); 7,5748 (1,08); 7,5716 (0,75); 7,5631 (0,92); 7,5565 (3,72); 7,5507 (1,19); 7,5417 (2,13); 7,5383 (3,32); 7,5349 (1,70); 7,5105 (5,53); 7,5071 (2,44); 7,4953 (3,67); 7,4914 (6,78); 7,4779 (1,12); 7,4738 (2,70); 7,4705 (1,53); 7,0992 (3,00); 7,0946 (3,03); 7,0831 (2,78); 7,0785 (2,83); 5,3451 (14,17); 4,1046 (4,42); 4,0879 (9,60); 4,0712 (4,48); 3,5266 (1,80); 3,5085 (6,12); 3,4903 (6,24); 3,4722 (1,91); 3,4170 (0,98); 3,3670 (69,16); 3,3169 (0,75); 2,5647 (0,39); 2,5602 (0,58); 2,5557 (0,41); 2,5325 (0,90); 2,5191 (16,36); 2,5147 (33,99); 2,5102 (46,37); 2,5056 (32,84); 2,5012 (15,09); 2,4644 (0,37); 2,4600 (0,49); 2,4557 (0,37); 1,6470 (0,54); 1,6293 (1,98); 1,6121 (3,17); 1,5949 (2,25); 1,5778 (0,71); 1,3719 (1,55); 1,3653 (0,56); 1,3477 (2,42); 1,3444 (2,31); 1,3372 (4,03); 1,3296 (8,24); 1,3207 (6,12); 1,3116 (5,42); 1,2783 (0,39); 1,2413 (0,56); 1,0620 (6,97); 1,0439 (16,00); 1,0256 (6,73); 0,9020 (4,14); 0,8958 (2,36); 0,8887 (3,98); 0,8846 (11,41); 0,8728 (2,50); 0,8667 (3,29); 0,8535 (0,33)
Ejemplo 301, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5817 (2,01); 8,0676 (1,09); 8,0469 (1,31); 7,9533 (0,61); 7,8393 (1,24); 7,8200 (1,68); 7,7997 (1,13); 7,7234 (1,93); 7,7207 (2,49); 7,7168 (1,18); 7,7080 (0,75); 7,7029 (3,37); 7,6992 (2,32); 7,5640 (0,48); 7,5521 (0,35); 7,5457 (1,60); 7,5400 (0,47); 7,5308 (0,84); 7,5274 (1,39); 7,5240 (0,69); 7,4957 (2,34); 7,4922 (0,98); 7,4803 (1,60); 7,4765 (3,03); 7,4629 (0,47); 7,4588 (1,22); 7,4556 (0,67); 7,2924 (1,43); 7,2870 (0,61); 7,2783 (1,68); 7,2706 (1,96); 7,2621 (0,73); 7,2566 (1,76); 7,1448 (1,71); 7,1259 (1,76); 7,1173 (2,20); 7,1118 (0,63); 7,1008 (0,73); 7,0949 (3,46); 7,0889 (0,72); 7,0779 (0,59); 7,0726 (1,70); 5,3495 (5,92); 3,3272 (45,85); 3,0539 (0,44); 3,0439 (16,00); 2,9030 (0,99); 2,8904 (5,61); 2,8848 (2,09); 2,8648 (1,47); 2,7318 (4,10); 2,7308 (3,99); 2,7112 (1,68); 2,6911 (2,30); 2,6724 (1,23); 2,5250 (0,71); 2,5202 (1,11); 2,5115 (13,41); 2,5070 (26,81); 2,5024 (35,26); 2,4978 (25,40); 2,4932 (11,99); 0,0080 (0,42); -0,0002 (12,90); -0,0085 (0,38)
Ejemplo 302, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5751 (1,95); 8,0622 (1,18); 8,0415 (1,42); 7,8378 (1,28); 7,8186 (1,79); 7,7983 (1,19); 7,7239 (2,63); 7,7201 (1,30); 7,7112 (0,81); 7,7061 (3,53); 7,7023 (2,40); 7,5646 (0,48); 7,5527 (0,37); 7,5463 (1,68); 7,5406 (0,49); 7,5314 (0,89); 7,5280 (1,44); 7,5247 (0,73); 7,4975 (2,46); 7,4941 (1,05); 7,4821 (1,68); 7,4784 (3,15); 7,4648 (0,49); 7,4607 (1,24); 7,4575 (0,69); 7,1459 (1,79); 7,1275 (1,75); 5,3552 (6,34); 3,3313 (57,75); 3,0564 (16,00); 2,8909 (0,69); 2,8048 (1,11); 2,7982 (2,33); 2,7916 (1,11); 2,7322 (0,57); 2,5253 (0,64); 2,5205 (1,04); 2,5120 (11,23); 2,5075 (22,90); 2,5029 (28,76); 2,4983 (20,75); 2,4938 (10,21); 2,4883 (4,07); 2,4697 (1,89); 2,2215 (1,06); 2,2149 (1,11); 2,2035 (2,52); 2,1969 (2,46); 2,1858 (1,30); 2,1792 (1,22); 1,7808 (0,50); 1,7628 (1,78); 1,7446 (2,56); 1,7265 (1,66); 1,7082 (0,39); 0,8758 (0,46); -0,0002 (5,54)
Ejemplo 303, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5034 (2,10); 8,0708 (1,22); 8,0501 (1,45); 7,8310 (1,27); 7,8118 (1,75); 7,7914 (1,20); 7,7258 (2,01); 7,7234 (2,56); 7,7195 (1,26); 7,7106 (0,79); 7,7055 (3,50); 7,7017 (2,38); 7,5638 (0,49); 7,5520 (0,36); 7,5456 (1,65); 7,5399 (0,48); 7,5306 (0,87); 7,5273 (1,41); 7,5239 (0,71); 7,4961 (2,41); 7,4927 (1,01); 7,4807 (1,65); 7,4769 (3,08); 7,4633 (0,48); 7,4593 (1,23); 7,4560 (0,67); 7,1401 (1,75); 7,1217 (1,72); 5,3530 (6,14); 3,3298 (59,04); 3,0538 (16,00); 2,5255 (0,55); 2,5207 (0,88); 2,5122 (10,97); 2,5076 (21,92); 2,5030 (28,82); 2,4984 (20,84); 2,4939 (9,85); 2,3883 (1,42); 2,3699 (2,74); 2,3515 (1,55); 1,5786 (0,72); 1,5611 (1,06); 1,5439 (0,73); 1,2645 (4,43); 1,2525 (4,67); 1,2380 (7,50); 0,8757 (0,48); 0,8610 (1,82); 0,8441 (5,76); 0,8267 (1,94); -0,0002 (6,01)
Ejemplo 304, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,8355 (2,01); 8,1896 (1,63); 8,1692 (1,88); 7,8924 (1,28); 7,8729 (1,87); 7,8529 (1,22); 7,7345 (2,69); 7,7216 (0,91); 7,7167 (3,42); 7,7130 (2,45); 7,5740 (0,51); 7,5709 (0,35); 7,5620 (0,41); 7,5556 (1,64); 7,5500 (0,55); 7,5407 (0,94); 7,5374 (1,45); 7,5341 (0,78); 7,5063 (2,45); 7,4909 (1,73); 7,4872 (3,13); 7,4735 (0,55); 7,4695 (1,23); 7,4664 (0,72); 7,1973 (1,87); 7,1792 (1,78); 6,6584 (0,92); 6,6330 (1,09); 6,6159 (1,36); 6,5904 (1,30); 6,3429 (1,55); 6,3382 (1,57); 6,3004 (1,18); 6,2956 (1,16); 5,8106 (1,49); 5,8059 (1,27); 5,7853 (1,24); 5,7805 (1,38); 5,3846 (6,54); 3,4060 (4,17); 3,4030 (0,76); 3,3548 (290,02); 3,3064 (2,05); 3,3037 (2,28); 3,0602 (16,00); 2,6799 (0,45); 2,6755 (0,35); 2,5713 (0,43); 2,5668 (0,73); 2,5623 (0,90); 2,5577 (0,61); 2,5333 (1,13); 2,5197 (25,85); 2,5153 (54,79); 2,5109 (75,93); 2,5064 (57,01); 2,5020 (29,30); 2,4643 (1,40); 2,4599 (1,19); 2,3424 (0,35); 2,3378 (0,48); 2,3332 (0,37); 2,0844 (1,74)
Ejemplo 305, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1303 (1,45); 7,8128 (0,98); 7,8011 (1,25); 7,7970 (2,15); 7,7299 (1,32); 7,7120 (1,62); 7,7083 (1,19); 7,5496 (0,79); 7,5345 (0,45); 7,5314 (0,69); 7,5007 (1,20); 7,4849 (0,88); 7,4815 (1,51); 7,4639 (0,60); 7,1003 (0,64); 7,0950 (0,63); 7,0851 (0,58); 7,0797 (0,61); 5,3422 (3,17);

4,5504 (0,86); 4,5343 (0,87); 3,4017 (0,75); 3,3517 (60,76); 3,3007 (0,38); 3,0662 (7,33); 2,5121 (12,87); 2,5077 (17,01); 2,5034 (12,34); 1,1513 (3,30); 1,1352 (3,28); 0,9115 (16,00)
Ejemplo 306, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,4951 (2,75); 7,8642 (0,94); 7,8437 (1,78); 7,8249 (1,67); 7,7724 (2,22); 7,7523 (1,40); 7,7318 (2,74); 7,7189 (0,93); 7,7139 (3,47); 7,7102 (2,47); 7,5692 (0,51); 7,5660 (0,38); 7,5574 (0,42); 7,5509 (1,74); 7,5452 (0,54); 7,5359 (0,95); 7,5327 (1,47); 7,5294 (0,77); 7,5024 (2,51); 7,4869 (1,75); 7,4833 (3,18); 7,4697 (0,53); 7,4656 (1,24); 7,4625 (0,75); 7,1503 (1,82); 7,1326 (1,75); 5,7642 (5,61); 5,3520 (6,47); 5,2171 (0,63); 5,2130 (0,74); 5,2020 (1,22); 5,1979 (0,64); 5,1909 (0,70); 5,1866 (0,76); 4,0461 (0,40); 4,0283 (0,40); 3,9591 (1,44); 3,9480 (1,61); 3,9294 (3,60); 3,9185 (3,17); 3,8929 (3,27); 3,8774 (3,29); 3,8632 (1,54); 3,8478 (1,49); 3,3268 (10,91); 3,0843 (16,00); 2,5319 (0,47); 2,5186 (9,15); 2,5142 (18,42); 2,5097 (24,73); 2,5053 (17,65); 2,5009 (8,30); 1,9968 (1,70); 1,3740 (0,87); 1,2540 (0,46); 1,2004 (0,47); 1,1826 (0,90); 1,1648 (0,44); 0,8658 (0,64)
Ejemplo 307, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7662 (2,02); 7,9923 (0,70); 7,9716 (2,06); 7,9544 (3,68); 7,9488 (2,77); 7,9322 (0,83); 7,7339 (2,77); 7,7160 (3,50); 7,7123 (2,60); 7,5723 (0,59); 7,5693 (0,44); 7,5604 (0,52); 7,5541 (1,76); 7,5484 (0,66); 7,5391 (1,04); 7,5358 (1,54); 7,5326 (0,92); 7,5039 (2,87); 7,4999 (2,41); 7,4942 (1,14); 7,4844 (4,11); 7,4788 (3,45); 7,4666 (1,94); 7,4600 (3,02); 7,4060 (3,23); 7,3866 (1,99); 7,3629 (0,96); 7,3601 (1,32); 7,3419 (2,03); 7,3372 (1,99); 7,3332 (1,68); 7,3267 (0,82); 7,3203 (1,75); 7,3163 (1,45); 5,7616 (1,24); 5,4392 (6,75); 3,3368 (242,25); 3,2532 (0,67); 3,2134 (0,36); 3,0760 (16,00); 2,6760 (0,42); 2,6712 (0,35); 2,5157 (22,45); 2,5113 (44,00); 2,5069 (58,73); 2,5024 (42,83); 2,4982 (21,79); 2,3380 (0,36); 2,3339 (0,46); 2,3291 (0,35); 1,9936 (0,48); 1,2393 (0,34)
Ejemplo 308, Disolvente: DMSO, Espectrómetro: 400,13 MHz
8,4946 (0,35); 7,9608 (0,78); 7,5519 (5,07); 7,5313 (5,95); 7,2961 (5,25); 7,2760 (4,82); 7,0021 (3,34); 6,9834 (1,17); 6,9611 (0,58); 6,7589 (0,48); 6,7475 (0,48); 6,7362 (0,37); 6,7248 (0,36); 6,5653 (5,42); 5,2835 (0,60); 5,0766 (8,67); 3,1224 (0,36); 3,1101 (0,68); 3,1043 (1,12); 3,0860 (1,13); 3,0677 (0,42); 2,9646 (0,46); 2,9424 (0,59); 2,8976 (5,66); 2,7391 (4,59); 2,7380 (4,66); 2,5603 (0,41); 2,5557 (0,43); 2,5509 (0,42); 2,5331 (0,36); 2,5283 (0,65); 2,5194 (13,51); 2,5151 (29,37); 2,5106 (40,95); 2,5061 (30,28); 2,5018 (14,89); 2,4699 (0,46); 2,4652 (0,59); 2,4607 (0,70); 2,4562 (0,56); 2,4275 (0,36); 2,3926 (0,37); 2,3519 (16,00); 2,3206 (0,44); 2,3026 (0,40); 1,2036 (1,64); 1,1854 (3,50); 1,1672 (1,64)
Ejemplo 309, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,3176 (1,10); 7,9596 (0,98); 7,9575 (1,12); 7,9391 (2,11); 7,9369 (1,93); 7,9072 (1,61); 7,8887 (1,76); 7,8681 (0,91); 7,7338 (1,85); 7,7311 (2,43); 7,7272 (1,22); 7,7185 (0,80); 7,7134 (3,35); 7,7096 (2,29); 7,5668 (0,48); 7,5550 (0,35); 7,5485 (1,58); 7,5428 (0,48); 7,5336 (0,85); 7,5302 (1,41); 7,5268 (0,70); 7,5044 (0,48); 7,4992 (2,31); 7,4957 (1,02); 7,4839 (1,57); 7,4801 (2,97); 7,4665 (0,46); 7,4624 (1,21); 7,4592 (0,67); 7,2448 (1,48); 7,2426 (1,52); 7,2265 (1,48); 7,2243 (1,42); 5,4005 (6,19); 3,3294 (55,22); 3,0910 (0,33); 3,0797 (16,00); 3,0660 (0,33); 2,8907 (2,20); 2,7320 (1,76); 2,7308 (1,72); 2,5249 (0,59); 2,5201 (0,98); 2,5116 (10,84); 2,5071 (21,47); 2,5025 (28,28); 2,4978 (20,42); 2,4933 (9,62); 1,4784 (0,34); 1,4674 (0,47); 1,4617 (0,90); 1,4543 (1,07); 1,4427 (0,67); 1,4338 (0,37); 1,4165 (0,84); 1,4104 (1,10); 1,4085 (1,14); 1,3983 (0,82); 1,3868 (0,36); 1,3685 (0,70); 1,3573 (1,37); 1,3479 (1,50); 1,3366 (1,20); 1,3342 (1,17); 1,3289 (0,93); 1,3108 (0,36); 0,8756 (0,43); -0,0002 (5,94)
Ejemplo 310, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2343 (1,95); 8,1087 (0,50); 8,0893 (0,32); 7,9529 (1,04); 7,9064 (0,39); 7,8876 (0,32); 7,8227 (0,48); 7,8017 (1,47); 7,7847 (2,76); 7,7794 (1,93); 7,7624 (0,53); 7,7226 (2,31); 7,7048 (3,01); 7,7011 (2,12); 7,6822 (0,56); 7,6642 (0,64); 7,6608 (0,50); 7,5892 (0,36); 7,5695 (0,37); 7,5630 (0,43); 7,5510 (0,37); 7,5447 (1,39); 7,5391 (0,63); 7,5299 (0,99); 7,5264 (1,34); 7,5229 (0,73); 7,4958 (2,30); 7,4924 (0,98); 7,4805 (1,57); 7,4767 (2,96); 7,4630 (0,78); 7,4590 (1,26); 7,4558 (0,76); 7,4514 (0,46); 7,4442 (0,58); 7,4398 (0,66); 7,4280 (0,69); 7,4239 (0,64); 7,4030 (0,34); 7,3382 (0,46); 7,3170 (0,57); 7,2332 (0,38); 7,2250 (3,92); 7,2219 (2,99); 7,2068 (5,84); 7,1038 (1,10); 7,0998 (1,12); 7,0872 (1,05); 7,0832 (1,05); 6,9745 (0,36); 6,8804 (0,36); 6,8730 (3,25); 6,8678 (0,97); 6,8565 (0,94); 6,8513 (2,89); 6,0032 (0,41); 5,5344 (1,14); 5,3314 (4,96); 5,1786 (0,99); 4,2520 (1,21); 4,2346 (2,78); 4,2173 (1,26); 3,7187 (16,00); 3,3402 (147,09); 3,0878 (2,53); 3,0642 (13,07); 3,0361 (3,25); 2,8906 (8,67); 2,8806 (1,16); 2,8632 (2,24); 2,8460 (1,04); 2,7322 (6,81); 2,7310 (6,82); 2,5255 (0,81); 2,5207 (1,32); 2,5122 (16,89); 2,5077 (33,74); 2,5031 (44,53); 2,4984 (32,34); 2,4939 (15,43); -0,0002 (2,35)
Ejemplo 311, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6801 (2,05); 8,0262 (0,75); 8,0054 (0,97); 7,9533 (0,54); 7,8844 (1,30); 7,8652 (1,73); 7,8449 (1,09); 7,7320 (1,88); 7,7293 (2,50); 7,7255 (1,19); 7,7167 (0,73); 7,7116 (3,35); 7,7079 (2,31); 7,5674 (0,47); 7,5555 (0,34); 7,5491 (1,59); 7,5434 (0,46); 7,5341 (0,84); 7,5308 (1,39); 7,5274 (0,69); 7,4996 (2,30); 7,4961 (0,96); 7,4842 (1,56); 7,4805 (2,97); 7,4669 (0,46); 7,4628 (1,20); 7,4596 (0,66); 7,3586 (0,64); 7,3378 (1,37); 7,3200 (1,26); 7,3173 (0,91); 7,2997 (0,59); 7,2070 (1,66); 7,1896 (1,61); 6,8686 (0,56); 6,8626 (1,23); 6,8567 (0,83); 6,8404 (0,46); 6,8346 (1,14); 6,8263 (1,20); 6,8241 (1,70); 6,8208 (1,28); 6,8182 (1,05); 6,8154 (0,70); 6,8034 (1,29); 6,7997 (1,72); 6,7976 (1,56); 6,7945 (1,01); 6,7790 (0,55); 6,7772 (0,50); 6,7730 (0,42); 6,7713 (0,37); 5,3863 (5,92); 4,8317 (6,00); 3,3310 (56,17); 3,0697 (16,00); 2,8905 (4,50); 2,7320 (3,56); 2,7309 (3,46); 2,5252 (0,59); 2,5204 (0,93); 2,5118 (11,75); 2,5073 (23,51); 2,5027 (30,97); 2,4980 (22,33); 2,4935 (10,51); -0,0002 (6,98)
Ejemplo 312, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4977 (1,07); 7,9530 (0,84); 7,7382 (1,90); 7,7354 (2,59); 7,7315 (1,23); 7,7230 (0,79); 7,7178 (3,43); 7,7140 (2,30); 7,5662 (0,47); 7,5547 (0,35); 7,5479 (1,64); 7,5420 (0,48); 7,5331 (0,90); 7,5297 (1,49); 7,5262 (0,73); 7,5031 (2,44); 7,4997 (1,01); 7,4880 (1,58); 7,4840 (3,01); 7,4707 (0,47); 7,4665 (1,22); 7,4630 (0,66); 7,3252 (4,43); 7,0772 (2,42); 7,0568 (2,80); 6,8137 (0,44); 6,8064 (3,66); 6,8014 (1,12); 6,7898 (1,08); 6,7849 (3,15); 5,3337 (5,52); 5,0082 (0,37); 4,9917 (1,44); 4,9751 (1,46); 4,9586 (0,37); 3,3371 (72,07); 3,0111 (16,00); 2,8904 (6,99); 2,7322 (5,42); 2,7310 (5,57); 2,5255 (0,52); 2,5207 (0,86); 2,5122 (10,05); 2,5077 (19,96); 2,5031 (26,22); 2,4985 (18,83); 2,4939 (8,79); 2,1960 (9,43); 1,5253 (5,41); 1,5088 (5,36); -0,0002 (3,46)

Ejemplo 313, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6270 (2,08); 8,0373 (0,90); 8,0167 (1,13); 7,9533 (0,58); 7,8838 (1,37); 7,8645 (1,85); 7,8443 (1,15); 7,7954 (0,39); 7,7303 (2,72); 7,7265 (1,56); 7,7176 (0,93); 7,7124 (3,49); 7,7086 (2,54); 7,5679 (0,51); 7,5647 (0,36); 7,5560 (0,40); 7,5496 (1,74); 7,5439 (0,69); 7,5346 (0,94); 7,5313 (1,53); 7,5279 (0,87); 7,5004 (2,59); 7,4970 (1,36); 7,4850 (1,77); 7,4812 (3,38); 7,4677 (0,56); 7,4636 (1,34); 7,4603 (0,84); 7,3224 (1,90); 7,3158 (0,54); 7,3026 (2,47); 7,2999 (2,29); 7,2896 (0,49); 7,2822 (2,23); 7,2042 (1,83); 7,1864 (1,74); 6,9787 (1,01); 6,9764 (0,98); 6,9660 (2,78); 6,9635 (3,38); 6,9597 (3,35); 6,9494 (1,08); 6,9429 (4,65); 6,9359 (0,32); 5,3856 (6,31); 5,3362 (0,58); 4,7944 (6,74); 3,8868 (0,36); 3,8701 (0,37); 3,3346 (65,65); 3,0692 (16,00); 3,0596 (0,58); 2,8903 (4,69); 2,7319 (3,67); 2,5255 (0,56); 2,5206 (0,90); 2,5121 (9,87); 2,5076 (19,62); 2,5030 (25,88); 2,4984 (18,88); 2,4939 (9,15); 1,2343 (0,56); 0,9274 (1,14); 0,9142 (0,37); 0,9106 (1,13); -0,0002 (5,70)
Ejemplo 314, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4317 (0,74); 7,9526 (1,20); 7,7390 (2,69); 7,7351 (1,30); 7,7266 (0,77); 7,7214 (3,45); 7,7176 (2,40); 7,5666 (0,47); 7,5552 (0,34); 7,5482 (1,66); 7,5423 (0,50); 7,5335 (0,92); 7,5301 (1,51); 7,5267 (0,76); 7,5046 (2,51); 7,5012 (1,07); 7,4895 (1,58); 7,4855 (3,09); 7,4722 (0,47); 7,4681 (1,21); 7,4645 (0,68); 7,3430 (4,60); 7,2834 (1,19); 7,2632 (2,64); 7,2428 (2,00); 7,2274 (1,42); 7,2223 (2,18); 7,2168 (1,66); 7,1772 (1,24); 7,1751 (1,50); 7,1730 (1,24); 7,1708 (1,12); 7,1575 (0,88); 7,1554 (0,93); 7,1532 (0,89); 7,1510 (0,72); 7,0102 (1,04); 7,0082 (1,11); 7,0040 (1,05); 7,0021 (1,00); 6,9894 (0,93); 6,9875 (0,92); 6,9832 (0,93); 6,9813 (0,86); 5,3457 (5,76); 4,8880 (7,21); 3,3347 (91,17); 3,0214 (16,00); 2,8904 (9,66); 2,7318 (7,62); 2,7308 (7,75); 2,5251 (0,80); 2,5202 (1,21); 2,5117 (14,62); 2,5072 (29,20); 2,5026 (38,58); 2,4980 (28,01); 2,4935 (13,36); -0,0002 (3,21)
Ejemplo 315, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4292 (1,10); 7,9524 (0,91); 7,7415 (1,96); 7,7389 (2,67); 7,7350 (1,31); 7,7265 (0,85); 7,7213 (3,46); 7,7175 (2,41); 7,5667 (0,49); 7,5635 (0,34); 7,5553 (0,35); 7,5483 (1,67); 7,5425 (0,53); 7,5337 (0,92); 7,5303 (1,53); 7,5268 (0,79); 7,5048 (2,53); 7,5014 (1,15); 7,4898 (1,63); 7,4858 (3,13); 7,4724 (0,52); 7,4683 (1,24); 7,4647 (0,71); 7,3352 (4,68); 7,3280 (0,42); 7,3212 (1,97); 7,3156 (0,68); 7,3087 (0,50); 7,2989 (2,61); 7,2927 (0,37); 7,2872 (0,74); 7,2811 (2,16); 6,9835 (1,01); 6,9813 (0,90); 6,9667 (4,14); 6,9515 (1,30); 6,9461 (5,18); 5,3429 (5,92); 4,8426 (8,14); 4,8334 (0,55); 3,3374 (135,09); 3,3008 (0,33); 3,0224 (16,00); 2,8902 (7,54); 2,7316 (5,86); 2,7307 (5,95); 2,5248 (0,78); 2,5116 (14,77); 2,5071 (29,36); 2,5025 (38,78); 2,4979 (28,33); 2,4934 (13,71); 1,2348 (0,34); 1,1312 (0,55); 1,1160 (0,54); 0,0080 (0,37); -0,0002 (10,08)
Ejemplo 316, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,7797 (1,56); 8,0154 (1,22); 7,9956 (1,55); 7,8351 (1,07); 7,8160 (1,38); 7,7955 (0,95); 7,7281 (1,63); 7,7256 (2,08); 7,7218 (0,98); 7,7130 (0,64); 7,7079 (2,76); 7,7041 (1,91); 7,5637 (0,40); 7,5454 (1,33); 7,5397 (0,39); 7,5304 (0,69); 7,5271 (1,15); 7,5237 (0,58); 7,4951 (1,93); 7,4917 (0,83); 7,4796 (1,32); 7,4759 (2,50); 7,4623 (0,38); 7,4582 (1,00); 7,4551 (0,56); 7,1526 (1,38); 7,1350 (1,34); 5,3778 (4,99); 3,3271 (28,80); 3,1371 (0,50); 3,0675 (12,85); 2,5252 (0,48); 2,5204 (0,75); 2,5119 (9,13); 2,5073 (18,30); 2,5027 (24,18); 2,4981 (17,49); 2,4935 (8,27); 1,6465 (0,87); 1,6259 (0,76); 1,6175 (0,62); 1,6054 (1,01); 1,2727 (0,40); 1,2534 (0,96); 1,2353 (1,45); 1,2179 (0,87); 1,1885 (16,00); 1,1730 (1,20); 1,1623 (0,77); 1,1555 (0,63); 1,1440 (0,73); 1,1360 (0,58); 1,1287 (0,42); 1,1217 (0,45); 0,8557 (2,82); 0,8379 (5,68); 0,8196 (2,37); -0,0002 (9,76)
Ejemplo 317, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1338 (1,76); 7,8350 (0,51); 7,8142 (1,18); 7,7964 (1,33); 7,7795 (1,74); 7,7609 (0,75); 7,7317 (1,99); 7,7138 (2,40); 7,7102 (1,83); 7,5702 (0,34); 7,5584 (0,33); 7,5518 (1,17); 7,5465 (0,46); 7,5337 (1,03); 7,5038 (1,79); 7,4846 (2,24); 7,4670 (0,89); 7,1163 (1,11); 7,1003 (1,09); 5,7646 (4,79); 5,3393 (4,53); 3,5385 (3,49); 3,3282 (12,06); 3,3043 (1,20); 3,0957 (0,40); 3,0742 (10,25); 2,5146 (14,75); 2,5102 (19,75); 2,5059 (15,03); 2,4650 (0,47); 2,4605 (0,46); 1,9972 (0,51); 1,6757 (16,00); 1,6259 (0,32); 1,3742 (0,56)
Ejemplo 318, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4153 (0,70); 7,9530 (0,69); 7,7402 (2,57); 7,7363 (1,28); 7,7277 (0,77); 7,7226 (3,27); 7,7188 (2,30); 7,5665 (0,45); 7,5551 (0,32); 7,5481 (1,60); 7,5423 (0,49); 7,5335 (0,89); 7,5301 (1,46); 7,5266 (0,75); 7,5047 (2,43); 7,5014 (1,08); 7,4897 (1,54); 7,4857 (2,97); 7,4723 (0,47); 7,4682 (1,17); 7,4647 (0,67); 7,3372 (4,45); 7,2124 (1,11); 7,1936 (1,02); 7,1889 (1,27); 7,1761 (0,39); 7,1704 (1,14); 6,5674 (0,60); 6,5630 (1,09); 6,5598 (1,25); 6,5517 (0,54); 6,5452 (4,82); 6,5414 (5,79); 6,5253 (1,07); 6,5213 (1,17); 6,5174 (0,58); 5,3454 (5,49); 4,8238 (6,77); 3,7825 (0,48); 3,7233 (16,00); 3,3357 (39,45); 3,0205 (14,29); 2,8899 (5,54); 2,7318 (4,27); 2,7309 (4,41); 2,5253 (0,35); 2,5204 (0,56); 2,5120 (6,85); 2,5075 (13,71); 2,5029 (18,17); 2,4983 (13,29); 2,4938 (6,42); -0,0002 (3,59)
Ejemplo 319, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6252 (3,43); 7,6045 (3,97); 7,3099 (7,22); 7,3018 (2,61); 7,2960 (1,28); 7,2885 (3,34); 7,2832 (3,38); 7,2801 (2,98); 7,2662 (0,90); 7,2615 (2,31); 7,2557 (0,33); 7,2066 (0,49); 7,2041 (0,49); 7,1855 (0,37); 6,9577 (1,06); 6,9393 (1,89); 6,9207 (1,50); 6,9166 (2,90); 6,9143 (3,19); 6,8946 (2,91); 6,8224 (0,61); 6,8025 (0,49); 5,3124 (5,92); 5,0675 (0,41); 5,0511 (1,47); 5,0345 (1,48); 5,0181 (0,41); 3,3657 (19,18); 3,0017 (16,00); 2,5578 (0,36); 2,5303 (0,59); 2,5168 (11,86); 2,5124 (24,30); 2,5080 (32,65); 2,5035 (23,38); 2,4992 (11,02); 2,4580 (0,36); 2,3543 (9,77); 2,3350 (0,34); 1,9942 (0,85); 1,5485 (5,79); 1,5319 (5,78); 1,4177 (0,87); 1,4009 (0,86); 1,2493 (1,28); 1,1785 (0,47); 0,8785 (0,58); 0,8617 (1,87); 0,8441 (0,74)
Ejemplo 320, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,9991 (2,97); 7,8393 (4,30); 7,8291 (3,79); 7,7294 (2,72); 7,7165 (0,96); 7,7115 (3,51); 7,7078 (2,54); 7,5691 (0,50); 7,5659 (0,35); 7,5571 (0,41); 7,5508 (1,72); 7,5452 (0,57); 7,5358 (0,98); 7,5325 (1,49); 7,5293 (0,81); 7,5013 (2,52); 7,4857 (1,83); 7,4821 (3,24); 7,4683 (0,66); 7,4644 (1,42); 7,4613 (0,90); 7,1624 (1,29); 7,1518 (2,06); 7,1415 (1,28); 5,7665 (4,47); 5,3558 (6,58); 3,3905 (0,41); 3,3403 (28,15); 3,2898 (0,38); 3,0603 (16,00); 2,8748 (1,96); 2,8568 (3,37); 2,8386 (2,06); 2,5624 (0,42); 2,5580 (0,59); 2,5536 (0,45); 2,5300 (1,29); 2,5166 (15,51); 2,5122 (31,16); 2,5078 (41,93); 2,5033 (30,56); 2,4990 (15,36); 2,4668 (0,80); 2,4620 (0,80); 2,4574 (0,81); 2,4529 (0,60); 1,9948 (0,57); 1,5845 (0,44); 1,5670 (1,20); 1,5483 (1,96); 1,5426 (1,04); 1,5310 (1,48); 1,5112 (0,67); 1,4100 (0,35); 1,3916 (1,16); 1,3726 (1,78); 1,3536 (1,74); 1,3359 (1,04); 1,3178 (0,34); 1,1792 (0,32); 0,9091 (4,22); 0,9016 (0,56); 0,8908 (8,65); 0,8724 (3,76); 0,8626 (0,53)

Ejemplo 321, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5670 (0,86); 7,9540 (0,93); 7,7375 (2,93); 7,7337 (1,42); 7,7247 (0,85); 7,7198 (3,63); 7,7159 (2,53); 7,5663 (0,50); 7,5631 (0,32); 7,5548 (0,36); 7,5478 (1,81); 7,5421 (0,52); 7,5331 (0,98); 7,5298 (1,58); 7,5264 (0,80); 7,5034 (2,72); 7,5001 (1,16); 7,4881 (1,77); 7,4842 (3,37); 7,4708 (0,52); 7,4667 (1,29); 7,4633 (0,74); 7,3461 (4,72); 7,3312 (1,09); 7,3279 (0,56); 7,3102 (2,36); 7,3037 (0,33); 7,2889 (1,57); 7,0250 (3,80); 7,0214 (3,46); 7,0153 (1,44); 7,0057 (1,38); 7,0028 (0,89); 6,9097 (1,02); 6,9063 (1,14); 6,9017 (0,93); 6,8874 (1,05); 6,8824 (0,99); 5,3439 (6,21); 5,1257 (0,41); 5,1093 (1,54); 5,0928 (1,56); 5,0763 (0,42); 3,3415 (50,51); 3,0153 (16,00); 2,8911 (7,51); 2,7325 (6,13); 2,5269 (0,35); 2,5136 (7,04); 2,5091 (14,06); 2,5046 (18,55); 2,5000 (13,49); 2,4955 (6,47); 1,5507 (6,03); 1,5342 (5,92); -0,0002 (4,06)
Ejemplo 322, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7379 (2,94); 7,7200 (3,52); 7,7163 (2,56); 7,5694 (0,52); 7,5578 (0,44); 7,5510 (1,74); 7,5455 (0,60); 7,5361 (1,02); 7,5330 (1,53); 7,5064 (2,70); 7,4872 (3,32); 7,4736 (0,59); 7,4697 (1,24); 7,3255 (5,12); 7,3002 (1,89); 7,2954 (0,97); 7,2820 (4,64); 7,2606 (4,97); 7,2472 (0,96); 7,2425 (2,28); 6,9589 (1,11); 6,9404 (2,25); 6,9183 (5,27); 6,8990 (3,84); 6,8659 (3,36); 6,8462 (3,04); 5,7584 (1,12); 5,3394 (6,42); 4,8693 (0,96); 4,8533 (1,96); 4,8379 (0,96); 4,5790 (1,00); 4,5662 (1,20); 4,5616 (1,30); 4,5487 (1,00); 3,3932 (4,87); 3,2928 (2,26); 3,1888 (0,79); 3,0122 (16,00); 2,9105 (0,57); 2,8929 (1,41); 2,8748 (1,43); 2,8568 (0,56); 2,5111 (24,58); 2,5067 (32,65); 2,5024 (23,72); 1,9635 (0,42); 1,9451 (1,56); 1,9272 (2,16); 1,9105 (1,87); 1,8889 (1,18); 1,8759 (0,93); 1,8691 (1,52); 1,8572 (0,92); 1,8503 (1,66); 1,8322 (1,13); 1,8149 (0,58); 1,1116 (2,12); 1,0936 (4,34); 1,0754 (2,05); 1,0080 (4,98); 0,9896 (10,27); 0,9710 (4,87)
Ejemplo 323, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6044 (0,99); 10,4354 (1,93); 8,0787 (0,63); 8,0580 (0,75); 7,9790 (1,43); 7,9572 (2,24); 7,8334 (0,64); 7,8142 (0,90); 7,7970 (1,39); 7,7780 (1,69); 7,7576 (1,12); 7,7265 (3,64); 7,7135 (1,07); 7,7087 (4,56); 7,7050 (3,21); 7,5689 (0,38); 7,5658 (0,68); 7,5626 (0,43); 7,5539 (0,51); 7,5475 (2,35); 7,5418 (0,67); 7,5326 (1,26); 7,5293 (2,03); 7,5259 (1,02); 7,4989 (3,43); 7,4957 (1,48); 7,4834 (2,33); 7,4797 (4,36); 7,4661 (0,67); 7,4621 (1,68); 7,4589 (0,96); 7,1395 (0,90); 7,1202 (1,06); 7,1163 (1,76); 7,0977 (1,65); 6,1620 (2,27); 6,1552 (1,74); 6,1486 (1,15); 6,1410 (1,11); 5,8283 (1,01); 5,8213 (1,02); 5,8143 (0,95); 5,8072 (0,92); 5,3617 (7,82); 3,3316 (117,10); 3,3079 (1,30); 3,1502 (0,43); 3,1402 (0,78); 3,1296 (0,66); 3,1178 (0,78); 3,1077 (0,45); 3,0716 (16,00); 3,0612 (8,68); 2,9179 (0,75); 2,8908 (12,80); 2,8643 (1,07); 2,7320 (10,02); 2,7309 (9,50); 2,6718 (0,34); 2,5251 (1,02); 2,5202 (1,58); 2,5117 (20,05); 2,5072 (39,90); 2,5026 (52,31); 2,4980 (37,67); 2,4935 (17,75); 2,4637 (0,34); 2,4537 (0,38); 2,4430 (0,36); 2,4321 (0,34); 2,3294 (0,33); 1,8768 (0,37); 1,8476 (0,40); 1,8195 (0,41); 1,8102 (0,44); 1,7966 (0,50); 1,7909 (0,69); 1,7876 (0,62); 1,7818 (0,53); 1,7683 (0,48); 1,7591 (0,44); 1,6280 (0,52); 1,6081 (0,56); 1,4122 (0,47); 1,4063 (0,58); 1,4017 (0,54); 1,3956 (0,51); 1,3836 (0,42); 1,3778 (0,51); 1,3732 (0,47); 1,3672 (0,45); 1,3235 (0,41); 1,3186 (0,37); 1,3031 (1,18); 1,2983 (1,30); 1,2931 (0,81); 1,2835 (1,60); 1,2685 (0,70); 1,2634 (0,79); 1,2409 (0,35); 1,2349 (0,43); 1,2254 (0,47); 1,2056 (0,37); 0,0080 (0,34); -0,0002 (10,51)
Ejemplo 324, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
8,1893 (1,90); 8,1624 (2,14); 7,8514 (2,74); 7,7462 (1,30); 7,7201 (2,44); 7,6936 (1,39); 7,6449 (3,76); 7,6305 (2,84); 7,3211 (1,25); 7,2968 (3,76); 7,2671 (5,70); 7,2520 (6,74); 7,2466 (6,67); 7,2265 (4,57); 7,1382 (2,37); 7,1101 (4,43); 7,0754 (3,73); 7,0471 (2,34); 5,2736 (9,20); 3,0797 (16,00); 3,0368 (2,87); 2,7426 (2,75); 2,7168 (4,45); 2,6922 (2,18); 2,0047 (1,07); -0,0002 (1,49)
Ejemplo 325, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2707 (2,81); 7,8308 (0,57); 7,8098 (1,73); 7,7927 (2,57); 7,7903 (2,20); 7,7861 (2,23); 7,7689 (0,62); 7,7653 (0,39); 7,4220 (1,01); 7,4021 (2,17); 7,3820 (1,57); 7,3181 (8,50); 7,3071 (9,73); 7,2974 (0,48); 7,2844 (1,53); 7,2809 (1,28); 7,2673 (0,83); 7,2636 (1,20); 7,2614 (1,02); 7,2457 (1,76); 7,2391 (2,78); 7,2361 (2,05); 7,2272 (1,18); 7,2151 (0,58); 7,1442 (1,07); 7,1425 (1,11); 7,1379 (0,99); 7,1363 (0,95); 7,1237 (0,96); 7,1218 (0,93); 7,1173 (0,94); 7,1153 (0,89); 7,1100 (1,38); 7,1063 (1,37); 7,0932 (1,28); 7,0894 (1,28); 5,7672 (6,91); 5,3371 (5,77); 4,3097 (1,63); 4,2924 (3,64); 4,2752 (1,67); 3,7886 (16,00); 3,4026 (1,13); 3,3522 (124,45); 3,3013 (1,15); 3,0531 (14,26); 2,9572 (1,57); 2,9399 (3,30); 2,9227 (1,50); 2,5599 (0,39); 2,5322 (0,61); 2,5187 (13,05); 2,5143 (27,08); 2,5099 (36,73); 2,5054 (26,27); 2,5010 (12,20); 2,4589 (0,37); 1,9964 (0,46); 1,2499 (0,40); 0,8639 (0,57)
Ejemplo 326, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6240 (3,18); 7,6034 (3,68); 7,3073 (2,91); 7,2872 (2,56); 6,9984 (3,45); 6,6183 (3,43); 5,0954 (6,06); 4,0425 (0,33); 4,0247 (0,34); 3,4017 (1,53); 3,3515 (96,15); 3,3014 (1,20); 3,0355 (16,00); 2,5304 (0,36); 2,5256 (0,58); 2,5170 (6,14); 2,5125 (12,69); 2,5080 (17,18); 2,5035 (12,15); 2,4990 (5,59); 2,3549 (9,06); 1,9942 (1,50); 1,1971 (0,40); 1,1793 (0,82); 1,1615 (0,39)
Ejemplo 327, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7598 (2,34); 8,1621 (1,47); 8,1418 (1,74); 7,9523 (0,98); 7,9060 (1,29); 7,8865 (1,81); 7,8664 (1,19); 7,7321 (2,68); 7,7283 (1,36); 7,7194 (0,80); 7,7143 (3,48); 7,7106 (2,42); 7,5659 (0,50); 7,5540 (0,35); 7,5475 (1,69); 7,5418 (0,49); 7,5326 (0,92); 7,5293 (1,50); 7,5259 (0,79); 7,4993 (2,48); 7,4961 (1,07); 7,4839 (1,67); 7,4802 (3,16); 7,4666 (0,48); 7,4626 (1,25); 7,4593 (0,71); 7,2973 (2,07); 7,2141 (1,81); 7,1964 (2,13); 7,1806 (1,75); 7,1771 (1,76); 7,1659 (2,86); 7,1464 (0,75); 5,3763 (6,18); 3,3460 (124,75); 3,0868 (16,00); 3,0776 (0,82); 3,0723 (0,46); 2,8906 (7,90); 2,7321 (6,17); 2,7312 (6,26); 2,5257 (0,61); 2,5209 (0,95); 2,5124 (11,99); 2,5078 (24,04); 2,5032 (31,79); 2,4986 (23,03); 2,4941 (10,93); 2,3341 (9,59); 2,3055 (8,92); -0,0002 (7,13)
Ejemplo 328, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5372 (1,96); 8,1004 (1,32); 8,0797 (1,57); 7,8440 (1,17); 7,8248 (1,62); 7,8045 (1,12); 7,4238 (1,00); 7,4038 (2,12); 7,3837 (1,56); 7,2895 (1,00); 7,2872 (1,33); 7,2857 (1,36); 7,2834 (1,26); 7,2702 (0,77); 7,2662 (1,16); 7,2640 (0,97); 7,2452 (1,47); 7,2393 (1,90); 7,2352 (1,40); 7,1517 (1,79); 7,1472 (1,25); 7,1450 (1,25); 7,1406 (1,14); 7,1384 (1,23); 7,1345 (1,81); 7,1264 (1,04); 7,1243 (1,00); 7,1200 (0,96); 7,1179 (0,86); 5,7690 (1,09); 5,3659 (5,52); 3,7891 (16,00); 3,7678 (0,41); 3,7601 (0,43); 3,3995 (1,96); 3,3494 (140,76); 3,3261 (1,70); 3,2996 (2,16); 3,0471 (14,86); 2,6932 (0,51); 2,6836 (0,59); 2,6792 (0,72); 2,6624 (0,37); 2,5603 (0,44); 2,5326 (0,44); 2,5191 (12,00); 2,5147 (25,85); 2,5102 (36,06); 2,5057 (26,73); 2,5013 (13,49); 2,4697 (0,68); 2,4650 (0,73); 2,4604 (0,75); 2,4559 (0,56); 1,5933 (0,43); 1,5889 (0,37); 1,5792 (0,46); 1,5728 (0,51); 1,5673 (0,39); 1,5579 (0,53); 1,3672 (0,69); 1,3318 (0,38); 1,3200 (0,47); 1,3065 (0,70); 1,2871 (0,87); 1,2728 (1,30); 1,2621

(0,71); 1,2528 (1,16); 1,2374 (0,92); 1,2198 (0,48); 1,2125 (0,34); 1,0700 (5,63); 1,0530 (5,66); 0,8844 (2,63); 0,8665 (5,38); 0,8485 (2,16)

Ejemplo 329, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,9504 (2,41); 8,1344 (1,61); 8,1145 (1,96); 7,9535 (0,81); 7,9139 (1,31); 7,8946 (1,80); 7,8744 (1,20); 7,8248 (0,88); 7,8223 (1,15); 7,8187 (0,93); 7,8054 (1,03); 7,8017 (1,31); 7,7993 (1,00); 7,7325 (2,04); 7,7299 (2,67); 7,7261 (1,32); 7,7173 (0,87); 7,7122 (3,49); 7,7084 (2,44); 7,6280 (1,50); 7,6227 (1,93); 7,6180 (1,45); 7,5681 (0,33); 7,5652 (0,52); 7,5620 (0,35); 7,5532 (0,44); 7,5459 (2,53); 7,5413 (0,65); 7,5319 (1,02); 7,5283 (1,87); 7,5252 (3,14); 7,5053 (1,57); 7,4975 (2,43); 7,4941 (1,07); 7,4821 (1,69); 7,4784 (3,11); 7,4648 (0,56); 7,4607 (1,40); 7,4577 (1,09); 7,4524 (1,98); 7,4471 (0,73); 7,4397 (0,59); 7,4338 (2,83); 7,4310 (2,69); 7,4252 (0,43); 7,4173 (0,96); 7,4123 (2,43); 7,2653 (1,04); 7,2632 (1,12); 7,2590 (1,03); 7,2570 (1,01); 7,2449 (0,94); 7,2428 (0,94); 7,2386 (0,96); 7,2365 (0,90); 7,2256 (1,85); 7,2072 (2,89); 7,1887 (1,90); 7,1728 (0,47); 7,1702 (0,82); 7,1676 (0,47); 7,0967 (2,58); 7,0940 (3,16); 7,0887 (0,87); 7,0797 (0,94); 7,0775 (1,54); 7,0749 (2,73); 7,0726 (2,29); 7,0661 (0,33); 5,4049 (5,99); 3,3296 (62,97); 3,0799 (0,33); 3,0675 (16,00); 2,8906 (6,62); 2,7320 (5,17); 2,7311 (5,11); 2,5251 (0,76); 2,5202 (1,21); 2,5118 (13,85); 2,5073 (27,56); 2,5027 (36,33); 2,4980 (26,37); 2,4935 (12,57); 1,2898 (0,51); 0,0079 (0,34); -0,0002 (9,72)

Ejemplo 331, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,0401 (2,57); 8,1582 (0,66); 8,1381 (0,77); 7,9294 (1,25); 7,9093 (3,59); 7,8888 (3,02); 7,7294 (2,91); 7,7115 (3,66); 7,7079 (2,66); 7,5630 (0,53); 7,5599 (0,34); 7,5511 (0,42); 7,5447 (1,75); 7,5390 (0,56); 7,5295 (1,03); 7,5264 (1,53); 7,5231 (0,82); 7,4958 (2,72); 7,4925 (1,51); 7,4766 (3,79); 7,4733 (2,64); 7,4625 (2,88); 7,4558 (4,95); 7,4439 (0,57); 7,2371 (1,95); 7,2265 (1,08); 7,2191 (2,64); 7,2111 (1,03); 7,2067 (1,10); 7,2040 (0,98); 7,1992 (0,81); 7,1916 (0,81); 7,1840 (0,73); 5,3767 (5,29); 3,3329 (31,64); 3,3266 (39,78); 3,0858 (16,00); 2,8898 (1,00); 2,7302 (0,83); 2,5237 (1,02); 2,5102 (18,01); 2,5060 (33,96); 2,5015 (43,58); 2,4970 (31,82); 2,4926 (15,48); 0,0079 (0,55); -0,0002 (13,09); -0,0085 (0,46)

Ejemplo 332, Disolvente: DMSO, Espectrómetro: 399,95 MHz

11,1771 (2,60); 8,1574 (0,59); 8,1376 (0,68); 7,9524 (1,45); 7,9370 (1,28); 7,9174 (1,90); 7,8975 (1,13); 7,7298 (3,63); 7,7255 (5,59); 7,7129 (0,96); 7,7078 (3,66); 7,7042 (2,65); 7,6147 (2,05); 7,5941 (3,25); 7,5646 (0,56); 7,5526 (0,41); 7,5463 (1,80); 7,5407 (0,60); 7,5305 (3,04); 7,5283 (2,43); 7,5255 (2,83); 7,5099 (1,44); 7,5048 (1,56); 7,4967 (2,71); 7,4810 (1,91); 7,4774 (3,38); 7,4638 (0,56); 7,4598 (1,29); 7,4568 (0,80); 7,2497 (1,89); 7,2311 (1,80); 5,3772 (4,44); 3,3362 (67,00); 3,3337 (97,23); 3,0721 (16,00); 2,8904 (10,48); 2,7309 (8,65); 2,5248 (0,74); 2,5114 (14,81); 2,5071 (29,40); 2,5025 (38,83); 2,4980 (28,68); 2,4936 (14,10); -0,0002 (4,73)

Ejemplo 333, Disolvente: DMSO, Espectrómetro: 300,16 MHz

9,8162 (1,07); 7,7866 (0,39); 7,7457 (0,73); 7,7216 (1,07); 7,7077 (3,99); 7,6938 (0,53); 7,6806 (0,38); 7,4843 (1,39); 7,4549 (1,52); 7,1399 (0,67); 7,1177 (0,73); 7,0930 (0,35); 7,0560 (7,69); 6,9663 (1,52); 6,9368 (1,35); 5,3862 (0,48); 5,1534 (2,18); 4,0814 (0,50); 4,0577 (1,53); 4,0339 (1,56); 4,0103 (0,53); 3,8358 (1,09); 3,7949 (0,46); 3,7814 (5,68); 2,5266 (1,11); 2,5211 (1,47); 2,5156 (1,09); 2,0068 (6,43); 1,4777 (16,00); 1,2146 (1,68); 1,1909 (3,31); 1,1672 (1,64)

Ejemplo 334, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5735 (2,04); 8,0370 (0,83); 8,0163 (1,06); 7,9528 (0,46); 7,8839 (1,29); 7,8647 (1,75); 7,8444 (1,10); 7,7311 (1,91); 7,7284 (2,51); 7,7246 (1,20); 7,7159 (0,74); 7,7107 (3,37); 7,7070 (2,34); 7,5670 (0,48); 7,5551 (0,34); 7,5488 (1,60); 7,5430 (0,47); 7,5338 (0,85); 7,5304 (1,40); 7,5270 (0,69); 7,4991 (2,30); 7,4956 (0,97); 7,4837 (1,59); 7,4800 (3,00); 7,4664 (0,46); 7,4623 (1,22); 7,4591 (0,67); 7,2044 (1,70); 7,1861 (1,78); 7,1704 (1,78); 7,1497 (1,05); 6,7869 (3,05); 6,7701 (1,09); 6,7687 (1,09); 6,7526 (0,84); 6,7489 (0,89); 6,7449 (0,60); 6,7315 (0,85); 6,7251 (0,69); 5,3834 (5,94); 4,7651 (6,17); 3,3380 (87,86); 3,0675 (16,00); 2,8905 (3,90); 2,7320 (3,13); 2,7309 (2,98); 2,5254 (0,60); 2,5206 (0,95); 2,5120 (11,85); 2,5075 (23,70); 2,5029 (31,15); 2,4983 (22,41); 2,4937 (10,52); 2,2718 (9,63); -0,0002 (1,06)

Ejemplo 335, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,8446 (1,99); 8,0209 (0,87); 8,0003 (1,08); 7,9528 (1,10); 7,8447 (1,33); 7,8255 (1,79); 7,8052 (1,17); 7,7315 (2,67); 7,7275 (1,28); 7,7186 (0,82); 7,7136 (3,47); 7,7098 (2,40); 7,6157 (1,48); 7,6129 (1,48); 7,5958 (1,67); 7,5929 (1,61); 7,5688 (0,49); 7,5570 (0,35); 7,5504 (1,67); 7,5448 (0,49); 7,5356 (0,89); 7,5323 (1,44); 7,5290 (0,73); 7,5017 (2,41); 7,4984 (1,04); 7,4862 (1,66); 7,4825 (3,09); 7,4689 (0,49); 7,4648 (1,21); 7,4617 (0,68); 7,4224 (0,86); 7,4180 (0,95); 7,4034 (1,69); 7,3990 (1,61); 7,3695 (0,98); 7,3666 (0,97); 7,3511 (1,61); 7,3481 (1,51); 7,3324 (0,74); 7,3294 (0,69); 7,2373 (0,91); 7,2327 (0,91); 7,2178 (1,21); 7,2135 (1,15); 7,1990 (0,69); 7,1945 (0,62); 7,1670 (1,82); 7,1491 (1,74); 5,3809 (6,19); 3,9370 (5,68); 3,3354 (140,14); 3,3090 (0,35); 3,0674 (16,00); 2,8904 (9,16); 2,7313 (7,18); 2,5251 (0,83); 2,5201 (1,35); 2,5117 (15,68); 2,5072 (30,91); 2,5026 (40,50); 2,4980 (29,29); 2,4935 (13,85); -0,0002 (3,42)

Ejemplo 336, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,4786 (2,21); 7,9529 (1,52); 7,7420 (3,01); 7,7242 (3,76); 7,7204 (2,69); 7,5661 (0,54); 7,5629 (0,38); 7,5547 (0,48); 7,5478 (1,81); 7,5419 (0,65); 7,5330 (1,19); 7,5297 (1,68); 7,5263 (0,91); 7,5052 (2,78); 7,4900 (2,12); 7,4862 (3,46); 7,4726 (0,75); 7,4686 (1,41); 7,4651 (0,85); 7,3748 (2,53); 7,3540 (4,70); 7,2546 (0,81); 7,2351 (1,91); 7,2324 (1,87); 7,2090 (2,85); 7,1895 (1,17); 5,3579 (6,69); 3,3459 (152,72); 3,0510 (16,00); 2,8913 (11,04); 2,7325 (9,33); 2,5123 (16,67); 2,5080 (29,40); 2,5035 (36,54); 2,4990 (26,79); 2,4947 (13,64); 2,3392 (10,84); 2,3099 (10,35); -0,0002 (2,20)

Ejemplo 337, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,1862 (2,95); 7,9534 (0,44); 7,8307 (0,54); 7,8097 (2,03); 7,7940 (4,41); 7,7908 (3,18); 7,7744 (0,63); 7,7236 (2,85); 7,7058 (3,61); 7,7022 (2,59); 7,5629 (0,52); 7,5598 (0,34); 7,5510 (0,40); 7,5446 (1,72); 7,5390 (0,54); 7,5295 (1,01); 7,5264 (1,50); 7,5231 (0,80); 7,4960 (2,59); 7,4802 (1,94); 7,4769 (3,32); 7,4630 (0,58); 7,4592 (1,29); 7,4561 (0,78); 7,1029 (1,46); 7,0983 (1,45); 7,0869 (1,36); 7,0823 (1,38); 5,3351 (6,99); 3,9970 (0,94); 3,9821 (0,97); 3,9705 (1,49); 3,9556 (1,54); 3,8991 (1,51); 3,8821 (1,50); 3,8727 (0,96); 3,8555 (0,95); 3,3407 (108,77); 3,0658 (16,00); 2,8913 (3,20); 2,7327 (2,69); 2,7319 (2,63); 2,5258 (0,67); 2,5124 (11,47); 2,5082 (21,72); 2,5037 (27,88); 2,4992 (20,48); 2,4948 (10,09); 1,8031 (0,35); 1,7862 (0,53); 1,7707 (0,54); 1,7555 (0,38); 1,3887 (0,65); 1,3765 (1,06); 1,3689 (1,10); 1,3600 (1,18); 1,3549 (0,95); 1,3473 (0,96); 1,3411 (0,84); 1,3345 (0,66); 1,3259 (0,53); 1,3165 (0,44); 1,3110 (0,38); 1,3081 (0,37); 1,2857 (0,50); 1,2815 (0,60);

1,2746 (0,44); 1,2636 (0,60); 1,2456 (0,39); 1,2348 (0,43); 1,1501 (0,42); 1,1284 (0,70); 1,1131 (0,48); 1,1082 (0,69); 1,0886 (0,35); 0,9151 (7,35); 0,8982 (7,21); 0,8915 (3,49); 0,8735 (5,28); 0,8561 (2,17); -0,0002 (1,69)
Ejemplo 338, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5513 (1,17); 7,6263 (1,09); 7,6205 (1,13); 7,6179 (1,06); 7,6144 (1,30); 7,6111 (0,95); 7,6054 (0,98); 7,5949 (3,13); 7,5701 (0,78); 7,5561 (0,92); 7,5500 (1,21); 7,5357 (1,22); 7,5307 (0,75); 7,5149 (0,53); 7,4333 (0,56); 7,4307 (0,65); 7,4271 (0,60); 7,4245 (0,57); 7,4095 (1,05); 7,4052 (0,93); 7,3912 (0,51); 7,3881 (0,52); 7,3824 (0,41); 7,3566 (4,83); 7,3044 (1,84); 7,2858 (2,87); 7,2829 (2,93); 7,2643 (2,36); 6,9620 (1,09); 6,9437 (1,94); 6,9250 (1,40); 6,9166 (3,31); 6,8969 (2,97); 5,3601 (6,34); 5,0709 (0,44); 5,0545 (1,58); 5,0379 (1,60); 5,0215 (0,46); 3,3929 (2,83); 3,3899 (2,70); 3,3520 (253,47); 3,3140 (2,34); 3,3114 (2,50); 3,0141 (16,00); 2,5491 (0,83); 2,5451 (0,86); 2,5302 (1,04); 2,5166 (19,07); 2,5124 (38,30); 2,5080 (51,33); 2,5036 (37,65); 2,4711 (0,82); 2,4670 (0,79); 2,3348 (0,32); 1,9940 (1,18); 1,5532 (6,01); 1,5367 (6,00); 1,2496 (0,83); 1,1969 (0,34); 1,1791 (0,64); 0,8790 (0,36); 0,8623 (1,06); 0,8446 (0,43)
Ejemplo 339, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7047 (1,36); 9,3587 (0,63); 7,6178 (3,59); 7,5972 (4,11); 7,3051 (3,39); 7,2849 (3,06); 7,2361 (4,24); 7,0024 (0,53); 6,9802 (1,03); 6,9581 (0,62); 6,7544 (0,67); 6,7430 (0,69); 6,7373 (0,37); 6,7318 (0,56); 6,7204 (0,53); 5,7642 (5,42); 5,2561 (6,14); 4,7129 (0,43); 4,6996 (0,53); 4,6901 (0,80); 4,6805 (0,61); 4,6677 (0,42); 3,3989 (0,92); 3,3491 (61,31); 3,2987 (1,04); 3,2816 (0,37); 3,0239 (16,00); 2,5579 (0,41); 2,5534 (0,34); 2,5167 (11,74); 2,5124 (23,24); 2,5080 (31,00); 2,5035 (22,77); 2,4993 (11,62); 2,4669 (0,67); 2,4622 (0,71); 2,4576 (0,72); 2,3524 (10,31); 1,9943 (0,57); 1,9148 (0,85); 1,8958 (0,91); 1,8832 (1,04); 1,8713 (1,12); 1,8640 (1,12); 1,7223 (0,91); 1,7130 (0,98); 1,7003 (1,04); 1,6924 (1,00); 1,5303 (0,48); 1,5199 (0,51); 1,5002 (0,57); 1,4660 (0,54); 1,4594 (0,44); 1,4340 (1,01); 1,4095 (1,30); 1,3838 (1,40); 1,3571 (1,24); 1,3311 (0,97); 1,3251 (1,05); 1,3055 (0,47); 1,2982 (0,56); 1,2685 (0,47); 1,2593 (0,41); 1,2389 (0,78); 1,2120 (0,47); 1,1969 (0,39); 1,1791 (0,45)
Ejemplo 340, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5036 (1,94); 8,0858 (1,31); 8,0652 (1,55); 7,8345 (1,28); 7,8151 (1,77); 7,7949 (1,20); 7,7260 (2,01); 7,7236 (2,59); 7,7197 (1,30); 7,7108 (0,81); 7,7057 (3,49); 7,7019 (2,40); 7,5644 (0,49); 7,5525 (0,37); 7,5461 (1,64); 7,5404 (0,49); 7,5311 (0,88); 7,5278 (1,42); 7,5245 (0,73); 7,4967 (2,43); 7,4933 (1,06); 7,4813 (1,66); 7,4776 (3,09); 7,4640 (0,48); 7,4599 (1,23); 7,4567 (0,68); 7,1437 (1,77); 7,1261 (1,72); 5,3567 (6,33); 3,3291 (56,94); 3,0541 (16,00); 2,8910 (2,50); 2,7322 (1,97); 2,5254 (0,55); 2,5120 (11,03); 2,5075 (21,92); 2,5029 (28,90); 2,4983 (21,10); 2,4938 (10,12); 2,2770 (3,50); 2,2591 (4,27); 2,0961 (0,39); 2,0792 (0,72); 2,0623 (0,85); 2,0452 (0,66); 2,0279 (0,33); 0,9218 (14,86); 0,9052 (14,47); 0,8759 (0,48); -0,0002 (5,49)
Ejemplo 341, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7964 (1,97); 8,0347 (1,30); 8,0140 (1,60); 7,9532 (0,78); 7,8342 (1,32); 7,8150 (1,85); 7,7947 (1,20); 7,7226 (2,72); 7,7187 (1,40); 7,7097 (0,90); 7,7047 (3,49); 7,7010 (2,45); 7,5644 (0,52); 7,5613 (0,36); 7,5524 (0,39); 7,5460 (1,75); 7,5404 (0,59); 7,5311 (0,99); 7,5278 (1,53); 7,5244 (0,86); 7,4962 (2,57); 7,4930 (1,19); 7,4807 (1,81); 7,4770 (3,25); 7,4634 (0,56); 7,4593 (1,32); 7,4562 (0,78); 7,3568 (0,70); 7,3519 (1,12); 7,3465 (0,58); 7,3357 (4,33); 7,3312 (6,36); 7,3133 (3,71); 7,3088 (1,21); 7,2984 (0,72); 7,2939 (1,35); 7,2627 (0,47); 7,2586 (0,87); 7,2539 (1,12); 7,2487 (0,64); 7,2437 (0,69); 7,2370 (1,15); 7,2302 (0,38); 7,2245 (0,35); 7,2202 (0,50); 7,1578 (1,86); 7,1399 (1,81); 5,3691 (6,42); 3,7173 (6,49); 3,5605 (0,68); 3,3349 (84,22); 3,2182 (0,39); 3,0879 (0,37); 3,0505 (16,00); 3,0168 (0,34); 2,8902 (5,85); 2,7315 (4,65); 2,5252 (0,64); 2,5118 (13,25); 2,5074 (26,44); 2,5028 (34,90); 2,4982 (25,49); 2,4937 (12,32); 1,2348 (0,41); -0,0002 (8,23)
Ejemplo 342, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,4822 (4,13); 7,8668 (0,86); 7,8466 (2,31); 7,8282 (2,23); 7,8111 (3,59); 7,7906 (1,43); 7,7318 (4,01); 7,7129 (4,58); 7,5700 (0,66); 7,5519 (2,01); 7,5335 (1,91); 7,5035 (3,37); 7,4843 (4,28); 7,4660 (1,59); 7,1433 (2,51); 7,1258 (2,41); 5,7680 (0,34); 5,3517 (8,92); 4,7808 (6,78); 4,7769 (7,14); 3,5835 (3,23); 3,3459 (39,30); 3,0750 (16,00); 2,5109 (30,31); 1,9974 (0,61); 1,2506 (1,30); 1,1818 (0,33); 0,8802 (0,47); 0,8650 (1,04); 0,8478 (0,49)
Ejemplo 343, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3290 (2,95); 7,8459 (0,69); 7,8250 (1,97); 7,8078 (2,49); 7,8025 (2,32); 7,7990 (2,59); 7,7816 (0,86); 7,7780 (0,57); 7,5391 (2,24); 7,5239 (0,69); 7,5151 (1,06); 7,5118 (1,10); 7,5063 (0,62); 7,5024 (0,90); 7,4979 (0,68); 7,3894 (0,41); 7,3699 (2,39); 7,3643 (1,61); 7,3582 (3,22); 7,3558 (3,08); 7,1130 (1,48); 7,1096 (1,50); 7,0959 (1,43); 7,0925 (1,38); 5,7689 (2,85); 5,3584 (0,35); 5,3325 (6,35); 4,1952 (2,12); 4,1785 (4,56); 4,1618 (2,09); 3,3706 (1,83); 3,3438 (51,96); 3,3167 (1,57); 3,0893 (0,64); 3,0769 (0,49); 3,0625 (16,00); 3,0354 (0,54); 2,9238 (1,38); 2,9172 (3,15); 2,9106 (1,46); 2,5792 (1,30); 2,5725 (1,38); 2,5625 (2,74); 2,5558 (2,68); 2,5456 (2,18); 2,5380 (3,34); 2,5326 (3,29); 2,5278 (3,13); 2,5187 (19,36); 2,5143 (38,86); 2,5099 (52,05); 2,5054 (37,06); 2,5010 (17,23); 2,4865 (2,10); 2,4827 (2,22); 2,3644 (0,57); 2,3383 (10,64); 2,3121 (0,49); 1,9970 (0,58)
Ejemplo 344, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7868 (2,09); 8,1713 (1,58); 8,1514 (1,87); 7,9532 (0,61); 7,9195 (1,28); 7,9001 (1,74); 7,8799 (1,20); 7,8640 (1,84); 7,8250 (0,59); 7,8210 (0,85); 7,8161 (0,47); 7,8139 (0,42); 7,8089 (0,71); 7,8046 (0,99); 7,7995 (0,54); 7,7405 (1,85); 7,7379 (2,49); 7,7340 (1,17); 7,7254 (0,73); 7,7202 (3,32); 7,7164 (2,24); 7,5674 (0,47); 7,5556 (0,34); 7,5490 (1,58); 7,5433 (0,46); 7,5342 (0,84); 7,5308 (1,39); 7,5274 (0,69); 7,5011 (2,32); 7,4977 (0,95); 7,4859 (1,53); 7,4820 (2,96); 7,4685 (0,45); 7,4644 (1,19); 7,4611 (0,64); 7,4030 (3,39); 7,3871 (1,65); 7,3683 (0,40); 7,2243 (1,73); 7,2067 (1,66); 5,4161 (6,03); 3,3297 (54,18); 3,0852 (16,00); 2,8903 (5,08); 2,7319 (3,93); 2,7309 (4,00); 2,5249 (0,63); 2,5201 (0,99); 2,5115 (11,45); 2,5070 (22,78); 2,5024 (29,99); 2,4978 (21,53); 2,4932 (10,10); 2,3876 (10,11); -0,0002 (1,26)
Ejemplo 345, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4697 (2,08); 8,1064 (1,50); 8,0868 (1,86); 7,9533 (0,64); 7,8958 (1,24); 7,8765 (1,68); 7,8563 (1,12); 7,7348 (1,87); 7,7321 (2,43); 7,7281 (1,15); 7,7195 (0,73); 7,7144 (3,31); 7,7106 (2,26); 7,5668 (0,47); 7,5549 (0,34); 7,5485 (1,59); 7,5427 (0,51); 7,5323 (2,61); 7,5310 (2,82); 7,5237 (2,16); 7,4998 (2,27); 7,4963 (0,95); 7,4846 (1,53); 7,4807 (2,93); 7,4672 (0,44); 7,4631 (1,20); 7,4598 (0,64); 7,1991 (1,65); 7,1980 (1,66); 7,1806 (1,63); 6,3325 (1,53); 6,3301 (1,53); 6,3240 (1,54); 6,3216 (1,45); 5,4021 (5,83); 3,3378 (106,36); 3,3155 (0,35); 3,0735 (16,00);

2,8911 (5,51); 2,7324 (4,38); 2,7312 (4,18); 2,5258 (0,64); 2,5210 (0,99); 2,5124 (11,87); 2,5079 (23,75); 2,5033 (31,29); 2,4986 (22,51); 2,4941 (10,49); 2,3698 (8,46); -0,0002 (3,20)
Ejemplo 346, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5880 (2,15); 8,0620 (1,14); 8,0412 (1,37); 7,9531 (0,72); 7,8386 (1,27); 7,8192 (1,77); 7,7990 (1,15); 7,7201 (2,60); 7,7164 (1,25); 7,7075 (0,79); 7,7024 (3,39); 7,6987 (2,36); 7,5642 (0,48); 7,5522 (0,35); 7,5458 (1,63); 7,5402 (0,48); 7,5308 (0,86); 7,5276 (1,41); 7,5242 (0,72); 7,4959 (2,41); 7,4926 (1,02); 7,4804 (1,67); 7,4767 (3,09); 7,4631 (0,49); 7,4591 (1,22); 7,4559 (0,70); 7,3427 (2,55); 7,3377 (0,98); 7,3267 (1,32); 7,3214 (5,36); 7,3158 (0,80); 7,2799 (4,54); 7,2748 (1,20); 7,2635 (0,97); 7,2586 (2,31); 7,1451 (1,80); 7,1272 (1,72); 5,3493 (6,15); 3,3324 (100,44); 3,0448 (16,00); 2,9063 (1,07); 2,8903 (7,38); 2,8683 (1,61); 2,7319 (4,73); 2,7310 (4,74); 2,7178 (1,73); 2,6980 (2,37); 2,6797 (1,18); 2,6720 (0,37); 2,5251 (0,80); 2,5117 (14,73); 2,5073 (29,28); 2,5027 (38,54); 2,4981 (27,95); 2,4936 (13,25); -0,0002 (6,71)
Ejemplo 347, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,6002 (3,59); 8,0852 (1,89); 8,0645 (2,24); 7,8484 (1,48); 7,8288 (2,54); 7,8089 (1,33); 7,7306 (3,99); 7,7117 (4,54); 7,5715 (0,67); 7,5536 (2,01); 7,5355 (1,89); 7,5043 (3,34); 7,4851 (4,28); 7,4668 (1,60); 7,3025 (1,13); 7,2837 (3,96); 7,2569 (6,77); 7,2397 (2,08); 7,1962 (1,30); 7,1790 (1,87); 7,1537 (2,83); 7,1350 (2,53); 5,3585 (8,79); 4,0629 (0,89); 4,0452 (2,68); 4,0274 (2,71); 4,0095 (0,92); 3,3444 (33,26); 3,0515 (16,00); 2,9208 (1,78); 2,9022 (3,80); 2,8826 (2,74); 2,7336 (2,73); 2,7137 (3,81); 2,6952 (1,83); 2,5108 (27,61); 1,9971 (10,87); 1,1994 (2,84); 1,1816 (5,58); 1,1639 (2,80)
Ejemplo 348, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,1340 (1,33); 8,0098 (0,92); 7,9897 (1,70); 7,9704 (1,43); 7,8942 (1,77); 7,8742 (1,25); 7,7286 (1,89); 7,7260 (2,42); 7,7221 (1,15); 7,7133 (0,75); 7,7082 (3,32); 7,7045 (2,30); 7,5683 (0,49); 7,5562 (0,35); 7,5500 (1,57); 7,5444 (0,46); 7,5350 (0,82); 7,5316 (1,36); 7,5283 (0,67); 7,4979 (2,26); 7,4943 (0,94); 7,4824 (1,60); 7,4787 (2,99); 7,4650 (0,46); 7,4609 (1,22); 7,4578 (0,67); 7,3792 (1,59); 7,3606 (1,55); 5,4394 (5,96); 3,3379 (128,50); 3,0662 (16,00); 2,8915 (2,29); 2,7327 (1,82); 2,7315 (1,75); 2,5259 (0,67); 2,5212 (1,10); 2,5126 (13,63); 2,5081 (27,26); 2,5034 (35,89); 2,4988 (25,83); 2,4943 (12,10); -0,0002 (7,61)
Ejemplo 349, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2543 (2,68); 7,9532 (0,70); 7,8227 (0,67); 7,8017 (1,71); 7,7843 (2,07); 7,7746 (1,94); 7,7716 (2,20); 7,7538 (0,80); 7,7506 (0,60); 7,7248 (1,94); 7,7223 (2,60); 7,7185 (1,26); 7,7097 (0,79); 7,7046 (3,41); 7,7008 (2,38); 7,5633 (0,50); 7,5514 (0,38); 7,5449 (1,63); 7,5392 (0,50); 7,5300 (0,88); 7,5267 (1,42); 7,5233 (0,73); 7,4959 (2,39); 7,4925 (1,02); 7,4805 (1,63); 7,4768 (3,06); 7,4632 (0,48); 7,4591 (1,22); 7,4559 (0,69); 7,3997 (0,43); 7,3784 (0,92); 7,3728 (0,59); 7,3708 (0,47); 7,3646 (0,39); 7,3502 (11,60); 7,3482 (10,51); 7,3394 (0,61); 7,3357 (0,98); 7,3248 (0,51); 7,3145 (0,42); 7,2606 (1,89); 7,2443 (2,11); 7,1051 (1,44); 7,1020 (1,46); 7,0877 (1,40); 7,0846 (1,37); 5,3312 (6,08); 4,4282 (0,33); 4,4117 (0,75); 4,3952 (0,34); 4,2926 (1,54); 4,2759 (3,53); 4,2592 (1,60); 3,3372 (126,35); 3,0610 (16,00); 2,9947 (0,56); 2,9453 (1,49); 2,9287 (3,14); 2,9120 (1,42); 2,8908 (5,74); 2,7323 (4,49); 2,7313 (4,48); 2,5256 (0,73); 2,5208 (1,20); 2,5123 (13,89); 2,5078 (27,62); 2,5032 (36,45); 2,4986 (26,54); 2,4940 (12,71); -0,0002 (3,57)
Ejemplo 350, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1864 (3,02); 7,9534 (0,57); 7,8312 (0,56); 7,8101 (2,19); 7,7945 (4,46); 7,7756 (0,82); 7,7707 (0,43); 7,7238 (2,98); 7,7058 (3,78); 7,7021 (2,84); 7,5630 (0,54); 7,5600 (0,40); 7,5510 (0,49); 7,5446 (1,81); 7,5389 (0,75); 7,5296 (1,11); 7,5265 (1,59); 7,4962 (2,76); 7,4805 (2,13); 7,4770 (3,51); 7,4634 (0,83); 7,4593 (1,45); 7,1028 (1,50); 7,0980 (1,55); 7,0870 (1,47); 7,0822 (1,53); 5,3350 (7,21); 4,0014 (0,95); 3,9861 (1,00); 3,9749 (1,68); 3,9595 (1,75); 3,9165 (1,66); 3,8997 (1,68); 3,8900 (1,07); 3,8731 (1,01); 3,3788 (0,32); 3,3388 (105,68); 3,0660 (16,00); 2,8913 (4,01); 2,8852 (0,59); 2,7321 (3,34); 2,5122 (12,39); 2,5080 (23,10); 2,5035 (30,13); 2,4990 (23,51); 2,4948 (13,50); 1,7201 (0,47); 1,7041 (0,77); 1,6875 (0,83); 1,6713 (0,59); 1,4677 (0,46); 1,4535 (0,61); 1,4490 (0,57); 1,4345 (0,96); 1,4200 (0,66); 1,4154 (0,78); 1,4014 (0,58); 1,3968 (0,34); 1,2034 (0,60); 1,1845 (0,95); 1,1662 (0,81); 1,1507 (0,82); 1,1321 (0,54); 0,9153 (8,10); 0,9093 (2,02); 0,8987 (9,35); 0,8827 (8,44); 0,8640 (3,59); -0,0002 (2,41)
Ejemplo 351, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9367 (2,19); 7,9094 (2,80); 7,7273 (1,51); 7,7010 (2,68); 7,6738 (3,71); 7,6503 (4,21); 7,6298 (2,91); 7,3598 (3,09); 7,2657 (3,71); 7,1381 (2,56); 7,1102 (4,82); 7,0824 (2,43); 7,0175 (2,74); 6,9931 (2,57); 5,2887 (10,20); 4,7665 (1,61); 3,1025 (16,00); 2,0103 (1,78); 1,9000 (2,89); 1,7612 (2,38); 1,7329 (2,66); 1,6600 (1,31); 1,5381 (2,17); 1,5043 (2,70); 1,4667 (2,95); 1,4382 (3,08); 1,4133 (2,78); 1,3737 (2,38); 1,3325 (1,78); 1,2914 (1,31); 1,2566 (1,36); -0,0002 (1,31)
Ejemplo 352, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,1247 (2,29); 8,2819 (3,02); 8,2767 (3,08); 8,1528 (1,61); 8,1327 (1,99); 7,9901 (1,54); 7,9848 (1,44); 7,9691 (1,89); 7,9638 (1,89); 7,9541 (0,84); 7,9401 (1,33); 7,9207 (1,83); 7,9005 (1,20); 7,8033 (3,39); 7,7823 (2,78); 7,7390 (1,93); 7,7366 (2,53); 7,7327 (1,21); 7,7239 (0,72); 7,7188 (3,37); 7,7150 (2,34); 7,5684 (0,48); 7,5566 (0,34); 7,5501 (1,65); 7,5444 (0,46); 7,5352 (0,85); 7,5318 (1,41); 7,5284 (0,70); 7,5017 (2,36); 7,4982 (0,97); 7,4863 (1,56); 7,4825 (3,06); 7,4690 (0,46); 7,4649 (1,22); 7,4616 (0,66); 7,2556 (1,79); 7,2375 (1,74); 5,4211 (6,09); 3,3313 (38,37); 3,0778 (16,00); 2,8913 (6,82); 2,7325 (5,36); 2,5261 (0,44); 2,5213 (0,70); 2,5127 (8,87); 2,5082 (17,81); 2,5036 (23,56); 2,4990 (16,98); 2,4944 (8,00); -0,0002 (0,96)
Ejemplo 353, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8641 (1,93); 7,8004 (0,48); 7,7793 (1,24); 7,7622 (1,72); 7,7578 (1,49); 7,7541 (1,65); 7,7368 (0,71); 7,7321 (1,59); 7,7293 (1,89); 7,7255 (0,93); 7,7166 (0,58); 7,7115 (2,42); 7,7078 (1,70); 7,5676 (0,35); 7,5493 (1,16); 7,5436 (0,35); 7,5344 (0,63); 7,5311 (1,03); 7,5276 (0,53); 7,5004 (1,70); 7,4971 (0,75); 7,4851 (1,17); 7,4813 (2,18); 7,4678 (0,35); 7,4637 (0,87); 7,4604 (0,50); 7,0788 (0,97); 7,0752 (0,98); 7,0619 (0,92); 7,0583 (0,92); 5,3244 (4,26); 3,3896 (0,47); 3,3397 (41,48); 3,2899 (0,41); 3,0675 (11,33); 2,5304 (0,45); 2,5256 (0,75); 2,5169 (8,87); 2,5124 (18,25); 2,5079 (24,61); 2,5034 (17,32); 2,4989 (7,90); 1,7635 (0,58); 1,7461 (0,73); 1,7234 (0,82); 1,4389 (16,00); 1,3560 (0,38); 1,3488 (0,38); 1,3420 (0,50); 1,3322 (0,55); 1,3257 (0,57); 1,3174 (0,75); 1,3034 (0,99); 1,2877 (0,84); 1,2722 (0,64); 1,2522 (0,34); 0,9024 (1,88); 0,8850 (3,91); 0,8671 (1,36)

Ejemplo 354, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,5870 (0,36); 7,5372 (1,48); 7,5179 (2,69); 7,4986 (1,54); 7,4596 (1,32); 7,4401 (2,73); 7,4203 (1,72); 7,2590 (2,93); 7,2373 (5,70); 7,1701 (2,39); 7,1499 (2,05); 6,6317 (2,81); 6,6140 (2,67); 6,5162 (2,85); 6,4956 (2,72); 6,3123 (0,60); 6,2567 (0,53); 5,8756 (0,50); 5,8170 (0,73); 5,7902 (0,56); 5,7836 (0,56); 5,7699 (0,56); 5,2813 (9,40); 3,8363 (16,00); 2,5626 (19,23)
Ejemplo 355, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5306 (2,21); 8,0790 (1,28); 8,0583 (1,51); 7,8391 (1,28); 7,8197 (1,77); 7,7996 (1,16); 7,5405 (2,15); 7,5254 (0,63); 7,5216 (0,55); 7,5165 (0,97); 7,5134 (0,96); 7,5083 (0,59); 7,5039 (0,86); 7,4994 (0,65); 7,3715 (2,45); 7,3666 (1,59); 7,3602 (3,09); 7,3577 (3,11); 7,1366 (1,85); 7,1189 (1,73); 5,3526 (6,21); 3,3938 (0,48); 3,3440 (44,99); 3,2942 (0,40); 3,0464 (16,00); 2,5642 (0,42); 2,5597 (0,57); 2,5552 (0,45); 2,5322 (1,20); 2,5188 (17,84); 2,5144 (36,19); 2,5099 (48,86); 2,5055 (35,26); 2,5011 (16,57); 2,4647 (0,35); 2,4602 (0,45); 2,4556 (0,35); 2,3971 (1,70); 2,3787 (3,20); 2,3601 (1,92); 2,3385 (10,36); 1,6135 (0,39); 1,5951 (1,12); 1,5767 (1,56); 1,5588 (1,08); 1,5405 (0,36); 1,3257 (0,40); 1,3094 (0,87); 1,2930 (1,76); 1,2855 (2,58); 1,2781 (2,17); 1,2682 (1,76); 1,2583 (1,31); 1,2477 (0,78); 0,8868 (2,57); 0,8697 (6,50); 0,8520 (2,62)
Ejemplo 356, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4055 (0,86); 7,9526 (0,97); 7,7416 (1,96); 7,7391 (2,66); 7,7351 (1,30); 7,7266 (0,78); 7,7214 (3,44); 7,7176 (2,41); 7,5662 (0,47); 7,5548 (0,33); 7,5478 (1,66); 7,5420 (0,49); 7,5332 (0,91); 7,5298 (1,50); 7,5263 (0,75); 7,5042 (2,51); 7,5008 (1,08); 7,4892 (1,59); 7,4851 (3,10); 7,4718 (0,48); 7,4677 (1,21); 7,4641 (0,68); 7,3329 (4,75); 7,1872 (1,01); 7,1682 (1,82); 7,1475 (1,01); 6,7907 (3,25); 6,7723 (1,16); 6,7526 (0,88); 6,7489 (0,93); 6,7314 (0,91); 6,7253 (0,75); 5,3425 (5,89); 4,8140 (7,72); 3,3331 (69,47); 3,0202 (16,00); 2,8901 (8,02); 2,7316 (6,28); 2,7308 (6,36); 2,5248 (0,60); 2,5199 (0,94); 2,5114 (12,08); 2,5069 (24,17); 2,5023 (31,84); 2,4977 (23,01); 2,4932 (10,92); 2,2687 (10,20); -0,0002 (9,31)
Ejemplo 357, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8133 (2,49); 8,1659 (1,62); 8,1458 (1,95); 8,0943 (0,48); 8,0872 (3,90); 8,0821 (1,24); 8,0702 (1,31); 8,0650 (4,12); 8,0579 (0,47); 7,9137 (1,27); 7,8944 (1,78); 7,8742 (1,19); 7,7353 (2,62); 7,7315 (1,35); 7,7228 (0,88); 7,7176 (3,44); 7,7139 (2,43); 7,5662 (0,49); 7,5631 (0,33); 7,5544 (0,38); 7,5480 (1,68); 7,5423 (0,55); 7,5330 (0,92); 7,5297 (1,49); 7,5263 (0,79); 7,4998 (2,53); 7,4963 (1,37); 7,4893 (2,12); 7,4843 (2,40); 7,4807 (3,39); 7,4706 (3,07); 7,4679 (3,14); 7,4630 (1,77); 7,4599 (0,98); 7,4543 (1,00); 7,4493 (2,50); 7,4436 (0,39); 7,2677 (0,71); 7,2650 (1,21); 7,2624 (0,74); 7,2465 (1,90); 7,2306 (0,55); 7,2280 (0,91); 7,2253 (0,59); 7,2181 (1,82); 7,2002 (1,78); 7,1452 (2,67); 7,1424 (3,27); 7,1373 (1,02); 7,1260 (1,59); 7,1234 (2,80); 7,1211 (2,39); 7,0606 (0,63); 7,0533 (4,09); 7,0482 (1,25); 7,0413 (0,43); 7,0362 (1,26); 7,0311 (3,97); 7,0240 (0,40); 5,4142 (5,96); 3,3293 (61,05); 3,1567 (0,32); 3,0799 (16,00); 3,0545 (0,34); 2,8905 (0,51); 2,7320 (0,41); 2,7309 (0,41); 2,5250 (0,84); 2,5116 (14,83); 2,5071 (29,04); 2,5025 (37,92); 2,4979 (27,39); 2,4934 (12,99); 1,3070 (0,44); 0,8796 (0,73); 0,0080 (0,38); -0,0002 (9,88)
Ejemplo 358, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5367 (2,33); 8,0813 (1,35); 8,0606 (1,61); 7,8411 (1,25); 7,8216 (1,86); 7,8016 (1,16); 7,4233 (1,04); 7,4034 (2,27); 7,3833 (1,63); 7,2856 (1,58); 7,2660 (1,27); 7,2454 (1,65); 7,2397 (2,17); 7,2356 (1,50); 7,1459 (3,06); 7,1398 (1,36); 7,1265 (2,45); 7,1191 (1,10); 5,3603 (6,33); 3,7888 (16,00); 3,7596 (0,70); 3,3985 (0,35); 3,3486 (43,41); 3,2984 (0,45); 3,0441 (14,87); 2,5600 (0,36); 2,5319 (0,79); 2,5141 (28,51); 2,5097 (38,02); 2,5054 (27,97); 2,4638 (0,48); 2,4596 (0,54); 2,4055 (1,86); 2,3872 (3,47); 2,3686 (2,04); 1,5944 (0,48); 1,5762 (1,43); 1,5576 (2,01); 1,5390 (1,52); 1,5201 (0,60); 1,3663 (1,57); 1,3482 (0,34); 1,3296 (1,15); 1,3108 (1,88); 1,2920 (1,88); 1,2738 (1,12); 1,2556 (0,37); 0,9049 (4,05); 0,8867 (8,05); 0,8682 (3,41)
Ejemplo 359, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2837 (2,70); 7,9529 (0,61); 7,8240 (0,70); 7,8030 (1,72); 7,7855 (2,06); 7,7745 (1,96); 7,7717 (2,20); 7,7537 (0,82); 7,7508 (0,65); 7,7206 (2,64); 7,7168 (1,31); 7,7080 (0,83); 7,7029 (3,46); 7,6991 (2,45); 7,5630 (0,50); 7,5598 (0,32); 7,5511 (0,38); 7,5447 (1,65); 7,5390 (0,52); 7,5298 (0,90); 7,5265 (1,45); 7,5231 (0,76); 7,4955 (2,45); 7,4921 (1,09); 7,4800 (1,70); 7,4763 (3,15); 7,4627 (0,51); 7,4586 (1,25); 7,4555 (0,73); 7,4144 (1,30); 7,4101 (2,22); 7,4064 (1,41); 7,3538 (0,61); 7,3448 (0,32); 7,3383 (0,78); 7,3309 (1,48); 7,3162 (2,37); 7,2947 (2,87); 7,2931 (2,90); 7,2901 (3,18); 7,2784 (1,27); 7,2731 (1,52); 7,2677 (0,91); 7,2600 (1,27); 7,2437 (1,56); 7,1062 (1,48); 7,1034 (1,52); 7,0889 (1,49); 7,0859 (1,43); 5,3320 (6,22); 4,4341 (0,54); 4,3114 (1,59); 4,2948 (3,64); 4,2783 (1,67); 3,3484 (195,53); 3,0598 (16,00); 3,0114 (0,40); 2,9615 (1,41); 2,9449 (2,93); 2,9285 (1,37); 2,8911 (4,89); 2,7326 (3,85); 2,7316 (3,88); 2,5263 (0,82); 2,5129 (15,31); 2,5085 (30,23); 2,5039 (39,71); 2,4993 (28,97); 2,4947 (13,99); 1,2345 (0,38); -0,0002 (1,72)
Ejemplo 360, Disolvente: DMSO, Espectrómetro: 499,93 MHz
8,6977 (5,13); 7,6370 (4,31); 7,6207 (4,47); 7,4018 (4,84); 7,3731 (0,38); 7,3568 (0,34); 7,3117 (4,27); 7,2955 (3,73); 7,0151 (0,49); 6,6708 (0,35); 5,3552 (8,40); 5,3273 (0,42); 5,1904 (0,78); 3,8201 (0,43); 3,5097 (15,51); 3,3228 (20,07); 3,2996 (0,64); 3,2803 (0,69); 3,0748 (16,00); 3,0403 (0,51); 2,5163 (2,66); 2,5132 (3,23); 2,3805 (1,26); 2,3747 (1,77); 2,3602 (13,33); 1,9994 (0,39); 1,2548 (0,41); 0,8685 (0,45)
Ejemplo 361, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,8582 (0,57); 5,3915 (0,63); 4,1510 (0,45); 3,8436 (1,74); 3,4133 (16,00); 3,1114 (1,61); 2,9519 (0,35); 2,5740 (0,97); 2,5696 (2,00); 2,5650 (2,71); 2,5605 (1,91); 2,5561 (0,87); 0,9860 (0,43); 0,9676 (0,88); 0,9491 (0,36)
Ejemplo 362, Disolvente: DMSO, Espectrómetro: 300,16 MHz
10,5351 (2,08); 8,1083 (1,37); 8,0811 (1,69); 7,8613 (1,22); 7,8356 (1,74); 7,8086 (1,11); 7,4422 (0,88); 7,4159 (2,15); 7,3892 (1,62); 7,3001 (1,49); 7,2728 (1,17); 7,2575 (1,54); 7,2497 (1,95); 7,2442 (1,31); 7,1632 (2,71); 7,1541 (1,14); 7,1403 (1,87); 7,1269 (0,92); 5,7807 (0,43); 5,3737 (5,71); 3,8222 (0,34); 3,8008 (16,00); 3,7716 (0,49); 3,3520 (75,07); 3,0552 (14,49); 2,5332 (8,46); 2,5272 (17,99); 2,5212 (24,66); 2,5152 (17,79); 2,5093 (8,39); 2,2963 (3,23); 2,2725 (4,11); 2,1237 (0,35); 2,1014 (0,69); 2,0787 (0,80); 2,0562 (0,59); 1,3779 (0,98); 0,9412 (14,50); 0,9191 (14,05)

Ejemplo 363, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2058 (2,43); 7,8309 (0,51); 7,8099 (2,06); 7,7968 (2,75); 7,7941 (3,85); 7,7762 (0,59); 7,7248 (2,08); 7,7224 (2,63); 7,7185 (1,25); 7,7097 (0,84); 7,7046 (3,45); 7,7009 (2,35); 7,5621 (0,50); 7,5502 (0,39); 7,5438 (1,68); 7,5381 (0,49); 7,5289 (0,92); 7,5256 (1,45); 7,5221 (0,73); 7,4951 (2,45); 7,4917 (1,04); 7,4797 (1,71); 7,4760 (3,13); 7,4624 (0,50); 7,4583 (1,23); 7,4551 (0,68); 7,1052 (1,36); 7,1002 (1,37); 7,0896 (1,21); 7,0845 (1,27); 5,8636 (0,62); 5,8548 (0,33); 5,8378 (0,95); 5,8207 (0,99); 5,8117 (0,36); 5,8038 (0,36); 5,7949 (0,75); 5,7781 (0,35); 5,3311 (6,55); 5,1709 (0,49); 5,1670 (1,16); 5,1623 (1,23); 5,1584 (0,51); 5,1278 (0,45); 5,1239 (1,03); 5,1191 (1,09); 5,1153 (0,45); 5,0897 (0,60); 5,0870 (1,17); 5,0845 (0,98); 5,0821 (1,01); 5,0792 (0,49); 5,0641 (0,55); 5,0614 (1,08); 5,0589 (0,90); 5,0565 (0,94); 5,0536 (0,44); 4,1605 (2,18); 4,1436 (4,67); 4,1267 (2,22); 3,3294 (51,59); 3,0657 (16,00); 2,8907 (1,00); 2,7320 (0,79); 2,7311 (0,79); 2,5251 (0,60); 2,5118 (10,47); 2,5073 (20,50); 2,5027 (26,80); 2,4981 (19,33); 2,4936 (9,13); 2,4081 (0,71); 2,4050 (0,48); 2,3945 (1,33); 2,3913 (2,11); 2,3881 (1,33); 2,3777 (1,36); 2,3745 (2,08); 2,3712 (1,27); 2,3608 (0,50); 2,3576 (0,69); 0,9336 (0,63); -0,0002 (8,80)
Ejemplo 364, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,9348 (2,13); 8,1578 (1,55); 8,1380 (1,90); 8,1219 (1,89); 8,1165 (0,74); 8,1082 (2,06); 8,0996 (2,10); 8,0914 (0,76); 8,0859 (1,94); 7,9532 (0,70); 7,9258 (1,27); 7,9065 (1,73); 7,8863 (1,16); 7,7387 (1,86); 7,7360 (2,47); 7,7321 (1,19); 7,7234 (0,75); 7,7183 (3,30); 7,7145 (2,28); 7,5684 (0,47); 7,5566 (0,33); 7,5501 (1,60); 7,5444 (0,48); 7,5352 (0,87); 7,5319 (1,43); 7,5284 (0,73); 7,5021 (2,30); 7,4986 (1,02); 7,4868 (1,54); 7,4829 (3,00); 7,4694 (0,47); 7,4653 (1,23); 7,4620 (0,70); 7,3623 (2,08); 7,3570 (0,63); 7,3452 (0,74); 7,3401 (3,94); 7,3349 (0,72); 7,3232 (0,64); 7,3179 (1,93); 7,2351 (1,69); 7,2167 (1,66); 5,4185 (5,92); 3,3521 (65,03); 3,3478 (91,92); 3,0808 (16,00); 2,8914 (5,86); 2,7327 (4,71); 2,7318 (4,45); 2,5266 (0,55); 2,5219 (0,86); 2,5133 (11,02); 2,5088 (22,14); 2,5041 (29,22); 2,4995 (21,11); 2,4950 (9,92); -0,0002 (0,99)
Ejemplo 365, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,4916 (1,94); 8,0771 (1,31); 8,0565 (1,55); 7,9535 (0,37); 7,8305 (1,26); 7,8112 (1,74); 7,7909 (1,19); 7,7260 (1,96); 7,7235 (2,58); 7,7196 (1,29); 7,7109 (0,81); 7,7057 (3,49); 7,7020 (2,37); 7,5641 (0,49); 7,5522 (0,37); 7,5458 (1,63); 7,5401 (0,49); 7,5309 (0,87); 7,5275 (1,43); 7,5241 (0,72); 7,4964 (2,42); 7,4929 (1,04); 7,4810 (1,65); 7,4772 (3,08); 7,4637 (0,48); 7,4596 (1,24); 7,4564 (0,69); 7,1404 (1,74); 7,1230 (1,68); 5,3549 (6,16); 3,3289 (49,21); 3,0551 (16,00); 2,8908 (3,03); 2,7323 (2,37); 2,7312 (2,39); 2,5254 (0,56); 2,5205 (0,88); 2,5120 (10,34); 2,5075 (20,59); 2,5029 (27,23); 2,4983 (19,80); 2,4937 (9,46); 2,3940 (3,07); 2,3755 (3,88); 2,2278 (0,67); 2,2090 (0,83); 2,1898 (0,63); 1,7463 (0,62); 1,7344 (0,86); 1,7166 (0,92); 1,7061 (0,68); 1,7036 (0,69); 1,6962 (0,37); 1,6881 (0,42); 1,6193 (0,36); 1,6130 (0,56); 1,6045 (0,82); 1,5924 (1,07); 1,5852 (0,66); 1,5811 (0,68); 1,5752 (0,82); 1,5689 (0,49); 1,5648 (0,42); 1,5597 (0,38); 1,5521 (0,38); 1,5359 (0,40); 1,5197 (0,49); 1,5173 (0,50); 1,5104 (0,79); 1,5011 (0,83); 1,4927 (0,96); 1,4806 (0,80); 1,4739 (0,54); 1,2029 (0,32); 1,1844 (0,80); 1,1707 (0,73); 1,1652 (0,88); 1,1538 (0,81); 1,1456 (0,59); 1,1350 (0,66); 0,8757 (0,47); -0,0002 (9,08)
Ejemplo 366, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5689 (0,71); 7,9536 (0,80); 7,7420 (1,98); 7,7394 (2,76); 7,7355 (1,39); 7,7269 (0,78); 7,7218 (3,54); 7,7180 (2,54); 7,5676 (0,49); 7,5561 (0,35); 7,5492 (1,73); 7,5434 (0,51); 7,5345 (0,95); 7,5311 (1,58); 7,5276 (0,79); 7,5052 (2,60); 7,5019 (1,14); 7,4901 (1,63); 7,4862 (3,19); 7,4728 (0,53); 7,4686 (1,41); 7,4641 (1,72); 7,4599 (1,63); 7,4443 (1,37); 7,4403 (1,71); 7,3470 (4,63); 7,2809 (0,73); 7,2769 (0,72); 7,2619 (1,14); 7,2605 (1,14); 7,2572 (1,38); 7,2416 (0,98); 7,2375 (0,92); 6,9949 (0,82); 6,9916 (1,12); 6,9760 (1,25); 6,9723 (3,41); 6,9565 (0,65); 6,9530 (1,52); 6,9507 (1,71); 5,3432 (5,84); 5,1284 (0,38); 5,1120 (1,40); 5,0953 (1,41); 5,0788 (0,38); 3,3436 (52,87); 3,0291 (16,00); 3,0209 (0,61); 3,0145 (0,82); 2,8910 (6,58); 2,7328 (5,23); 2,7318 (5,12); 2,5267 (0,40); 2,5218 (0,61); 2,5133 (7,53); 2,5088 (15,09); 2,5042 (19,94); 2,4996 (14,42); 2,4950 (6,79); 1,5950 (5,61); 1,5785 (5,57); 1,5502 (0,34); -0,0002 (2,09)
Ejemplo 367, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1886 (1,49); 7,9742 (1,03); 7,9533 (1,86); 7,8599 (0,98); 7,8409 (1,25); 7,8204 (0,78); 7,7249 (1,38); 7,7222 (1,84); 7,7184 (0,88); 7,7096 (0,56); 7,7045 (2,43); 7,7008 (1,68); 7,5637 (0,35); 7,5454 (1,15); 7,5397 (0,34); 7,5304 (0,61); 7,5271 (1,00); 7,5237 (0,51); 7,4954 (1,70); 7,4919 (0,73); 7,4799 (1,18); 7,4762 (2,17); 7,4626 (0,35); 7,4585 (0,88); 7,4554 (0,49); 7,1829 (1,23); 7,1657 (1,17); 5,3786 (4,29); 3,3399 (87,21); 3,0540 (11,56); 2,8907 (3,99); 2,7321 (3,20); 2,7308 (3,19); 2,5254 (0,51); 2,5205 (0,82); 2,5120 (9,20); 2,5075 (18,19); 2,5029 (23,84); 2,4983 (17,24); 2,4937 (8,10); 2,0474 (11,49); 1,5590 (16,00); -0,0002 (1,91)
Ejemplo 368, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,4336 (0,66); 7,9525 (1,16); 7,7388 (2,80); 7,7349 (1,38); 7,7263 (0,82); 7,7211 (3,54); 7,7173 (2,48); 7,5670 (0,48); 7,5638 (0,32); 7,5557 (0,35); 7,5487 (1,73); 7,5428 (0,53); 7,5340 (0,95); 7,5306 (1,56); 7,5272 (0,81); 7,5051 (2,64); 7,5019 (1,16); 7,4901 (1,67); 7,4861 (3,22); 7,4727 (0,50); 7,4686 (1,25); 7,4651 (0,71); 7,3431 (5,06); 7,3246 (2,70); 7,3042 (1,76); 7,0929 (1,38); 7,0875 (2,46); 7,0820 (1,79); 7,0472 (1,17); 7,0455 (1,36); 7,0425 (1,07); 7,0407 (1,04); 7,0274 (1,05); 7,0256 (1,13); 7,0226 (1,00); 7,0208 (0,90); 6,9708 (1,10); 6,9692 (1,16); 6,9647 (1,05); 6,9631 (1,01); 6,9499 (1,01); 6,9483 (1,01); 6,9437 (0,97); 6,9421 (0,90); 5,3456 (5,96); 4,8919 (7,46); 3,3483 (158,79); 3,0350 (0,40); 3,0221 (16,00); 2,8908 (9,32); 2,7319 (7,35); 2,7314 (7,37); 2,5259 (0,72); 2,5126 (14,07); 2,5081 (27,94); 2,5035 (36,92); 2,4989 (26,94); 2,4945 (12,93); 2,2231 (0,42); -0,0002 (0,60)
Ejemplo 369, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2328 (2,72); 7,9531 (0,61); 7,8207 (0,61); 7,7997 (1,83); 7,7827 (3,03); 7,7763 (2,46); 7,7591 (0,69); 7,7554 (0,41); 7,7231 (2,73); 7,7053 (3,53); 7,7016 (2,50); 7,5627 (0,50); 7,5595 (0,32); 7,5507 (0,38); 7,5444 (1,68); 7,5387 (0,52); 7,5293 (0,97); 7,5261 (1,48); 7,5228 (0,77); 7,4954 (2,50); 7,4798 (1,84); 7,4763 (3,22); 7,4625 (0,55); 7,4586 (1,28); 7,4555 (0,75); 7,2587 (1,38); 7,2423 (1,85); 7,1920 (2,44); 7,1721 (4,14); 7,1597 (0,80); 7,1392 (0,66); 7,1156 (3,70); 7,1024 (2,04); 7,0986 (2,85); 7,0861 (1,52); 7,0823 (1,42); 5,3304 (6,54); 4,3815 (0,70); 4,3646 (0,32); 4,2681 (1,69); 4,2507 (3,80); 4,2334 (1,75); 3,3295 (63,37); 3,0624 (16,00); 2,9435 (0,52); 2,8990 (1,52); 2,8903 (5,03); 2,8817 (3,06); 2,8646 (1,38); 2,7319 (3,79); 2,7310 (3,61); 2,5247 (0,75); 2,5113 (14,79); 2,5069 (28,69); 2,5023 (37,13); 2,4978 (27,13); 2,4933 (13,12); 2,2794 (1,68); 2,2636 (10,00); 1,2348 (0,33); 0,0079 (0,33); -0,0002 (9,04)
Ejemplo 370, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1253 (2,00); 7,6237 (1,13); 7,6171 (1,49); 7,6135 (1,37); 7,6026 (0,98); 7,5961 (2,56); 7,5930 (3,18); 7,5691 (0,79); 7,5550 (0,89); 7,5489

(1,24); 7,5346 (1,15); 7,5300 (0,75); 7,5137 (0,48); 7,4304 (0,58); 7,4277 (0,63); 7,4242 (0,58); 7,4214 (0,54); 7,4069 (1,04); 7,4025 (0,92); 7,3882 (0,48); 7,3845 (0,49); 7,3793 (0,37); 7,2839 (4,74); 5,7615 (0,39); 5,3434 (6,68); 3,4016 (3,20); 3,3516 (203,75); 3,3016 (2,30); 3,0126 (16,00); 2,5620 (0,58); 2,5577 (0,74); 2,5532 (0,65); 2,5163 (15,04); 2,5122 (28,70); 2,5078 (37,42); 2,5034 (26,78); 2,4624 (0,40); 2,4577 (0,45); 2,4532 (0,37); 2,4321 (2,08); 2,4137 (3,72); 2,3950 (2,20); 1,6063 (0,54); 1,5880 (1,54); 1,5694 (2,11); 1,5508 (1,58); 1,5318 (0,61); 1,3402 (0,36); 1,3216 (1,22); 1,3028 (1,98); 1,2841 (1,97); 1,2658 (1,18); 1,2477 (0,39); 0,8961 (4,28); 0,8778 (8,45); 0,8593 (3,56)

Ejemplo 371, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,6146 (2,17); 8,0199 (1,49); 8,0000 (1,97); 7,9530 (1,33); 7,8761 (1,36); 7,8569 (1,80); 7,8366 (1,14); 7,7192 (2,63); 7,7155 (1,24); 7,7064 (0,87); 7,7015 (3,46); 7,6978 (2,36); 7,5628 (0,51); 7,5596 (0,33); 7,5507 (0,40); 7,5445 (1,65); 7,5389 (0,49); 7,5295 (0,89); 7,5262 (1,41); 7,5228 (0,70); 7,4927 (2,39); 7,4893 (1,01); 7,4771 (1,74); 7,4735 (3,10); 7,4598 (0,51); 7,4558 (1,24); 7,4527 (0,68); 7,2076 (1,78); 7,1900 (1,69); 5,3794 (6,02); 3,3328 (126,76); 3,0495 (16,00); 2,8911 (10,81); 2,7323 (8,42); 2,7313 (8,66); 2,5253 (0,91); 2,5120 (16,93); 2,5075 (32,95); 2,5029 (42,83); 2,4983 (30,77); 2,4937 (14,35); 2,1610 (1,78); 2,1401 (1,87); 1,7355 (0,68); 1,7206 (2,55); 1,7002 (2,42); 1,2522 (5,41); 1,2352 (5,18); 1,0915 (4,77); 1,0742 (4,48); 0,0080 (0,45); -0,0002 (12,06); -0,0085 (0,35)

Ejemplo 372, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,2150 (1,04); 7,8145 (0,82); 7,7973 (1,51); 7,7918 (1,11); 7,7284 (0,90); 7,7257 (1,13); 7,7219 (0,55); 7,7131 (0,36); 7,7080 (1,50); 7,7043 (1,05); 7,5454 (0,73); 7,5304 (0,40); 7,5270 (0,64); 7,4967 (1,06); 7,4932 (0,45); 7,4813 (0,74); 7,4776 (1,36); 7,4599 (0,55); 7,1047 (0,61); 7,1007 (0,62); 7,0881 (0,59); 7,0841 (0,57); 5,3430 (2,80); 3,7969 (4,10); 3,3291 (22,59); 3,0627 (7,19); 2,8911 (1,94); 2,7323 (1,60); 2,7311 (1,49); 2,5204 (0,44); 2,5119 (4,93); 2,5074 (9,74); 2,5028 (12,79); 2,4982 (9,24); 2,4937 (4,38); 0,9337 (16,00); 0,9052 (0,49); -0,0002 (4,50)

Ejemplo 373, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,8166 (1,73); 8,0306 (0,53); 8,0246 (3,75); 8,0201 (1,32); 8,0077 (1,43); 8,0031 (4,57); 7,9973 (0,64); 7,9532 (1,72); 7,7729 (4,38); 7,7684 (1,48); 7,7513 (4,17); 7,7453 (3,35); 7,7325 (0,91); 7,7275 (3,54); 7,7237 (2,55); 7,5677 (0,47); 7,5646 (0,34); 7,5564 (0,36); 7,5492 (1,74); 7,5435 (0,55); 7,5346 (0,97); 7,5313 (1,57); 7,5279 (0,85); 7,5067 (2,68); 7,4914 (1,72); 7,4875 (3,28); 7,4741 (0,52); 7,4700 (1,24); 7,4665 (0,78); 7,3919 (3,72); 5,3835 (6,09); 3,3302 (82,54); 3,0168 (16,00); 2,8909 (13,13); 2,7316 (10,91); 2,5252 (0,87); 2,5118 (16,23); 2,5074 (31,73); 2,5029 (41,54); 2,4984 (30,46); 2,4939 (14,82); 0,0078 (0,53); -0,0002 (13,09); -0,0085 (0,43)

Ejemplo 374, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5338 (2,12); 8,0745 (1,30); 8,0537 (1,55); 7,8361 (1,30); 7,8168 (1,83); 7,7966 (1,19); 7,7234 (2,66); 7,7105 (0,83); 7,7055 (3,46); 7,7017 (2,39); 7,5648 (0,48); 7,5528 (0,38); 7,5464 (1,69); 7,5408 (0,47); 7,5315 (0,91); 7,5282 (1,41); 7,5249 (0,71); 7,4974 (2,46); 7,4818 (1,72); 7,4781 (3,15); 7,4645 (0,49); 7,4605 (1,23); 7,4572 (0,69); 7,1438 (1,86); 7,1256 (1,78); 5,3553 (6,54); 3,5493 (2,35); 3,5325 (5,06); 3,5157 (2,42); 3,3346 (104,02); 3,0721 (0,33); 3,0543 (16,00); 2,8910 (2,52); 2,7319 (2,05); 2,5253 (0,71); 2,5204 (1,10); 2,5119 (14,07); 2,5074 (27,95); 2,5029 (36,72); 2,4983 (26,58); 2,4938 (12,60); 2,4108 (1,52); 2,3926 (3,02); 2,3741 (1,66); 1,8517 (0,47); 1,8347 (1,35); 1,8168 (1,56); 1,7975 (1,43); 1,7806 (0,54); 1,6361 (0,36); 1,6177 (1,09); 1,5990 (1,53); 1,5801 (1,22); 1,5613 (0,48); 1,4378 (0,49); 1,4239 (0,68); 1,4180 (1,11); 1,4079 (0,65); 1,4001 (1,50); 1,3863 (0,57); 1,3797 (0,77); -0,0002 (4,11)

Ejemplo 375, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,7390 (1,95); 8,0257 (1,22); 8,0050 (1,51); 7,9529 (0,71); 7,8287 (1,27); 7,8095 (1,74); 7,7891 (1,15); 7,7214 (2,53); 7,7176 (1,21); 7,7088 (0,75); 7,7037 (3,38); 7,6999 (2,36); 7,5638 (0,47); 7,5519 (0,34); 7,5455 (1,60); 7,5399 (0,46); 7,5305 (0,84); 7,5272 (1,38); 7,5238 (0,69); 7,4953 (2,34); 7,4918 (0,98); 7,4798 (1,61); 7,4761 (3,06); 7,4625 (0,48); 7,4584 (1,23); 7,4552 (0,68); 7,2292 (2,44); 7,2092 (3,60); 7,1518 (1,74); 7,1328 (1,91); 7,1252 (3,15); 7,1056 (2,16); 5,3645 (6,09); 3,6570 (5,26); 3,3287 (60,75); 3,0473 (16,00); 2,8901 (5,80); 2,7316 (4,56); 2,7307 (4,56); 2,5247 (0,55); 2,5199 (0,94); 2,5114 (13,05); 2,5069 (26,19); 2,5023 (34,53); 2,4976 (24,97); 2,4931 (11,82); 2,2637 (9,60); 0,0080 (0,53); -0,0002 (15,92); -0,0086 (0,47)

Ejemplo 376, Disolvente: DMSO, Espectrómetro: 400,13 MHz

10,5833 (2,13); 8,1412 (1,25); 8,1205 (1,46); 7,8987 (1,25); 7,8794 (1,75); 7,8591 (1,15); 7,6809 (0,63); 7,6768 (0,94); 7,6712 (0,89); 7,6656 (0,68); 7,6624 (1,10); 7,6588 (0,88); 7,6560 (0,93); 7,6516 (1,17); 7,6454 (2,31); 7,6427 (2,11); 7,6216 (0,72); 7,6074 (0,82); 7,6015 (1,08); 7,5870 (1,18); 7,5819 (0,55); 7,5664 (0,51); 7,4921 (0,50); 7,4892 (0,56); 7,4857 (0,49); 7,4828 (0,46); 7,4679 (0,86); 7,4642 (0,75); 7,4498 (0,40); 7,4469 (0,41); 7,4438 (0,38); 7,2126 (1,79); 7,1949 (1,71); 5,8243 (2,54); 5,4358 (6,17); 3,4481 (0,51); 3,3982 (42,17); 3,3482 (0,41); 3,1093 (16,00); 2,6199 (0,41); 2,6154 (0,58); 2,6109 (0,43); 2,5880 (0,82); 2,5833 (1,32); 2,5744 (16,94); 2,5700 (35,55); 2,5655 (48,62); 2,5610 (34,80); 2,5567 (16,18); 2,5201 (0,38); 2,5155 (0,49); 2,5110 (0,36); 2,4528 (1,65); 2,4344 (3,10); 2,4158 (1,79); 1,6686 (0,36); 1,6502 (1,06); 1,6318 (1,48); 1,6139 (1,03); 1,5956 (0,34); 1,3808 (0,37); 1,3648 (0,79); 1,3481 (1,60); 1,3406 (2,40); 1,3333 (2,01); 1,3233 (1,64); 1,3135 (1,18); 1,3028 (0,62); 1,2954 (0,48); 0,9418 (2,45); 0,9247 (6,33); 0,9069 (2,54)

Ejemplo 377, Disolvente: DMSO, Espectrómetro: 399,95 MHz

10,5486 (2,09); 8,0769 (1,15); 8,0562 (1,36); 7,9534 (0,40); 7,8355 (1,28); 7,8162 (1,74); 7,7960 (1,17); 7,7238 (2,56); 7,7199 (1,23); 7,7111 (0,75); 7,7060 (3,41); 7,7022 (2,36); 7,5630 (0,48); 7,5511 (0,34); 7,5447 (1,65); 7,5390 (0,47); 7,5298 (0,85); 7,5264 (1,40); 7,5230 (0,71); 7,4954 (2,37); 7,4919 (1,01); 7,4799 (1,61); 7,4762 (3,08); 7,4626 (0,46); 7,4585 (1,21); 7,4553 (0,68); 7,2984 (1,10); 7,2945 (0,45); 7,2799 (2,65); 7,2661 (0,85); 7,2616 (2,54); 7,2105 (3,24); 7,1929 (2,59); 7,1743 (1,40); 7,1691 (0,35); 7,1597 (0,35); 7,1563 (0,55); 7,1434 (1,77); 7,1255 (1,71); 5,3532 (6,15); 3,3283 (54,14); 3,0539 (16,00); 2,8904 (3,35); 2,7316 (2,62); 2,6157 (1,44); 2,5970 (1,93); 2,5770 (1,62); 2,5249 (0,68); 2,5202 (1,04); 2,5116 (12,85); 2,5071 (25,62); 2,5025 (33,69); 2,4979 (24,30); 2,4933 (11,46); 2,4397 (1,45); 2,4214 (2,77); 2,4029 (1,64); 1,9101 (0,44); 1,8910 (1,21); 1,8719 (1,51); 1,8530 (1,12); 1,8344 (0,35); 0,0080 (0,35); -0,0002 (10,62)

Ejemplo 378, Disolvente: DMSO, Espectrómetro: 399,95 MHz

12,4210 (2,01); 7,9530 (1,04); 7,7377 (1,93); 7,7351 (2,62); 7,7311 (1,25); 7,7227 (0,78); 7,7175 (3,41); 7,7136 (2,33); 7,5639 (0,46); 7,5525 (0,33); 7,5456 (1,65); 7,5397 (0,48); 7,5309 (0,91); 7,5275 (1,49); 7,5240 (0,74); 7,5017 (2,48); 7,4983 (1,05); 7,4867 (1,59); 7,4826 (3,05); 7,4693 (0,48); 7,4651 (1,20); 7,4616 (0,66); 7,3453 (0,34); 7,3315 (0,52); 7,3262 (3,12); 7,3209 (3,45); 7,3124 (12,83); 7,3042 (0,57); 7,2996

(0,69); 7,2771 (4,45); 7,2657 (0,78); 7,2633 (0,69); 7,2597 (0,55); 7,2542 (0,62); 7,2508 (0,78); 7,2458 (0,53); 7,2405 (0,34); 7,2370 (0,39); 5,3279 (5,95); 3,7498 (7,45); 3,3295 (25,43); 3,3275 (36,79); 3,0163 (16,00); 2,8900 (8,57); 2,7315 (6,74); 2,5246 (0,63); 2,5198 (0,98); 2,5114 (11,58); 2,5068 (22,97); 2,5022 (30,18); 2,4976 (21,76); 2,4931 (10,27); 0,0080 (0,42); -0,0002 (11,84); -0,0085 (0,35)
Ejemplo 379, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,0901 (1,67); 8,0496 (1,08); 8,0289 (1,34); 7,8809 (1,28); 7,8615 (1,78); 7,8414 (1,10); 7,7331 (0,32); 7,7276 (1,93); 7,7249 (2,49); 7,7211 (1,26); 7,7124 (0,82); 7,7072 (3,43); 7,7035 (2,32); 7,5652 (0,48); 7,5533 (0,36); 7,5469 (1,58); 7,5412 (0,48); 7,5320 (0,86); 7,5286 (1,39); 7,5252 (0,71); 7,4976 (2,35); 7,4941 (1,03); 7,4822 (1,61); 7,4785 (2,99); 7,4649 (0,47); 7,4608 (1,20); 7,4576 (0,66); 7,1874 (1,70); 7,1700 (1,64); 5,3671 (6,32); 4,0642 (8,62); 3,3601 (19,81); 3,3284 (43,74); 3,0675 (16,00); 2,5251 (0,60); 2,5202 (0,98); 2,5117 (10,28); 2,5072 (20,13); 2,5026 (26,35); 2,4980 (19,02); 2,4935 (8,98); 0,8758 (0,53); 0,0080 (0,32); -0,0002 (8,55)
Ejemplo 380, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,0468 (2,33); 8,2087 (1,47); 8,2042 (2,62); 8,1998 (1,55); 8,1544 (1,61); 8,1345 (1,97); 8,0191 (0,91); 8,0166 (1,21); 8,0128 (0,93); 7,9996 (1,03); 7,9969 (1,25); 7,9958 (1,26); 7,9932 (0,98); 7,9531 (0,92); 7,9344 (1,31); 7,9151 (1,83); 7,8949 (1,17); 7,8119 (0,91); 7,8095 (1,05); 7,8070 (0,99); 7,8046 (0,90); 7,7919 (1,07); 7,7895 (1,12); 7,7870 (1,15); 7,7846 (0,98); 7,7390 (1,93); 7,7365 (2,57); 7,7326 (1,26); 7,7239 (0,76); 7,7187 (3,37); 7,7150 (2,37); 7,5684 (0,47); 7,5565 (0,33); 7,5500 (1,61); 7,5443 (0,48); 7,5351 (0,86); 7,5318 (1,42); 7,5284 (0,74); 7,5015 (3,00); 7,4867 (1,68); 7,4810 (4,00); 7,4694 (0,53); 7,4653 (1,29); 7,4609 (1,73); 7,2472 (1,78); 7,2293 (1,72); 5,4193 (6,15); 3,3474 (79,23); 3,3440 (115,92); 3,0810 (16,00); 2,8912 (7,35); 2,7325 (5,82); 2,7316 (5,74); 2,5262 (0,60); 2,5215 (0,91); 2,5129 (12,27); 2,5084 (24,79); 2,5038 (32,90); 2,4992 (24,02); 2,4947 (11,54); -0,0002 (7,80)
Ejemplo 381, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,8881 (1,89); 8,0482 (1,10); 8,0275 (1,34); 7,9534 (1,17); 7,8927 (2,02); 7,8861 (1,51); 7,8778 (2,27); 7,8692 (2,28); 7,8581 (2,00); 7,8435 (1,97); 7,8362 (1,41); 7,8169 (1,65); 7,7965 (1,12); 7,7256 (1,87); 7,7229 (2,46); 7,7190 (1,18); 7,7103 (0,75); 7,7051 (3,35); 7,7014 (2,30); 7,5624 (0,48); 7,5504 (0,35); 7,5441 (1,59); 7,5384 (0,47); 7,5291 (0,90); 7,5257 (1,53); 7,5217 (1,95); 7,5170 (1,62); 7,5052 (1,46); 7,4996 (2,24); 7,4952 (4,17); 7,4886 (2,90); 7,4813 (1,57); 7,4780 (2,28); 7,4744 (3,58); 7,4566 (1,36); 7,4538 (0,79); 7,1606 (1,66); 7,1431 (1,61); 5,3758 (5,74); 3,9037 (4,99); 3,3314 (84,48); 3,0547 (16,00); 2,8902 (9,91); 2,7319 (7,85); 2,7308 (7,61); 2,5251 (0,76); 2,5204 (1,22); 2,5118 (14,47); 2,5073 (28,90); 2,5027 (38,06); 2,4980 (27,38); 2,4935 (12,84); -0,0002 (8,50)
Ejemplo 382, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6884 (2,06); 8,0222 (0,67); 8,0016 (0,87); 7,8850 (1,29); 7,8658 (1,69); 7,8455 (1,07); 7,7315 (1,88); 7,7287 (2,48); 7,7249 (1,18); 7,7162 (0,74); 7,7110 (3,35); 7,7073 (2,30); 7,5671 (0,48); 7,5552 (0,34); 7,5488 (1,58); 7,5431 (0,46); 7,5339 (0,84); 7,5305 (1,39); 7,5271 (0,69); 7,4993 (2,27); 7,4958 (0,95); 7,4839 (1,56); 7,4802 (2,95); 7,4666 (0,46); 7,4625 (1,21); 7,4593 (0,65); 7,2827 (1,19); 7,2625 (2,51); 7,2421 (1,92); 7,2081 (1,68); 7,1996 (1,41); 7,1945 (2,27); 7,1891 (3,17); 7,1695 (1,29); 7,1673 (1,51); 7,1652 (1,12); 7,1629 (1,00); 7,1498 (0,92); 7,1476 (0,93); 7,1453 (0,86); 7,1432 (0,68); 6,9984 (1,00); 6,9963 (1,04); 6,9922 (0,98); 6,9901 (0,93); 6,9776 (0,91); 6,9755 (0,88); 6,9713 (0,88); 6,9693 (0,78); 5,3865 (5,76); 4,8406 (5,38); 3,3339 (77,04); 3,0689 (16,00); 2,8905 (0,35); 2,5253 (0,71); 2,5205 (1,15); 2,5119 (13,10); 2,5074 (26,04); 2,5027 (34,22); 2,4981 (24,64); 2,4935 (11,54); -0,0002 (2,40)
Ejemplo 383, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,9456 (2,10); 7,9178 (2,65); 7,7269 (1,43); 7,7001 (2,53); 7,6728 (3,34); 7,6472 (3,04); 7,6295 (2,57); 7,2642 (9,28); 7,1378 (2,26); 7,1118 (4,37); 7,0844 (2,20); 7,0178 (2,62); 6,9930 (2,44); 5,2842 (9,93); 5,0332 (0,71); 5,0110 (1,22); 4,9903 (1,22); 4,9702 (0,68); 3,1054 (16,00); 1,7335 (0,39); 1,7115 (0,86); 1,6900 (1,19); 1,6663 (1,21); 1,6532 (1,29); 1,6116 (8,38); 1,5884 (1,39); 1,5662 (0,71); 1,3629 (0,77); 1,3428 (1,15); 1,3207 (1,40); 1,2955 (8,48); 1,2748 (8,38); 0,9369 (14,57); 0,9159 (13,90); -0,0002 (2,87)
Ejemplo 384, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5328 (2,13); 8,0787 (1,28); 8,0580 (1,52); 7,8384 (1,28); 7,8190 (1,79); 7,7988 (1,19); 7,5405 (2,14); 7,5253 (0,63); 7,5209 (0,53); 7,5165 (0,93); 7,5132 (0,95); 7,5079 (0,57); 7,5038 (0,87); 7,4993 (0,64); 7,3901 (0,41); 7,3711 (2,32); 7,3656 (1,55); 7,3595 (3,13); 7,3570 (3,09); 7,1364 (1,83); 7,1186 (1,74); 5,3530 (6,22); 4,0613 (0,50); 4,0435 (1,53); 4,0257 (1,55); 4,0079 (0,51); 3,3952 (0,54); 3,3452 (30,65); 3,2949 (0,53); 3,0474 (16,00); 2,5596 (0,38); 2,5320 (0,53); 2,5273 (0,87); 2,5186 (8,94); 2,5142 (18,43); 2,5097 (24,98); 2,5052 (17,82); 2,5008 (8,22); 2,4593 (0,39); 2,4548 (0,33); 2,4071 (1,81); 2,3888 (3,41); 2,3702 (1,98); 2,3381 (10,37); 1,9963 (6,81); 1,5958 (0,46); 1,5776 (1,34); 1,5589 (1,85); 1,5405 (1,38); 1,5215 (0,57); 1,3308 (1,10); 1,3119 (1,73); 1,2931 (1,73); 1,2750 (1,05); 1,2569 (0,32); 1,1984 (1,83); 1,1806 (3,67); 1,1628 (1,79); 0,9054 (4,10); 0,8871 (8,36); 0,8768 (0,37); 0,8686 (3,44)
Ejemplo 385, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
9,2433 (0,89); 8,5283 (0,54); 8,5013 (0,59); 7,7846 (1,15); 7,7590 (1,66); 7,7317 (1,19); 7,6522 (1,59); 7,6480 (2,15); 7,6425 (1,14); 7,6325 (0,78); 7,6254 (2,72); 7,6199 (2,23); 7,5104 (0,33); 7,4857 (1,22); 7,4771 (0,46); 7,4676 (0,95); 7,4626 (1,50); 7,4572 (0,85); 7,4521 (0,64); 7,4443 (2,50); 7,4397 (1,17); 7,4262 (1,22); 7,4244 (1,23); 7,4197 (2,46); 7,4025 (0,49); 7,3968 (0,87); 7,3907 (0,58); 7,2636 (2,74); 7,1610 (1,64); 7,1363 (1,53); 5,3624 (6,90); 3,3141 (2,09); 3,2896 (2,97); 3,2648 (2,24); 3,1101 (16,00); 1,7511 (0,39); 1,7274 (1,01); 1,7022 (1,79); 1,6935 (0,93); 1,6770 (2,45); 1,6520 (0,70); 1,4949 (0,98); 1,4698 (1,45); 1,4442 (1,46); 1,4203 (0,90); 0,9759 (3,50); 0,9516 (7,07); 0,9272 (2,94); -0,0002 (1,15)
Ejemplo 386, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7418 (1,97); 8,0578 (1,25); 8,0371 (1,50); 7,9533 (0,93); 7,8227 (1,27); 7,8033 (1,72); 7,7831 (1,15); 7,7071 (2,56); 7,7033 (1,22); 7,6943 (0,75); 7,6893 (3,36); 7,6856 (2,33); 7,5568 (0,49); 7,5446 (0,37); 7,5385 (1,60); 7,5329 (0,47); 7,5234 (0,83); 7,5201 (1,35); 7,5168 (0,68); 7,4857 (2,36); 7,4821 (0,99); 7,4700 (1,63); 7,4664 (3,04); 7,4527 (0,48); 7,4487 (1,21); 7,4457 (0,68); 7,4087 (1,51); 7,4052 (2,08); 7,3875 (2,96); 7,3314 (1,73); 7,3269 (0,57); 7,3132 (3,23); 7,2939 (1,65); 7,2470 (0,67); 7,2438 (1,17); 7,2406 (0,66); 7,2308 (0,50); 7,2256 (1,51); 7,2202 (0,37); 7,2106 (0,33); 7,2075 (0,53); 7,1365 (1,76); 7,1187 (1,70); 5,3438 (5,95); 3,8183 (0,56); 3,8019 (0,77); 3,7968 (0,75); 3,7803 (0,59); 3,3264 (38,18); 3,0233 (16,00); 2,8902 (7,74); 2,7317 (6,02); 2,7308 (6,16); 2,5248 (0,79); 2,5115 (14,43); 2,5070 (28,64); 2,5024

(37,59); 2,4977 (27,04); 2,4932 (12,69); 2,0947 (0,34); 2,0765 (0,43); 2,0730 (0,39); 2,0612 (0,49); 2,0548 (0,43); 2,0429 (0,48); 2,0395 (0,48); 2,0212 (0,39); 1,7198 (0,40); 1,7031 (0,61); 1,6854 (0,73); 1,6680 (0,53); 1,6514 (0,36); 0,8610 (2,77); 0,8427 (6,03); 0,8244 (2,55); 0,0079 (0,53); -0,0002 (15,46); -0,0086 (0,44)
Ejemplo 387, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8767 (0,82); 8,0246 (0,58); 8,0043 (0,73); 7,8474 (0,47); 7,8280 (0,64); 7,8078 (0,40); 7,5412 (0,75); 7,5163 (0,33); 7,5132 (0,33); 7,3712 (0,86); 7,3598 (1,08); 7,3575 (1,05); 7,1489 (0,66); 7,1306 (0,62); 5,7689 (2,10); 5,3786 (2,23); 3,3443 (11,96); 3,0684 (5,46); 2,5321 (0,36); 2,5186 (5,00); 2,5143 (10,13); 2,5098 (13,61); 2,5053 (9,71); 2,5010 (4,51); 2,3374 (3,68); 1,2399 (16,00)
Ejemplo 388, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5007 (1,97); 8,0764 (1,46); 8,0557 (1,74); 7,9532 (0,33); 7,8306 (1,27); 7,8113 (1,80); 7,7910 (1,17); 7,7230 (2,63); 7,7193 (1,31); 7,7103 (0,84); 7,7053 (3,41); 7,7016 (2,43); 7,5650 (0,49); 7,5532 (0,36); 7,5468 (1,63); 7,5410 (0,50); 7,5318 (0,90); 7,5285 (1,43); 7,5251 (0,74); 7,4978 (2,44); 7,4945 (1,10); 7,4824 (1,70); 7,4787 (3,12); 7,4650 (0,51); 7,4610 (1,24); 7,4578 (0,73); 7,1384 (1,81); 7,1201 (1,76); 5,3573 (6,42); 3,3418 (105,76); 3,0589 (16,00); 2,9544 (0,50); 2,9354 (0,75); 2,9162 (0,61); 2,8913 (2,56); 2,7326 (2,09); 2,7315 (2,00); 2,6341 (0,39); 2,5260 (0,69); 2,5126 (12,21); 2,5082 (23,81); 2,5036 (31,00); 2,4991 (22,64); 2,4946 (10,96); 1,8666 (0,36); 1,8464 (0,93); 1,8260 (1,13); 1,8167 (0,76); 1,8120 (0,85); 1,8005 (0,55); 1,7931 (0,35); 1,7859 (0,42); 1,7809 (0,42); 1,7151 (0,80); 1,7092 (0,57); 1,6964 (1,13); 1,6900 (1,00); 1,6813 (1,32); 1,6776 (1,38); 1,6644 (1,97); 1,6524 (1,31); 1,6464 (1,13); 1,6329 (0,81); 1,6272 (0,68); 1,6138 (0,43); 1,6069 (0,55); 1,5839 (0,50); 1,5754 (0,57); 1,5717 (0,55); 1,5470 (1,08); 1,5376 (1,16); 1,5304 (1,34); 1,5186 (1,09); 1,5118 (0,88); 1,4909 (0,36)
Ejemplo 389, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5069 (1,95); 8,0631 (1,20); 8,0424 (1,43); 7,8301 (1,26); 7,8108 (1,73); 7,7905 (1,14); 7,7318 (0,34); 7,7262 (2,03); 7,7237 (2,61); 7,7199 (1,27); 7,7110 (0,83); 7,7059 (3,46); 7,7022 (2,40); 7,5643 (0,50); 7,5611 (0,32); 7,5524 (0,38); 7,5460 (1,67); 7,5403 (0,50); 7,5311 (0,90); 7,5278 (1,45); 7,5243 (0,73); 7,4967 (2,44); 7,4933 (1,05); 7,4813 (1,69); 7,4776 (3,13); 7,4640 (0,49); 7,4599 (1,24); 7,4567 (0,69); 7,1397 (1,75); 7,1213 (1,70); 5,3531 (6,21); 3,3287 (43,18); 3,0720 (0,45); 3,0539 (16,00); 2,8908 (2,58); 2,7322 (2,01); 2,7312 (2,01); 2,5253 (0,61); 2,5204 (0,97); 2,5119 (10,42); 2,5074 (20,51); 2,5028 (26,96); 2,4982 (19,56); 2,4937 (9,34); 2,3033 (1,58); 2,2849 (2,51); 2,2656 (1,81); 2,2574 (0,75); 2,2377 (0,96); 2,2183 (0,80); 2,1989 (0,38); 2,0272 (0,36); 2,0171 (0,40); 2,0086 (0,62); 2,0066 (0,63); 2,0027 (0,64); 1,9984 (0,94); 1,9880 (0,83); 1,9843 (0,77); 1,9778 (0,93); 1,9744 (0,77); 1,9695 (0,66); 1,9660 (0,70); 1,9607 (0,43); 1,9550 (0,34); 1,9491 (0,43); 1,8059 (0,48); 1,8029 (0,64); 1,8012 (0,64); 1,7871 (0,58); 1,7820 (1,15); 1,7676 (0,89); 1,7584 (0,90); 1,7470 (0,55); 1,7403 (0,55); 1,7364 (0,35); 1,6892 (0,93); 1,6702 (2,13); 1,6514 (2,03); 1,6328 (0,83); 1,6254 (0,43); 1,6188 (0,33); 1,6034 (1,04); 1,5967 (0,79); 1,5799 (1,13); 1,5744 (1,16); 1,5587 (0,66); 1,5535 (0,90); 0,8622 (0,71); -0,0002 (8,05)
Ejemplo 390, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,0026 (2,06); 8,0726 (1,55); 8,0521 (1,93); 7,8842 (1,32); 7,8649 (1,90); 7,8448 (1,16); 7,7254 (2,72); 7,7127 (0,89); 7,7076 (3,54); 7,7039 (2,49); 7,5647 (0,51); 7,5615 (0,32); 7,5527 (0,40); 7,5464 (1,71); 7,5408 (0,51); 7,5314 (0,96); 7,5281 (1,45); 7,5247 (0,75); 7,4964 (2,47); 7,4808 (1,78); 7,4771 (3,21); 7,4635 (0,52); 7,4594 (1,29); 7,4563 (0,77); 7,1984 (1,85); 7,1801 (1,80); 5,3767 (6,51); 4,1631 (0,45); 4,1464 (1,65); 4,1298 (1,67); 4,1132 (0,47); 3,3329 (83,44); 3,3215 (1,62); 3,3124 (1,81); 3,2953 (1,74); 3,2809 (1,67); 3,2635 (1,68); 3,2554 (0,80); 3,2376 (0,81); 3,0797 (16,00); 3,0659 (0,37); 2,8913 (0,54); 2,7325 (0,44); 2,5256 (0,68); 2,5123 (11,39); 2,5079 (22,13); 2,5033 (28,90); 2,4987 (21,01); 2,4942 (10,08); 1,3121 (6,45); 1,2955 (6,33); 1,0487 (0,43); 1,0463 (0,44); 1,0409 (0,41); 1,0370 (0,35); 1,0289 (0,75); 1,0207 (0,35); 1,0167 (0,45); 1,0116 (0,44); 1,0090 (0,44); 0,4849 (0,73); 0,4779 (1,04); 0,4735 (1,56); 0,4706 (1,10); 0,4639 (1,32); 0,4594 (1,00); 0,4575 (1,01); 0,4533 (1,43); 0,4475 (0,82); 0,4433 (0,78); 0,2019 (0,81); 0,1930 (1,81); 0,1895 (2,21); 0,1808 (2,16); 0,1776 (1,65); 0,1682 (0,67); -0,0002 (4,96)
Ejemplo 391, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,0276 (2,51); 8,1691 (1,68); 8,1490 (2,03); 7,9445 (1,33); 7,9250 (1,90); 7,9049 (1,26); 7,8944 (1,33); 7,8919 (1,10); 7,8750 (1,67); 7,8724 (1,49); 7,8636 (1,00); 7,8600 (0,66); 7,8448 (0,82); 7,8387 (0,91); 7,8346 (0,67); 7,6024 (0,58); 7,5877 (0,69); 7,5821 (1,09); 7,5675 (1,27); 7,5618 (1,30); 7,5539 (2,26); 7,5489 (1,48); 7,5387 (0,67); 7,5339 (0,60); 7,5303 (0,95); 7,5268 (0,99); 7,5174 (0,93); 7,5129 (0,69); 7,4866 (0,58); 7,4845 (0,63); 7,4801 (0,57); 7,4781 (0,56); 7,4631 (0,96); 7,4580 (0,85); 7,4442 (0,43); 7,4419 (0,44); 7,4376 (0,40); 7,4355 (0,37); 7,3955 (0,33); 7,3764 (2,22); 7,3703 (1,53); 7,3644 (3,16); 7,3619 (3,11); 7,2441 (1,85); 7,2261 (1,78); 5,4218 (6,20); 3,3943 (1,10); 3,3445 (54,95); 3,2947 (0,83); 3,0750 (16,00); 2,6789 (0,33); 2,5688 (0,39); 2,5643 (0,77); 2,5598 (1,05); 2,5553 (0,76); 2,5508 (0,39); 2,5323 (1,05); 2,5188 (19,92); 2,5144 (40,84); 2,5099 (55,29); 2,5055 (39,65); 2,5011 (18,54); 2,4693 (0,34); 2,4648 (0,57); 2,4602 (0,76); 2,4556 (0,55); 2,3407 (10,44); 1,9970 (1,24); 1,2523 (0,92); 1,1992 (0,36); 1,1814 (0,67); 1,1636 (0,32); 0,8812 (0,42); 0,8645 (1,36); 0,8469 (0,52)
Ejemplo 392, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5733 (1,72); 7,6261 (3,54); 7,6055 (4,12); 7,3568 (4,66); 7,3091 (3,37); 7,2889 (2,96); 7,0152 (1,30); 6,9964 (1,75); 6,9942 (1,67); 6,9157 (0,67); 6,9082 (0,88); 6,9009 (0,96); 6,8934 (1,47); 6,8892 (0,62); 6,8812 (0,75); 6,8742 (1,83); 6,8629 (4,80); 6,8586 (3,14); 6,8477 (1,14); 6,8438 (0,93); 5,3230 (6,03); 5,1546 (1,11); 5,1461 (2,10); 5,1364 (1,16); 4,4366 (2,33); 4,4323 (2,52); 4,4261 (2,87); 4,0421 (0,58); 4,0242 (0,58); 3,3970 (0,66); 3,3471 (67,02); 3,2973 (0,68); 2,9986 (16,00); 2,5578 (0,39); 2,5301 (0,75); 2,5165 (14,60); 2,5123 (29,33); 2,5078 (39,11); 2,5034 (28,35); 2,4994 (13,71); 2,4626 (0,40); 2,4580 (0,46); 2,4536 (0,35); 2,3547 (10,22); 2,3350 (0,40); 1,9948 (2,54); 1,1969 (0,68); 1,1791 (1,35); 1,1613 (0,67)
Ejemplo 393, Disolvente: DMSO, Espectrómetro: 399,95 MHz
12,5563 (0,44); 8,1105 (0,44); 8,1034 (3,66); 8,0984 (1,15); 8,0861 (1,23); 8,0811 (3,92); 8,0737 (0,41); 7,9532 (0,76); 7,9040 (1,39); 7,8988 (0,43); 7,8868 (0,45); 7,8817 (1,47); 7,7487 (2,00); 7,7461 (2,66); 7,7422 (1,30); 7,7337 (0,82); 7,7285 (3,41); 7,7247 (2,38); 7,5681 (0,47); 7,5568 (0,34); 7,5498 (1,63); 7,5438 (0,50); 7,5351 (0,94); 7,5317 (1,51); 7,5282 (0,77); 7,5076 (2,49); 7,5042 (1,10); 7,4926 (1,61); 7,4886 (3,05); 7,4753 (0,51); 7,4711 (1,23); 7,4675 (0,73); 7,3845 (0,89); 7,3625 (0,94); 7,3443 (4,57); 7,0898 (0,44); 7,0825 (3,84); 7,0775 (1,19); 7,0650 (1,17); 7,0601 (3,68); 7,0526 (0,46); 7,0294 (1,51); 7,0243 (0,44); 7,0122 (0,43); 7,0071 (1,35); 6,9765 (0,91); 6,9546 (0,80); 5,3767

(5,61); 3,8453 (16,00); 3,8243 (6,22); 3,7997 (0,36); 3,7896 (3,84); 3,3424 (91,62); 3,0171 (15,48); 2,9458 (4,16); 2,8912 (6,02); 2,7850 (0,66); 2,7325 (4,75); 2,5262 (0,75); 2,5128 (14,48); 2,5084 (28,24); 2,5038 (36,64); 2,4992 (26,44); 2,4947 (12,48); -0,0002 (3,63)
Ejemplo 394, Disolvente: DMSO, Espectrómetro: 399,95 MHz
11,7925 (1,40); 7,9532 (0,38); 7,7322 (2,03); 7,7294 (2,72); 7,7254 (1,35); 7,7170 (0,97); 7,7118 (3,54); 7,7080 (2,39); 7,5623 (0,53); 7,5590 (0,35); 7,5509 (0,41); 7,5440 (1,74); 7,5381 (0,55); 7,5293 (1,01); 7,5259 (1,58); 7,5224 (0,80); 7,4997 (2,63); 7,4963 (1,17); 7,4847 (1,76); 7,4807 (3,26); 7,4673 (0,54); 7,4632 (1,31); 7,4597 (0,76); 7,2557 (3,92); 5,8452 (0,62); 5,8362 (0,33); 5,8193 (0,95); 5,8022 (0,98); 5,7931 (0,36); 5,7853 (0,36); 5,7764 (0,75); 5,7597 (0,35); 5,2821 (5,80); 5,1694 (0,50); 5,1655 (1,19); 5,1608 (1,28); 5,1569 (0,54); 5,1263 (0,45); 5,1224 (1,07); 5,1177 (1,17); 5,1139 (0,49); 5,0947 (0,62); 5,0919 (1,22); 5,0892 (0,99); 5,0870 (1,07); 5,0841 (0,52); 5,0691 (0,56); 5,0662 (1,11); 5,0637 (0,89); 5,0613 (0,99); 5,0585 (0,46); 4,2279 (0,54); 4,2217 (2,07); 4,2049 (4,40); 4,1882 (2,08); 3,3339 (96,70); 3,0302 (16,00); 2,9895 (0,64); 2,8907 (3,07); 2,7322 (2,36); 2,7311 (2,43); 2,5253 (0,63); 2,5205 (1,04); 2,5120 (11,75); 2,5075 (23,44); 2,5029 (30,95); 2,4982 (22,50); 2,4937 (10,74); 2,4225 (0,71); 2,4194 (0,50); 2,4090 (1,29); 2,4058 (2,07); 2,4026 (1,35); 2,3923 (1,29); 2,3890 (2,03); 2,3859 (1,30); 2,3754 (0,48); 2,3723 (0,69); 1,2348 (0,32); 1,1206 (0,53); 1,1054 (0,52); 0,9300 (1,12); 0,0080 (0,33); -0,0002 (9,72)
Ejemplo 395, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,1127 (2,58); 7,9532 (0,35); 7,8282 (0,49); 7,8071 (2,01); 7,7951 (2,36); 7,7914 (3,78); 7,7743 (0,55); 7,7257 (1,90); 7,7230 (2,58); 7,7191 (1,22); 7,7105 (0,77); 7,7053 (3,46); 7,7015 (2,34); 7,5623 (0,49); 7,5504 (0,35); 7,5439 (1,62); 7,5382 (0,47); 7,5291 (0,86); 7,5257 (1,44); 7,5222 (0,71); 7,4955 (2,38); 7,4921 (0,99); 7,4802 (1,59); 7,4764 (3,03); 7,4629 (0,46); 7,4588 (1,22); 7,4555 (0,66); 7,1012 (1,29); 7,0958 (1,29); 7,0857 (1,16); 7,0804 (1,21); 5,3305 (6,04); 4,8838 (0,40); 4,8703 (0,58); 4,8681 (0,58); 4,8650 (0,52); 4,8547 (0,58); 4,8513 (0,60); 4,8357 (0,41); 3,3290 (56,41); 3,0698 (16,00); 2,8906 (2,95); 2,7977 (1,23); 2,7910 (2,92); 2,7844 (1,24); 2,7321 (2,26); 2,7309 (2,29); 2,5250 (0,63); 2,5203 (1,02); 2,5117 (11,93); 2,5071 (23,85); 2,5025 (31,49); 2,4979 (22,71); 2,4933 (10,66); 2,2839 (0,80); 2,2773 (0,87); 2,2650 (1,70); 2,2584 (1,61); 2,2472 (1,00); 2,2406 (0,92); 1,7763 (0,54); 1,7588 (1,05); 1,7489 (0,36); 1,7405 (1,33); 1,7350 (0,84); 1,7218 (1,11); 1,7157 (0,41); 1,7017 (0,47); 1,2559 (6,32); 1,2403 (6,30); -0,0002 (1,30)
Ejemplo 396, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8305 (1,11); 7,7772 (0,77); 7,7613 (1,78); 7,7574 (1,15); 7,6655 (1,58); 7,6603 (0,50); 7,6482 (0,52); 7,6430 (1,74); 7,0663 (0,55); 7,0619 (0,57); 7,0502 (0,54); 7,0455 (0,68); 7,0374 (1,69); 7,0322 (0,52); 7,0200 (0,49); 7,0149 (1,57); 5,2763 (2,54); 3,8139 (6,53); 3,3288 (12,65); 3,0511 (6,27); 2,5186 (2,23); 2,5142 (4,61); 2,5097 (6,28); 2,5052 (4,47); 2,5008 (2,09); 1,4705 (16,00)
Ejemplo 397, Disolvente: DMSO, Espectrómetro: 399,95 MHz
9,0453 (2,48); 8,1017 (1,76); 8,0810 (2,02); 7,8722 (1,32); 7,8528 (1,87); 7,8327 (1,26); 7,7023 (2,63); 7,6985 (1,27); 7,6895 (0,86); 7,6845 (3,61); 7,6807 (2,77); 7,6620 (0,49); 7,6582 (0,34); 7,5610 (0,55); 7,5577 (0,38); 7,5489 (0,40); 7,5427 (1,73); 7,5373 (0,65); 7,5276 (0,91); 7,5243 (1,52); 7,5209 (0,89); 7,4905 (2,49); 7,4868 (1,21); 7,4808 (0,42); 7,4749 (1,78); 7,4713 (3,26); 7,4576 (0,54); 7,4535 (1,29); 7,4505 (0,76); 7,4086 (0,42); 7,3884 (0,56); 7,2850 (2,35); 7,2654 (3,36); 7,2387 (0,35); 7,1763 (4,31); 7,1700 (2,44); 7,1562 (3,05); 7,1507 (2,41); 6,8849 (0,45); 6,8674 (1,97); 6,8497 (1,99); 6,8320 (0,46); 5,3154 (6,26); 5,2630 (0,88); 3,3290 (62,14); 2,9998 (16,00); 2,9549 (2,24); 2,8905 (2,33); 2,7319 (1,82); 2,7313 (1,81); 2,5251 (0,74); 2,5201 (1,19); 2,5117 (13,15); 2,5072 (25,84); 2,5026 (33,70); 2,4980 (24,25); 2,4935 (11,40); 2,3602 (9,97); 2,3417 (1,53); 1,6974 (6,56); 1,6797 (6,47); 1,5052 (0,40); 1,4977 (0,43); 1,1423 (0,43); 1,1347 (0,41); 0,0080 (0,34); -0,0002 (9,54)
Ejemplo 398, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,7213 (2,08); 8,0266 (1,24); 8,0060 (1,60); 7,9532 (0,59); 7,8650 (1,33); 7,8457 (1,81); 7,8254 (1,15); 7,7276 (2,02); 7,7250 (2,61); 7,7212 (1,27); 7,7123 (0,83); 7,7072 (3,48); 7,7035 (2,39); 7,5673 (0,50); 7,5553 (0,38); 7,5490 (1,68); 7,5434 (0,49); 7,5340 (0,89); 7,5307 (1,43); 7,5273 (0,72); 7,4981 (2,39); 7,4947 (1,01); 7,4827 (1,73); 7,4790 (3,12); 7,4653 (0,51); 7,4613 (1,27); 7,4581 (0,70); 7,1950 (1,77); 7,1774 (1,72); 7,1591 (1,06); 7,1409 (1,15); 7,1175 (0,50); 7,1143 (0,46); 7,0983 (1,07); 7,0783 (0,68); 7,0752 (0,59); 6,8510 (0,93); 6,8327 (1,64); 6,8167 (2,06); 6,7977 (1,42); 5,3797 (5,98); 5,0599 (1,08); 5,0435 (1,08); 3,3321 (65,01); 3,0608 (0,76); 3,0520 (16,00); 2,8904 (4,79); 2,7320 (3,80); 2,7309 (3,73); 2,5252 (0,63); 2,5118 (12,29); 2,5073 (24,36); 2,5027 (31,90); 2,4981 (23,00); 2,4936 (10,86); 2,2186 (9,97); 1,5536 (5,61); 1,5372 (5,60); -0,0002 (4,58)
Ejemplo 399, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,0289 (2,45); 8,1728 (1,63); 8,1526 (1,96); 7,9463 (1,26); 7,9268 (1,80); 7,9067 (1,19); 7,8936 (1,28); 7,8910 (1,07); 7,8741 (1,59); 7,8716 (1,41); 7,8624 (0,97); 7,8588 (0,65); 7,8435 (0,78); 7,8376 (0,89); 7,8335 (0,66); 7,6017 (0,52); 7,5871 (0,65); 7,5815 (1,03); 7,5669 (1,09); 7,5620 (0,77); 7,5472 (0,68); 7,4857 (0,57); 7,4837 (0,62); 7,4792 (0,56); 7,4773 (0,55); 7,4623 (0,95); 7,4573 (0,88); 7,4432 (0,43); 7,4411 (0,46); 7,4368 (0,43); 7,4347 (0,41); 7,4278 (1,03); 7,4079 (2,19); 7,3878 (1,58); 7,2994 (1,45); 7,2982 (1,46); 7,2959 (1,30); 7,2825 (0,77); 7,2787 (1,19); 7,2765 (0,99); 7,2595 (1,82); 7,2541 (3,75); 7,2500 (1,65); 7,2363 (1,73); 7,1494 (1,04); 7,1476 (1,12); 7,1431 (0,98); 7,1412 (0,97); 7,1288 (0,92); 7,1269 (0,92); 7,1225 (0,88); 7,1206 (0,79); 5,4295 (5,89); 3,7900 (16,00); 3,3955 (0,36); 3,3456 (29,34); 3,0728 (14,83); 2,5598 (0,39); 2,5323 (0,66); 2,5187 (11,27); 2,5144 (22,95); 2,5099 (30,99); 2,5054 (22,33); 2,5011 (10,50); 1,9966 (0,95); 1,2494 (0,59); 1,1809 (0,52); 0,8632 (0,82); 0,8455 (0,32)
Ejemplo 400, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,2652 (2,65); 7,9532 (0,51); 7,8332 (0,58); 7,8167 (0,44); 7,8122 (2,01); 7,7962 (4,69); 7,7920 (2,88); 7,7755 (0,67); 7,7227 (2,71); 7,7189 (1,30); 7,7100 (0,83); 7,7050 (3,50); 7,7012 (2,41); 7,5618 (0,49); 7,5499 (0,36); 7,5434 (1,68); 7,5377 (0,49); 7,5285 (0,90); 7,5252 (1,45); 7,5218 (0,74); 7,4951 (2,48); 7,4918 (1,06); 7,4797 (1,68); 7,4760 (3,16); 7,4624 (0,49); 7,4583 (1,24); 7,4551 (0,69); 7,1102 (1,40); 7,1058 (1,42); 7,0940 (1,30); 7,0896 (1,32); 5,3309 (6,64); 4,2254 (2,02); 4,2167 (1,77); 4,2138 (2,33); 4,2101 (1,66); 4,2018 (2,14); 3,6070 (2,19); 3,5988 (1,70); 3,5950 (2,32); 3,5921 (1,75); 3,5834 (2,00); 3,4983 (1,51); 3,4808 (4,76); 3,4633 (4,82); 3,4458 (1,57); 3,3406 (100,43); 3,0718 (16,00); 2,8910 (4,19); 2,7316 (3,26); 2,5259 (0,50); 2,5126 (9,41); 2,5081 (18,75); 2,5035 (24,77); 2,4989 (18,10); 2,4944 (8,73); 1,1268 (4,89); 1,1093 (9,87); 1,0918 (4,78); -0,0002 (0,94)

Ejemplo 401, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6923 (2,12); 8,1675 (1,56); 8,1475 (1,87); 7,9531 (0,74); 7,9087 (1,25); 7,8894 (1,70); 7,8692 (1,19); 7,8525 (1,75); 7,8486 (1,79); 7,7784 (1,00); 7,7738 (0,87); 7,7589 (1,12); 7,7541 (0,99); 7,7393 (1,85); 7,7368 (2,47); 7,7328 (1,18); 7,7242 (0,71); 7,7190 (3,30); 7,7152 (2,27); 7,5668 (0,47); 7,5550 (0,33); 7,5484 (1,60); 7,5427 (0,45); 7,5336 (0,83); 7,5302 (1,39); 7,5268 (0,68); 7,5056 (0,43); 7,5004 (2,31); 7,4970 (0,96); 7,4851 (1,51); 7,4813 (2,96); 7,4678 (0,44); 7,4636 (1,20); 7,4603 (0,65); 7,2728 (1,66); 7,2529 (1,47); 7,2122 (1,71); 7,1945 (1,65); 5,4134 (5,91); 3,3294 (54,85); 3,0831 (16,00); 2,8904 (6,35); 2,7318 (4,93); 2,7309 (4,81); 2,5249 (0,62); 2,5201 (0,96); 2,5115 (12,18); 2,5070 (24,48); 2,5023 (32,36); 2,4977 (23,26); 2,4932 (10,91); 2,2935 (12,89); -0,0002 (1,32)
Ejemplo 402, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,6837 (2,17); 8,0205 (0,72); 8,0000 (0,94); 7,9529 (0,74); 7,8817 (1,31); 7,8624 (1,78); 7,8422 (1,10); 7,7283 (2,59); 7,7244 (1,27); 7,7156 (0,78); 7,7105 (3,40); 7,7068 (2,38); 7,5683 (0,48); 7,5564 (0,36); 7,5500 (1,61); 7,5443 (0,48); 7,5350 (0,87); 7,5317 (1,42); 7,5283 (0,73); 7,5005 (2,38); 7,4971 (1,03); 7,4851 (1,62); 7,4814 (3,05); 7,4678 (0,49); 7,4637 (1,22); 7,4605 (0,70); 7,3639 (0,36); 7,3549 (4,10); 7,3493 (1,24); 7,3380 (1,33); 7,3323 (4,70); 7,3234 (0,42); 7,2045 (1,75); 7,1867 (1,67); 7,0019 (0,42); 6,9930 (4,43); 6,9873 (1,29); 6,9760 (1,23); 6,9704 (3,94); 6,9614 (0,33); 5,3827 (6,08); 4,8101 (5,71); 3,3411 (108,47); 3,3105 (0,34); 3,0665 (16,00); 2,8907 (5,99); 2,7322 (4,69); 2,7312 (4,75); 2,5258 (0,62); 2,5210 (1,00); 2,5124 (12,35); 2,5079 (24,66); 2,5033 (32,54); 2,4987 (23,64); 2,4942 (11,28); -0,0002 (0,78)
Ejemplo 403, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1396 (0,34); 10,6020 (5,21); 8,0801 (2,66); 8,0593 (3,18); 7,8492 (2,85); 7,8298 (4,09); 7,8096 (2,63); 7,7252 (6,00); 7,7123 (1,93); 7,7074 (7,71); 7,7037 (5,56); 7,5767 (1,06); 7,5736 (0,73); 7,5649 (0,87); 7,5583 (3,73); 7,5527 (1,20); 7,5435 (2,08); 7,5402 (3,28); 7,5369 (1,73); 7,5109 (5,58); 7,4955 (3,81); 7,4917 (7,02); 7,4782 (1,16); 7,4741 (2,74); 7,4709 (1,62); 7,3007 (2,23); 7,2969 (1,10); 7,2818 (6,98); 7,2700 (2,13); 7,2645 (9,09); 7,2571 (7,02); 7,2528 (9,59); 7,2367 (4,30); 7,2202 (0,72); 7,1994 (1,65); 7,1950 (2,14); 7,1902 (1,44); 7,1779 (3,18); 7,1718 (1,01); 7,1655 (0,85); 7,1607 (1,19); 7,1566 (0,70); 7,1426 (4,24); 7,1247 (4,03); 5,3626 (14,12); 4,0441 (0,58); 4,0264 (0,60); 3,4953 (1,84); 3,4772 (6,19); 3,4590 (6,30); 3,4409 (1,93); 3,3931 (0,43); 3,3431 (44,47); 3,2933 (0,42); 2,9174 (2,61); 2,8991 (5,31); 2,8790 (4,02); 2,8387 (0,55); 2,8198 (1,09); 2,8007 (0,68); 2,7299 (4,19); 2,7096 (5,67); 2,6912 (2,75); 2,6835 (0,93); 2,6786 (0,97); 2,6742 (0,70); 2,5639 (1,08); 2,5597 (1,42); 2,5520 (1,40); 2,5321 (4,02); 2,5184 (48,43); 2,5141 (98,74); 2,5096 (132,35); 2,5051 (94,84); 2,5008 (44,47); 2,4641 (1,30); 2,4597 (1,50); 2,4554 (1,06); 2,3408 (0,60); 2,3365 (0,82); 2,3319 (0,59); 1,9969 (2,54); 1,3714 (0,45); 1,2858 (0,43); 1,2512 (1,99); 1,1990 (0,75); 1,1812 (1,36); 1,1634 (0,67); 1,0448 (7,07); 1,0363 (1,50); 1,0268 (16,00); 1,0085 (6,83); 0,8816 (0,93); 0,8648 (2,88); 0,8472 (1,13)
Ejemplo 404, Disolvente: DMSO, Espectrómetro: 399,95 MHz
10,5534 (2,01); 8,0729 (1,22); 8,0522 (1,45); 7,8401 (1,30); 7,8208 (1,76); 7,8006 (1,19); 7,7322 (0,35); 7,7264 (2,00); 7,7240 (2,61); 7,7201 (1,31); 7,7113 (0,84); 7,7062 (3,52); 7,7024 (2,38); 7,5648 (0,50); 7,5616 (0,32); 7,5529 (0,39); 7,5465 (1,65); 7,5408 (0,49); 7,5316 (0,88); 7,5283 (1,43); 7,5249 (0,73); 7,4974 (2,45); 7,4940 (1,05); 7,4820 (1,67); 7,4782 (3,09); 7,4647 (0,48); 7,4606 (1,22); 7,4573 (0,68); 7,1481 (1,77); 7,1305 (1,70); 5,3570 (6,23); 3,6704 (1,67); 3,6549 (4,26); 3,6391 (2,08); 3,3331 (49,99); 3,0551 (16,00); 2,8909 (0,91); 2,7321 (0,72); 2,5253 (0,68); 2,5203 (1,12); 2,5120 (11,22); 2,5075 (22,00); 2,5029 (28,85); 2,4983 (20,85); 2,4937 (9,84); 2,4414 (1,44); 2,4237 (2,88); 2,4066 (1,29); 1,7634 (0,38); 1,7563 (0,57); 1,7500 (0,59); 1,7402 (1,08); 1,7339 (1,04); 1,7256 (1,73); 1,7232 (1,86); 1,7171 (1,69); 1,7098 (1,67); 1,7064 (1,63); 1,6982 (0,90); 1,6920 (0,97); 1,6895 (0,96); 1,6802 (0,51); 1,6756 (0,44); 1,6695 (0,40); 0,8758 (0,41); -0,0002 (5,70)
Ejemplo 405, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3160 (6,78); 7,8533 (1,75); 7,8325 (4,32); 7,8148 (5,04); 7,8014 (6,46); 7,7829 (2,51); 7,6768 (6,98); 7,6588 (8,41); 7,6555 (6,62); 7,5450 (1,24); 7,5266 (4,04); 7,5086 (3,65); 7,4800 (6,49); 7,4607 (7,93); 7,4432 (3,06); 7,1375 (4,04); 7,1213 (3,91); 5,7628 (0,84); 5,7146 (0,63); 5,7002 (1,42); 5,6866 (1,08); 5,6732 (1,75); 5,6586 (1,71); 5,6455 (1,24); 5,6316 (1,73); 5,6172 (0,83); 5,3241 (16,00); 4,9940 (7,64); 4,9675 (3,49); 4,9519 (3,13); 4,1928 (5,00); 4,1762 (10,71); 4,1591 (9,33); 4,1408 (6,81); 4,0420 (0,33); 3,3307 (39,53); 3,3070 (2,64); 2,9096 (3,20); 2,9031 (6,76); 2,8966 (3,51); 2,6759 (0,36); 2,5735 (3,32); 2,5670 (3,62); 2,5569 (6,81); 2,5503 (6,79); 2,5403 (4,17); 2,5337 (4,19); 2,5107 (47,57); 2,5065 (62,01); 2,5024 (47,29); 2,3335 (0,43); 2,0786 (0,64); 1,9935 (1,09); 1,2831 (0,70); 1,2497 (2,51); 1,1964 (0,38); 1,1787 (0,61); 1,1609 (0,33); 0,8785 (1,09); 0,8709 (0,93); 0,8620 (2,78); 0,8444 (1,25)
Ejemplo 406, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2539 (0,81); 7,8730 (0,64); 7,8671 (0,67); 7,8597 (1,50); 7,6428 (0,64); 7,6402 (0,60); 7,5831 (0,32); 7,1711 (0,34); 7,1636 (0,34); 7,1503 (0,33); 5,8222 (0,93); 5,4111 (1,74); 4,1580 (0,52); 4,1413 (1,13); 4,1245 (0,53); 3,4038 (16,00); 3,1203 (4,23); 2,5728 (2,56); 2,5685 (5,38); 2,5640 (7,36); 2,5595 (5,31); 2,5552 (2,49); 1,6679 (0,39); 1,3915 (0,48); 1,3839 (0,98); 1,3749 (0,74); 1,3659 (0,65); 0,9568 (0,49); 0,9394 (1,34); 0,9216 (0,41)
Ejemplo 407, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8766 (0,83); 8,0274 (0,58); 8,0071 (0,73); 7,8498 (0,46); 7,8305 (0,64); 7,8103 (0,40); 7,4234 (0,37); 7,4035 (0,80); 7,3834 (0,57); 7,2852 (0,53); 7,2830 (0,47); 7,2657 (0,43); 7,2635 (0,35); 7,2446 (0,57); 7,2388 (0,73); 7,2346 (0,51); 7,1584 (0,67); 7,1440 (0,55); 7,1401 (0,99); 7,1257 (0,35); 7,1239 (0,34); 7,1194 (0,33); 5,3862 (2,20); 3,7878 (5,76); 3,3441 (14,78); 3,0656 (5,35); 2,5319 (0,41); 2,5186 (5,93); 2,5143 (11,80); 2,5099 (15,73); 2,5054 (11,28); 2,5011 (5,31); 1,2390 (16,00)
Ejemplo 410, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,7340 (3,19); 7,7162 (3,95); 7,7125 (2,78); 7,5658 (0,63); 7,5543 (0,55); 7,5475 (2,12); 7,5416 (0,66); 7,5327 (1,26); 7,5293 (1,89); 7,5259 (0,95); 7,5026 (3,16); 7,4874 (2,23); 7,4836 (3,92); 7,4701 (0,67); 7,4660 (1,58); 7,4626 (0,88); 7,3214 (0,66); 5,7573 (1,04); 5,3255 (5,92); 4,4343 (0,84); 3,4826 (0,32); 3,4596 (0,70); 3,4511 (0,36); 3,4434 (0,38); 3,4089 (16,00); 3,3931 (2,39); 3,3590 (1431,96); 3,3092 (15,32); 3,2880 (0,55); 3,2766 (0,48); 3,2700 (0,33); 3,2601 (0,65); 3,0287 (15,76); 2,6776 (0,63); 2,6730 (0,82); 2,6684 (0,60); 2,5583 (1,05); 2,5537 (1,42); 2,5494 (1,07); 2,5262 (2,40); 2,5128 (52,34); 2,5084 (105,57); 2,5039 (140,95); 2,4995 (100,24); 2,4951 (46,94); 2,4587 (1,33); 2,4540 (1,62); 2,4496 (1,24); 2,3351 (0,67); 2,3306 (0,88); 2,3262 (0,65); 1,6967 (0,98); 1,4294 (0,74); 1,4123 (1,33); 1,3936 (1,32); 1,3749 (0,77);

1,2340 (0,36); 0,9333 (4,56); 0,9150 (9,21); 0,8964 (3,99); -0,0002 (2,70)
Ejemplo 416, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6661 (0,70); 7,6572 (0,72); 7,6498 (1,01); 7,6463 (0,99); 7,6407 (1,73); 7,6269 (1,33); 7,6212 (1,32); 7,6142 (1,04); 7,6031 (0,75); 7,5947 (0,69); 7,3986 (0,81); 7,3919 (3,33); 7,3785 (2,97); 7,3706 (8,67); 7,3610 (6,61); 7,3532 (7,71); 7,3396 (0,62); 6,4579 (4,46); 6,4401 (4,29); 6,3782 (4,59); 6,3578 (4,47); 6,0313 (0,38); 5,9906 (7,71); 5,7606 (0,92); 5,2246 (0,60); 5,1700 (16,00); 4,0378 (0,38); 4,0200 (0,39); 3,4003 (0,38); 3,3850 (0,48); 3,3506 (37,42); 3,3353 (40,85); 3,3010 (0,53); 3,2857 (0,54); 3,2129 (1,21); 2,5527 (0,39); 2,5253 (0,70); 2,5118 (15,44); 2,5074 (31,58); 2,5030 (42,53); 2,4985 (30,35); 2,4942 (14,22); 2,4623 (0,33); 2,4579 (0,49); 2,4534 (0,56); 2,4488 (0,37); 1,9898 (1,70); 1,1923 (0,47); 1,1745 (0,91); 1,1568 (0,46); -0,0002 (4,74)
Ejemplo 417, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1117 (2,91); 7,8366 (0,35); 7,8154 (2,25); 7,8083 (2,37); 7,8015 (5,52); 7,7873 (0,42); 7,6835 (0,58); 7,6796 (0,68); 7,6743 (0,38); 7,6637 (0,42); 7,6587 (0,66); 7,6544 (0,57); 7,5521 (0,58); 7,5484 (0,39); 7,5360 (0,93); 7,5321 (0,99); 7,5162 (0,68); 7,3833 (0,42); 7,3796 (0,44); 7,3708 (0,42); 7,3671 (0,49); 7,3628 (0,66); 7,3592 (0,67); 7,3502 (0,62); 7,3469 (0,66); 7,3427 (0,35); 7,1168 (1,28); 7,1100 (1,26); 7,1029 (1,09); 7,0961 (1,23); 5,3771 (6,26); 4,6774 (0,38); 4,6647 (0,42); 4,6548 (0,71); 4,6453 (0,51); 4,6322 (0,34); 3,4011 (2,49); 3,3700 (0,51); 3,3509 (185,01); 3,3006 (1,44); 3,1931 (16,00); 2,5581 (0,40); 2,5304 (0,44); 2,5256 (0,73); 2,5169 (10,75); 2,5125 (22,54); 2,5080 (30,69); 2,5035 (21,63); 2,4990 (9,87); 1,8775 (0,68); 1,8646 (0,79); 1,8514 (0,82); 1,8457 (0,82); 1,7337 (0,68); 1,7241 (0,74); 1,7105 (0,78); 1,7033 (0,73); 1,5281 (0,35); 1,5188 (0,37); 1,4985 (0,42); 1,4331 (0,79); 1,4083 (1,04); 1,3840 (1,15); 1,3578 (0,93); 1,3513 (0,71); 1,3320 (0,69); 1,3257 (0,79); 1,2997 (0,40); 1,2754 (0,34); 1,2458 (0,53)
Ejemplo 420, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5177 (1,98); 8,0906 (1,25); 8,0699 (1,48); 7,8464 (1,24); 7,8272 (1,69); 7,8069 (1,15); 7,6862 (0,58); 7,6823 (0,66); 7,6769 (0,37); 7,6664 (0,41); 7,6610 (0,64); 7,6569 (0,55); 7,5498 (0,32); 7,5460 (0,57); 7,5423 (0,38); 7,5300 (0,92); 7,5261 (0,99); 7,5138 (0,45); 7,5101 (0,69); 7,3844 (0,46); 7,3807 (0,47); 7,3719 (0,45); 7,3681 (0,49); 7,3639 (0,66); 7,3603 (0,67); 7,3513 (0,64); 7,3480 (0,65); 7,3436 (0,34); 7,1635 (1,74); 7,1461 (1,67); 5,4045 (6,13); 4,0421 (0,67); 4,0243 (0,68); 3,3924 (0,88); 3,3424 (77,23); 3,2925 (0,82); 3,1764 (16,00); 2,5304 (0,40); 2,5256 (0,66); 2,5169 (9,30); 2,5125 (19,45); 2,5080 (26,44); 2,5035 (18,66); 2,4990 (8,55); 2,4075 (1,74); 2,3892 (3,15); 2,3705 (1,92); 1,9943 (3,03); 1,5952 (0,45); 1,5770 (1,28); 1,5582 (1,78); 1,5400 (1,32); 1,5208 (0,55); 1,3307 (1,06); 1,3117 (1,65); 1,2930 (1,68); 1,2748 (1,04); 1,1968 (0,85); 1,1790 (1,70); 1,1612 (0,83); 0,9046 (4,01); 0,8864 (8,31); 0,8679 (3,39)
Ejemplo 442, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5729 (2,54); 7,6843 (1,28); 7,6818 (2,35); 7,6792 (1,44); 7,6636 (2,21); 7,6618 (2,12); 7,6252 (0,49); 7,6156 (4,44); 7,6131 (4,76); 7,6066 (3,50); 7,6052 (3,44); 7,6030 (3,29); 7,5993 (2,30); 7,5827 (0,39); 7,5791 (0,37); 7,5308 (1,54); 7,5219 (1,39); 7,5179 (1,15); 7,5117 (1,39); 7,5091 (1,21); 7,5038 (1,15); 7,4978 (0,97); 7,4899 (0,84); 7,4050 (5,45); 7,0215 (1,58); 7,0200 (1,56); 7,0025 (2,18); 7,0003 (2,04); 6,9469 (0,32); 6,9258 (0,70); 6,9207 (1,10); 6,9131 (1,20); 6,9056 (1,32); 6,8982 (2,05); 6,8941 (0,82); 6,8861 (1,16); 6,8818 (1,70); 6,8789 (2,45); 6,8689 (6,04); 6,8643 (4,65); 6,8532 (1,58); 6,8490 (1,86); 6,8458 (1,21); 6,8400 (0,72); 6,8355 (0,63); 6,8294 (0,39); 6,8236 (0,41); 5,7632 (16,00); 5,3970 (7,78); 5,1698 (1,47); 5,1616 (2,59); 5,1515 (1,50); 5,0500 (0,32); 5,0416 (0,55); 5,0342 (0,34); 4,4778 (0,39); 4,4674 (0,34); 4,4480 (2,63); 4,4411 (3,44); 4,4380 (3,33); 4,4334 (3,02); 4,4121 (0,82); 4,4035 (0,69); 4,2844 (0,43); 4,2773 (0,43); 4,2553 (0,33); 4,2483 (0,33); 3,4069 (2,55); 3,3569 (173,53); 3,3071 (2,33); 3,2639 (0,47); 3,2139 (21,67); 2,6774 (0,36); 2,5628 (0,49); 2,5583 (0,67); 2,5538 (0,49); 2,5307 (0,97); 2,5172 (22,00); 2,5128 (45,68); 2,5083 (61,93); 2,5038 (44,10); 2,4994 (20,54); 2,4674 (0,37); 2,4629 (0,57); 2,4585 (0,72); 2,4539 (0,53); 2,3351 (0,40)
Ejemplo 444, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1810 (2,80); 7,8181 (2,56); 7,8134 (2,63); 7,8054 (5,69); 7,7925 (0,45); 7,7299 (0,60); 7,7257 (0,69); 7,7109 (1,14); 7,7065 (1,41); 7,6907 (0,69); 7,6868 (0,75); 7,6549 (0,36); 7,6505 (0,36); 7,6414 (0,42); 7,6366 (0,77); 7,6338 (0,61); 7,6321 (0,60); 7,6296 (0,52); 7,6217 (0,74); 7,6183 (0,64); 7,6157 (0,82); 7,6110 (0,48); 7,6019 (0,52); 7,5975 (0,45); 7,3961 (0,82); 7,3941 (0,90); 7,3751 (0,84); 7,3727 (0,97); 7,3679 (2,29); 7,3505 (1,85); 7,3480 (2,05); 7,3445 (0,95); 7,3320 (0,97); 7,3293 (0,81); 7,1218 (1,28); 7,1137 (1,33); 7,1092 (1,11); 7,1011 (1,26); 5,3642 (6,35); 4,1042 (1,90); 4,0874 (4,16); 4,0707 (1,98); 3,4274 (7,09); 3,4174 (0,61); 3,3778 (477,76); 3,3546 (4,45); 3,3452 (1,68); 3,3280 (8,75); 3,3155 (1,05); 3,1925 (16,00); 2,5576 (0,34); 2,5305 (0,76); 2,5257 (1,12); 2,5172 (10,43); 2,5127 (21,52); 2,5082 (29,41); 2,5037 (21,37); 2,4992 (10,64); 2,4677 (0,37); 2,4630 (0,47); 2,4584 (0,55); 2,4539 (0,42); 1,6310 (0,86); 1,6139 (1,40); 1,6083 (0,94); 1,5967 (1,04); 1,5798 (0,37); 1,3464 (1,11); 1,3436 (1,07); 1,3359 (1,79); 1,3284 (3,68); 1,3196 (2,75); 1,3104 (2,57); 1,2585 (0,32); 0,9005 (1,82); 0,8941 (1,10); 0,8831 (5,10); 0,8716 (1,24); 0,8651 (1,56)
Ejemplo 449, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5144 (2,11); 8,1062 (1,48); 8,0856 (1,80); 7,8463 (1,28); 7,8270 (1,81); 7,8131 (0,35); 7,8067 (1,27); 7,7266 (0,62); 7,7224 (0,70); 7,7074 (1,16); 7,7032 (1,39); 7,6872 (0,61); 7,6834 (0,71); 7,6579 (0,36); 7,6536 (0,36); 7,6444 (0,42); 7,6396 (0,78); 7,6369 (0,66); 7,6246 (0,69); 7,6214 (0,70); 7,6188 (0,83); 7,6141 (0,47); 7,6049 (0,47); 7,6006 (0,42); 7,3978 (0,97); 7,3766 (0,95); 7,3706 (2,60); 7,3506 (2,78); 7,3332 (0,93); 7,3307 (0,81); 7,1678 (1,83); 7,1501 (1,76); 5,3952 (6,38); 5,3592 (0,36); 3,4051 (3,56); 3,3552 (250,07); 3,3152 (0,86); 3,3053 (2,59); 3,1977 (0,93); 3,1820 (16,00); 2,6938 (0,54); 2,6773 (0,70); 2,6628 (0,39); 2,5581 (0,37); 2,5306 (0,43); 2,5171 (10,44); 2,5127 (21,58); 2,5082 (29,22); 2,5038 (20,80); 2,4994 (9,69); 1,5945 (0,47); 1,5899 (0,40); 1,5804 (0,48); 1,5739 (0,56); 1,5686 (0,41); 1,5591 (0,55); 1,3328 (0,41); 1,3210 (0,50); 1,3149 (0,39); 1,3076 (0,76); 1,3029 (0,59); 1,2937 (0,84); 1,2881 (0,96); 1,2737 (1,49); 1,2599 (1,58); 1,2538 (1,55); 1,2444 (1,63); 1,2389 (1,27); 1,2256 (0,49); 1,2211 (0,53); 1,2136 (0,37); 1,0708 (6,10); 1,0538 (6,09); 0,8836 (2,90); 0,8657 (5,89); 0,8477 (2,34)
Ejemplo 460, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8085 (1,01); 8,1598 (1,38); 7,7943 (0,33); 7,7736 (0,65); 7,7552 (0,64); 7,7280 (0,92); 7,7072 (0,43); 7,5742 (0,32); 7,3320 (0,36); 7,3130 (0,46); 7,3082 (0,34); 7,3009 (0,62); 7,2990 (0,64); 7,2891 (0,36); 7,2790 (0,44); 7,2649 (3,66); 7,2626 (3,50); 7,1349 (0,56); 7,1170 (0,55); 5,2629 (2,06); 5,2442 (0,60); 4,0426 (0,47); 4,0247 (0,48); 2,5628 (0,36); 2,5583 (0,43); 2,5305 (0,69); 2,5170 (11,70); 2,5127 (23,94); 2,5082

(32,26); 2,5038 (23,18); 2,4995 (10,88); 1,9948 (1,61); 1,4828 (0,57); 1,4639 (16,00); 1,3390 (0,76); 1,2383 (0,53); 1,1973 (0,45); 1,1795 (0,87); 1,1617 (0,43)
Ejemplo 464, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5149 (2,05); 8,0915 (1,24); 8,0708 (1,47); 7,8463 (1,24); 7,8270 (1,69); 7,8068 (1,16); 7,6858 (0,58); 7,6819 (0,67); 7,6766 (0,38); 7,6661 (0,41); 7,6611 (0,64); 7,6566 (0,56); 7,6400 (0,32); 7,5497 (0,33); 7,5459 (0,58); 7,5422 (0,39); 7,5299 (0,93); 7,5260 (0,99); 7,5136 (0,45); 7,5100 (0,69); 7,3841 (0,48); 7,3804 (0,48); 7,3715 (0,46); 7,3678 (0,50); 7,3634 (0,66); 7,3599 (0,68); 7,3509 (0,64); 7,3475 (0,66); 7,3434 (0,35); 7,1638 (1,76); 7,1464 (1,67); 7,1452 (1,65); 5,4044 (6,09); 4,0421 (0,96); 4,0243 (0,98); 4,0065 (0,32); 3,3926 (0,75); 3,3426 (74,92); 3,2928 (0,83); 3,1761 (16,00); 2,5305 (0,35); 2,5257 (0,59); 2,5170 (8,84); 2,5125 (18,52); 2,5080 (25,27); 2,5035 (17,91); 2,4990 (8,28); 2,3976 (1,63); 2,3793 (3,06); 2,3607 (1,79); 1,9943 (4,35); 1,6128 (0,34); 1,5942 (1,04); 1,5758 (1,46); 1,5578 (1,01); 1,5396 (0,35); 1,3240 (0,36); 1,3086 (0,78); 1,2917 (1,62); 1,2842 (2,50); 1,2769 (2,04); 1,2664 (1,65); 1,2575 (1,21); 1,2468 (0,66); 1,2394 (0,48); 1,1968 (1,23); 1,1790 (2,42); 1,1612 (1,20); 0,8845 (2,40); 0,8674 (6,29); 0,8497 (2,53)
Ejemplo 480, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5120 (2,13); 8,0883 (1,33); 8,0675 (1,61); 7,8429 (1,24); 7,8235 (1,79); 7,8034 (1,26); 7,7253 (0,60); 7,7211 (0,68); 7,7061 (1,13); 7,7019 (1,41); 7,6859 (0,66); 7,6822 (0,76); 7,6564 (0,37); 7,6521 (0,37); 7,6429 (0,42); 7,6381 (0,78); 7,6354 (0,69); 7,6232 (0,75); 7,6198 (0,71); 7,6173 (0,85); 7,6126 (0,50); 7,6034 (0,48); 7,5991 (0,44); 7,3963 (0,95); 7,3751 (0,97); 7,3695 (2,52); 7,3494 (2,60); 7,3327 (0,96); 7,3302 (0,81); 7,1621 (1,83); 7,1443 (1,75); 5,7601 (2,18); 5,3896 (6,41); 3,4083 (1,59); 3,3580 (127,96); 3,3120 (0,85); 3,3081 (1,79); 3,1982 (0,60); 3,1790 (16,00); 2,5167 (5,65); 2,5124 (11,37); 2,5079 (15,19); 2,5035 (10,91); 2,4992 (5,18); 2,4164 (0,34); 2,4071 (1,83); 2,3889 (3,28); 2,3702 (1,98); 1,5951 (0,46); 1,5769 (1,34); 1,5581 (1,88); 1,5397 (1,41); 1,5207 (0,57); 1,3301 (1,09); 1,3112 (1,76); 1,2924 (1,77); 1,2742 (1,06); 1,2589 (0,62); 1,2433 (0,54); 0,9031 (3,97); 0,8848 (8,04); 0,8664 (3,35); 0,7719 (0,53)
Ejemplo 481, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1354 (3,63); 7,6863 (1,77); 7,6839 (3,15); 7,6813 (1,94); 7,6657 (2,98); 7,6640 (2,88); 7,6223 (0,63); 7,6130 (6,12); 7,6104 (6,40); 7,6038 (4,90); 7,6023 (4,91); 7,6005 (4,72); 7,5968 (3,22); 7,5801 (0,54); 7,5766 (0,51); 7,5407 (0,43); 7,5297 (2,12); 7,5205 (1,92); 7,5170 (1,59); 7,5105 (1,95); 7,5079 (1,63); 7,5025 (1,57); 7,4969 (1,34); 7,4888 (1,20); 7,2990 (8,24); 5,3716 (11,47); 4,0415 (0,41); 4,0237 (0,41); 3,4112 (0,57); 3,4046 (3,66); 3,3904 (0,45); 3,3547 (297,76); 3,3048 (3,10); 3,2635 (0,41); 3,2136 (29,99); 2,5624 (0,43); 2,5579 (0,57); 2,5533 (0,42); 2,5304 (0,77); 2,5169 (16,75); 2,5125 (34,20); 2,5080 (45,90); 2,5035 (32,38); 2,4990 (14,91); 2,4626 (0,45); 2,4579 (0,58); 2,4535 (0,51); 2,4428 (3,59); 2,4245 (6,31); 2,4057 (3,93); 1,9937 (1,83); 1,6132 (0,89); 1,5949 (2,58); 1,5905 (1,24); 1,5762 (3,50); 1,5577 (2,66); 1,5387 (1,12); 1,3472 (0,62); 1,3286 (2,09); 1,3097 (3,33); 1,2910 (3,44); 1,2728 (2,26); 1,2543 (1,20); 1,2490 (1,22); 1,1961 (0,56); 1,1783 (1,02); 1,1605 (0,51); 0,9016 (7,73); 0,8833 (16,00); 0,8648 (6,91); 0,8611 (2,73); 0,8432 (1,04)
Ejemplo 493, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,5522 (2,06); 7,6803 (3,75); 7,6777 (2,34); 7,6621 (3,55); 7,6602 (3,42); 7,6238 (0,78); 7,6142 (7,21); 7,6117 (7,59); 7,6052 (5,61); 7,6014 (5,09); 7,5977 (3,66); 7,5811 (0,63); 7,5775 (0,71); 7,5390 (0,52); 7,5277 (2,56); 7,5189 (2,26); 7,5147 (1,86); 7,5086 (2,32); 7,5060 (2,00); 7,5009 (1,88); 7,4946 (1,62); 7,4869 (1,47); 7,4742 (0,32); 7,4653 (0,32); 7,3691 (10,44); 7,3166 (0,70); 7,3107 (4,17); 7,3055 (1,91); 7,2991 (2,41); 7,2922 (6,41); 7,2891 (6,51); 7,2808 (2,88); 7,2770 (3,47); 7,2706 (5,57); 7,2644 (1,46); 7,2591 (2,02); 6,9692 (2,45); 6,9508 (4,41); 6,9365 (2,15); 6,9324 (3,27); 6,9265 (6,15); 6,9241 (7,08); 6,9189 (2,74); 6,9046 (6,50); 6,8958 (0,92); 6,8721 (1,91); 6,8696 (2,30); 6,8501 (2,05); 6,8480 (1,68); 5,7594 (16,00); 5,3876 (12,97); 5,2756 (0,34); 5,0820 (1,00); 5,0655 (3,48); 5,0490 (3,48); 5,0324 (0,97); 4,8317 (0,35); 4,8148 (1,18); 4,7978 (1,19); 4,7809 (0,37); 3,7201 (0,33); 3,4243 (4,78); 3,3745 (216,51); 3,3264 (4,65); 3,2665 (0,91); 3,2163 (35,02); 3,1665 (0,49); 3,0693 (0,41); 2,8342 (0,35); 2,6816 (0,32); 2,6771 (0,45); 2,6725 (0,34); 2,5627 (0,60); 2,5582 (0,78); 2,5537 (0,53); 2,5304 (1,08); 2,5256 (1,83); 2,5169 (26,82); 2,5125 (56,25); 2,5080 (76,63); 2,5035 (54,45); 2,4991 (25,21); 2,4674 (0,52); 2,4629 (0,71); 2,4583 (0,78); 2,4538 (0,51); 2,3393 (0,33); 2,3349 (0,47); 2,3302 (0,35); 1,9929 (1,17); 1,5613 (12,89); 1,5448 (13,20); 1,5181 (0,50); 1,5052 (5,79); 1,4882 (5,66); 1,2371 (0,52); 1,1954 (0,35); 1,1776 (0,65); 1,1598 (0,33)
Ejemplo 499, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,9277 (4,49); 7,6901 (4,46); 7,6877 (2,89); 7,6718 (4,46); 7,6704 (4,25); 7,6192 (0,96); 7,6102 (8,62); 7,6077 (9,21); 7,5988 (8,49); 7,5945 (4,78); 7,5777 (0,67); 7,5742 (0,66); 7,5382 (0,64); 7,5273 (2,96); 7,5177 (2,87); 7,5151 (2,48); 7,5081 (2,83); 7,5056 (2,41); 7,4997 (2,26); 7,4948 (1,95); 7,4864 (1,64); 7,3081 (11,76); 5,7619 (7,50); 5,3377 (16,00); 4,2889 (0,49); 4,2726 (0,33); 4,2568 (5,17); 4,2405 (11,56); 4,2242 (5,38); 3,4191 (0,55); 3,4134 (0,51); 3,4078 (3,57); 3,3872 (0,48); 3,3578 (290,56); 3,3254 (0,53); 3,3079 (2,91); 3,2915 (0,61); 3,2416 (40,76); 3,1915 (0,56); 3,1884 (0,70); 2,9337 (3,59); 2,9271 (8,15); 2,9205 (3,78); 2,6071 (3,14); 2,6005 (3,29); 2,5908 (6,69); 2,5842 (6,51); 2,5745 (3,35); 2,5679 (3,14); 2,5584 (0,83); 2,5540 (0,67); 2,5380 (0,50); 2,5309 (0,99); 2,5171 (15,11); 2,5128 (30,62); 2,5083 (41,00); 2,5038 (29,40); 2,4995 (13,88); 2,4628 (0,41); 2,4585 (0,47); 2,4540 (0,35); 1,9936 (1,06); 1,1779 (0,58)
Ejemplo 508, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,6971 (0,71); 7,6934 (0,75); 7,6763 (1,46); 7,6728 (1,69); 7,6675 (0,93); 7,6565 (1,04); 7,6514 (1,65); 7,6305 (0,77); 7,6270 (0,75); 7,5544 (1,38); 7,5383 (2,26); 7,5346 (2,37); 7,5185 (1,62); 7,4095 (2,84); 7,3911 (3,87); 7,3893 (3,82); 7,3810 (1,20); 7,3774 (1,28); 7,3707 (3,72); 7,3651 (1,37); 7,3606 (1,72); 7,3572 (1,69); 7,3478 (1,63); 7,3449 (1,68); 7,3366 (0,81); 7,3273 (0,73); 7,3245 (0,72); 6,5282 (4,45); 6,5105 (4,26); 6,4053 (4,50); 6,3848 (4,33); 6,0324 (7,56); 5,7609 (1,95); 5,2252 (16,00); 4,0204 (0,32); 3,3866 (0,69); 3,3361 (45,64); 3,2858 (0,58); 3,2638 (0,51); 3,2134 (34,60); 3,1630 (0,46); 2,9992 (0,44); 2,5586 (0,39); 2,5542 (0,53); 2,5497 (0,39); 2,5121 (15,31); 2,5081 (30,66); 2,5037 (40,81); 2,4993 (29,29); 2,4579 (0,41); 2,4534 (0,51); 2,4489 (0,36); 1,9903 (1,39); 1,2789 (0,45); 1,2453 (2,12); 1,1928 (0,44); 1,1750 (0,74); 1,1572 (0,37); 0,8748 (0,95); 0,8580 (2,85); 0,8404 (1,17); -0,0002 (5,13)
Ejemplo 510, Disolvente: DMSO, Espectrómetro: 400,13 MHz
7,8076 (0,58); 7,7990 (0,35); 7,7956 (0,33); 7,7338 (1,50); 7,7296 (1,66); 7,7147 (2,92); 7,7104 (3,29); 7,6947 (1,70); 7,6909 (1,72); 7,6457 (0,89); 7,6415 (0,89); 7,6321 (1,11); 7,6274 (1,95); 7,6248 (1,72); 7,6126 (1,82); 7,6092 (1,75); 7,6067 (2,02); 7,6020 (1,20); 7,5928 (1,16);

7,5885 (1,00); 7,5825 (0,35); 7,5790 (0,36); 7,4060 (2,96); 7,3877 (6,18); 7,3668 (6,66); 7,3460 (4,65); 7,3447 (4,64); 7,3277 (2,16); 7,3252 (1,85); 6,5268 (4,43); 6,5091 (4,24); 6,4031 (4,49); 6,3827 (4,29); 6,0269 (7,18); 5,9794 (0,51); 5,7555 (12,51); 5,3534 (0,71); 5,2080 (16,00); 5,1456 (0,70); 3,4050 (1,11); 3,3901 (0,72); 3,3537 (88,85); 3,3129 (0,65); 3,3041 (1,48); 3,2646 (0,43); 3,2135 (34,42); 3,1926 (1,86); 3,1638 (0,55); 3,1483 (0,33); 2,5057 (22,11); 2,5013 (28,75); 2,4970 (21,00); 2,4606 (0,32); 2,4560 (0,41); 2,4516 (0,45); 1,9867 (1,17); 1,5305 (2,66); 1,3700 (1,17); 1,3544 (1,16); 1,2528 (1,57); 1,2372 (1,62); 1,1889 (0,35); 1,1711 (0,65); 1,1533 (0,33)
Ejemplo 512, Disolvente: CDCl3, Espectrómetro: 300,16 MHz
7,6104 (2,40); 7,6053 (1,28); 7,5941 (0,85); 7,5874 (3,11); 7,5821 (2,41); 7,4879 (0,37); 7,4632 (1,44); 7,4550 (0,50); 7,4446 (0,99); 7,4398 (1,50); 7,4349 (0,83); 7,4170 (2,71); 7,3971 (1,53); 7,3918 (2,74); 7,3745 (0,52); 7,3689 (1,00); 7,3634 (0,63); 7,2621 (3,61); 6,9361 (4,17); 5,3797 (7,09); 3,3237 (2,13); 3,2992 (3,25); 3,2745 (2,30); 3,0246 (16,00); 1,7509 (0,48); 1,7274 (1,18); 1,7020 (1,98); 1,6940 (0,95); 1,6776 (1,39); 1,6519 (0,71); 1,5092 (0,36); 1,4846 (1,13); 1,4595 (1,71); 1,4341 (1,70); 1,4101 (1,04); 1,3862 (0,36); 1,3052 (1,25); 1,2531 (1,10); 0,9659 (3,84); 0,9416 (7,60); 0,9171 (3,27); -0,0002 (2,05)
Ejemplo 513, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,5079 (2,05); 8,0859 (1,25); 8,0652 (1,51); 7,8428 (1,24); 7,8236 (1,72); 7,8032 (1,24); 7,7233 (0,60); 7,7190 (0,68); 7,7042 (1,09); 7,6999 (1,35); 7,6839 (0,63); 7,6801 (0,70); 7,6564 (0,36); 7,6520 (0,36); 7,6429 (0,41); 7,6380 (0,76); 7,6354 (0,62); 7,6336 (0,60); 7,6312 (0,52); 7,6231 (0,71); 7,6197 (0,63); 7,6172 (0,79); 7,6125 (0,44); 7,6034 (0,45); 7,5990 (0,39); 7,3959 (0,92); 7,3747 (0,92); 7,3692 (2,44); 7,3491 (2,44); 7,3325 (0,93); 7,3299 (0,76); 7,1614 (1,74); 7,1440 (1,68); 5,3873 (6,13); 3,4294 (6,56); 3,4165 (0,47); 3,4126 (0,48); 3,4078 (0,68); 3,3795 (451,85); 3,3544 (1,07); 3,3478 (0,56); 3,3449 (0,47); 3,3384 (0,35); 3,3297 (5,58); 3,3100 (0,76); 3,1961 (0,72); 3,1769 (16,00); 2,5579 (0,33); 2,5304 (0,40); 2,5255 (0,72); 2,5169 (9,83); 2,5125 (20,41); 2,5080 (27,65); 2,5035 (19,57); 2,4990 (9,03); 2,4581 (0,33); 2,3954 (1,65); 2,3770 (3,07); 2,3584 (1,79); 1,6111 (0,33); 1,5925 (1,02); 1,5741 (1,45); 1,5562 (1,01); 1,5379 (0,34); 1,3218 (0,35); 1,3059 (0,77); 1,2896 (1,63); 1,2823 (2,54); 1,2749 (2,08); 1,2643 (1,74); 1,2579 (1,66); 1,2426 (1,10); 0,8822 (2,38); 0,8651 (6,24); 0,8475 (2,53); 0,7930 (0,33)
Ejemplo 519, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7891 (2,69); 7,6904 (1,74); 7,6881 (3,03); 7,6856 (1,88); 7,6698 (2,90); 7,6682 (2,75); 7,6295 (0,53); 7,6269 (0,69); 7,6203 (1,05); 7,6117 (5,99); 7,6092 (6,15); 7,6022 (4,81); 7,6004 (5,39); 7,5958 (3,35); 7,5791 (0,42); 7,5756 (0,41); 7,5389 (0,45); 7,5280 (2,12); 7,5186 (1,96); 7,5157 (1,58); 7,5088 (1,91); 7,5063 (1,57); 7,5006 (1,51); 7,4954 (1,31); 7,4871 (1,11); 7,2904 (8,13); 7,2392 (0,69); 5,4325 (0,74); 5,3335 (10,81); 4,2500 (0,59); 4,1799 (3,66); 4,1634 (7,84); 4,1468 (3,74); 4,0693 (0,61); 3,4046 (5,19); 3,3914 (0,38); 3,3814 (0,61); 3,3547 (404,79); 3,3344 (1,04); 3,3229 (0,54); 3,3150 (0,34); 3,3047 (4,39); 3,2843 (0,43); 3,2345 (28,39); 3,1929 (2,23); 3,1846 (0,38); 2,6772 (0,34); 2,5627 (0,45); 2,5582 (0,64); 2,5537 (0,45); 2,5307 (0,81); 2,5259 (1,37); 2,5172 (20,14); 2,5128 (42,22); 2,5083 (57,50); 2,5038 (40,91); 2,4994 (19,00); 2,4675 (0,35); 2,4629 (0,54); 2,4584 (0,65); 2,4540 (0,48); 2,3350 (0,37); 1,9942 (0,96); 1,6517 (0,79); 1,6346 (2,47); 1,6280 (0,95); 1,6170 (3,20); 1,5975 (2,85); 1,5810 (1,38); 1,4156 (0,58); 1,3970 (2,04); 1,3780 (3,27); 1,3591 (3,36); 1,3409 (2,07); 1,3226 (0,66); 1,2811 (0,44); 1,2491 (1,92); 1,1967 (0,33); 1,1788 (0,55); 0,9310 (7,70); 0,9126 (16,00); 0,8941 (6,74); 0,8797 (1,73); 0,8708 (0,80); 0,8618 (3,82); 0,8442 (1,70)
Ejemplo 525, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3136 (2,88); 7,8476 (0,58); 7,8266 (1,98); 7,8102 (4,65); 7,8058 (2,87); 7,7890 (0,77); 7,7846 (0,40); 7,7313 (0,61); 7,7271 (0,70); 7,7123 (1,18); 7,7079 (1,45); 7,6922 (0,68); 7,6883 (0,74); 7,6544 (0,34); 7,6500 (0,35); 7,6408 (0,42); 7,6360 (0,77); 7,6332 (0,63); 7,6212 (0,73); 7,6153 (0,83); 7,6105 (0,46); 7,6014 (0,51); 7,5972 (0,44); 7,3935 (0,94); 7,3675 (2,23); 7,3501 (1,89); 7,3482 (2,01); 7,3318 (0,92); 7,3293 (0,78); 7,1370 (1,39); 7,1328 (1,42); 7,1207 (1,31); 7,1164 (1,34); 5,7579 (1,89); 5,3679 (6,56); 4,1954 (2,03); 4,1788 (4,53); 4,1621 (2,09); 3,4791 (0,33); 3,4282 (6,97); 3,3788 (426,80); 3,3442 (0,56); 3,3295 (6,85); 3,3159 (0,86); 3,1958 (16,00); 2,9130 (1,33); 2,9064 (3,02); 2,8998 (1,41); 2,5794 (1,21); 2,5727 (1,29); 2,5627 (2,74); 2,5562 (2,81); 2,5463 (1,36); 2,5395 (1,30); 2,5303 (0,78); 2,5168 (10,27); 2,5125 (20,83); 2,5080 (27,94); 2,5035 (19,75); 2,4991 (9,11); 2,4631 (0,35); 2,4586 (0,43)
Ejemplo 530, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,7847 (4,18); 7,6882 (4,37); 7,6859 (2,81); 7,6699 (4,32); 7,6684 (4,17); 7,6264 (0,51); 7,6202 (1,08); 7,6114 (8,54); 7,6089 (8,99); 7,6000 (8,05); 7,5956 (4,71); 7,5787 (0,61); 7,5753 (0,61); 7,5387 (0,63); 7,5277 (2,92); 7,5182 (2,71); 7,5155 (2,34); 7,5085 (2,72); 7,5061 (2,33); 7,5003 (2,13); 7,4952 (1,86); 7,4869 (1,60); 7,2901 (11,92); 7,2385 (0,36); 5,7631 (1,84); 5,4332 (0,35); 5,3336 (16,00); 4,1711 (5,02); 4,1544 (10,81); 4,1377 (5,09); 3,4131 (0,38); 3,4046 (7,16); 3,3546 (450,31); 3,3182 (0,37); 3,3043 (3,32); 3,2855 (0,81); 3,2355 (40,34); 3,2071 (0,33); 3,1920 (1,08); 3,1851 (0,37); 2,6774 (0,41); 2,5626 (0,67); 2,5582 (1,01); 2,5537 (0,81); 2,5492 (0,50); 2,5307 (1,17); 2,5171 (25,22); 2,5128 (51,74); 2,5083 (69,75); 2,5039 (50,03); 2,4996 (23,67); 2,4624 (0,43); 2,4580 (0,58); 2,3398 (0,33); 2,3351 (0,45); 1,6687 (0,73); 1,6510 (2,53); 1,6337 (4,05); 1,6164 (2,91); 1,5993 (1,03); 1,3616 (0,67); 1,3464 (2,78); 1,3365 (5,10); 1,3284 (9,52); 1,3191 (8,57); 1,3102 (6,18); 1,3017 (2,54); 1,2779 (0,77); 0,9014 (5,01); 0,8840 (14,37); 0,8662 (4,55); 0,8519 (0,91); 0,8338 (0,41)
Ejemplo 534, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3216 (2,76); 7,8511 (0,57); 7,8346 (0,44); 7,8301 (1,91); 7,8139 (4,58); 7,8096 (2,73); 7,7930 (0,64); 7,6835 (0,59); 7,6796 (0,68); 7,6743 (0,38); 7,6637 (0,42); 7,6590 (0,65); 7,6544 (0,55); 7,5530 (0,58); 7,5494 (0,39); 7,5370 (0,93); 7,5331 (0,99); 7,5208 (0,46); 7,5171 (0,67); 7,3835 (0,41); 7,3798 (0,44); 7,3708 (0,43); 7,3672 (0,49); 7,3629 (0,65); 7,3593 (0,67); 7,3503 (0,62); 7,3470 (0,66); 7,3428 (0,34); 7,1387 (1,35); 7,1343 (1,38); 7,1224 (1,27); 7,1180 (1,28); 5,7638 (7,80); 5,3856 (6,21); 4,1966 (1,95); 4,1800 (4,43); 4,1633 (2,01); 3,4009 (2,37); 3,3508 (229,28); 3,3194 (0,33); 3,3009 (2,19); 3,2434 (0,35); 3,1948 (16,00); 2,9199 (1,33); 2,9133 (3,15); 2,9066 (1,40); 2,5805 (1,16); 2,5738 (1,21); 2,5638 (2,74); 2,5572 (2,80); 2,5473 (1,29); 2,5406 (1,13); 2,5304 (0,63); 2,5256 (0,97); 2,5169 (13,21); 2,5125 (27,64); 2,5080 (37,59); 2,5034 (26,53); 2,4990 (12,15); 2,4625 (0,32); 2,4580 (0,41)
Ejemplo 538, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,1325 (5,11); 7,6841 (4,02); 7,6815 (2,50); 7,6658 (3,80); 7,6641 (3,72); 7,6228 (0,80); 7,6135 (7,73); 7,6109 (8,18); 7,6042 (6,16); 7,6027 (6,36); 7,6012 (6,15); 7,5974 (4,07); 7,5808 (0,61); 7,5772 (0,61); 7,5411 (0,54); 7,5301 (2,70); 7,5208 (2,44); 7,5174 (2,02); 7,5109 (2,45);

7,5083 (2,08); 7,5029 (1,95); 7,4973 (1,70); 7,4892 (1,50); 7,2994 (10,05); 5,3716 (14,60); 4,0419 (0,38); 4,0242 (0,38); 3,4109 (0,69); 3,4057 (6,88); 3,3899 (0,77); 3,3557 (585,31); 3,3258 (0,86); 3,3057 (7,09); 3,2629 (0,54); 3,2128 (38,11); 3,1628 (0,47); 2,6819 (0,38); 2,6773 (0,50); 2,6728 (0,37); 2,5629 (0,65); 2,5583 (0,90); 2,5539 (0,73); 2,5307 (1,29); 2,5172 (28,69); 2,5128 (59,14); 2,5083 (79,86); 2,5038 (56,71); 2,4994 (26,29); 2,4630 (0,79); 2,4583 (1,00); 2,4538 (0,78); 2,4491 (0,53); 2,4337 (4,29); 2,4152 (8,10); 2,3966 (4,66); 2,3397 (0,44); 2,3351 (0,70); 1,9941 (1,67); 1,6315 (0,86); 1,6130 (2,66); 1,5946 (3,69); 1,5766 (2,57); 1,5582 (0,88); 1,3214 (1,02); 1,3054 (2,15); 1,2890 (4,40); 1,2818 (7,02); 1,2742 (5,74); 1,2636 (5,22); 1,2547 (4,45); 1,2449 (3,99); 1,2168 (0,67); 1,1966 (0,68); 1,1788 (1,03); 1,1610 (0,51); 0,8840 (6,22); 0,8669 (16,00); 0,8619 (6,17); 0,8493 (6,72); 0,8444 (2,66); 0,8170 (0,36)
Ejemplo 539, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,4467 (0,49); 7,7288 (1,42); 7,7161 (0,46); 7,7111 (1,81); 7,7073 (1,24); 7,5464 (0,89); 7,5317 (0,52); 7,5283 (0,80); 7,5248 (0,41); 7,5019 (1,33); 7,4867 (0,89); 7,4828 (1,64); 7,4653 (0,62); 7,4618 (0,34); 7,2866 (1,15); 5,7567 (3,06); 5,3019 (2,79); 3,4665 (0,36); 3,4168 (6,80); 3,3669 (522,30); 3,3171 (5,64); 3,0140 (8,63); 2,5545 (0,43); 2,5271 (0,55); 2,5136 (14,16); 2,5092 (29,42); 2,5047 (39,85); 2,5002 (28,41); 2,4958 (13,26); 2,4594 (0,35); 2,4549 (0,44); 2,4503 (0,32); 2,0750 (0,62); 1,4895 (16,00)
Ejemplo 543, Disolvente: DMSO, Espectrómetro: 400,13 MHz
12,4396 (2,27); 7,6840 (1,99); 7,6815 (1,27); 7,6658 (1,92); 7,6640 (1,91); 7,6234 (0,41); 7,6138 (3,82); 7,6114 (4,07); 7,6047 (3,12); 7,6035 (3,11); 7,6013 (2,97); 7,5976 (2,08); 7,5810 (0,35); 7,5774 (0,34); 7,5292 (1,32); 7,5202 (1,21); 7,5163 (1,02); 7,5100 (1,26); 7,5075 (1,11); 7,5022 (1,00); 7,4962 (0,85); 7,4883 (0,78); 7,3600 (0,39); 7,3576 (0,47); 7,3533 (0,34); 7,3382 (4,24); 7,3337 (4,71); 7,3250 (16,00); 7,3185 (6,34); 7,3049 (0,38); 7,2988 (0,67); 7,2968 (0,67); 7,2840 (1,06); 7,2770 (1,13); 7,2747 (1,24); 7,2658 (1,37); 7,2626 (1,42); 7,2574 (0,86); 7,2490 (0,88); 7,2413 (0,41); 5,3809 (7,22); 4,0420 (0,87); 4,0242 (0,89); 3,7676 (8,88); 3,5650 (1,20); 3,4075 (1,86); 3,3955 (0,32); 3,3576 (152,35); 3,3076 (1,72); 3,2186 (18,39); 2,5306 (0,50); 2,5171 (10,66); 2,5128 (21,73); 2,5083 (29,16); 2,5038 (20,82); 2,4995 (9,74); 2,4584 (0,33); 1,9942 (3,82); 1,2476 (1,36); 1,1964 (1,07); 1,1786 (2,07); 1,1608 (1,01); 0,8782 (0,63); 0,8614 (2,01); 0,8437 (0,79)
Ejemplo 552, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,1835 (2,74); 7,8187 (2,69); 7,8149 (2,69); 7,8064 (5,53); 7,7299 (0,61); 7,7256 (0,69); 7,7109 (1,15); 7,7065 (1,41); 7,6907 (0,67); 7,6868 (0,72); 7,6548 (0,36); 7,6504 (0,35); 7,6413 (0,42); 7,6365 (0,77); 7,6338 (0,60); 7,6321 (0,58); 7,6296 (0,50); 7,6216 (0,73); 7,6181 (0,62); 7,6156 (0,80); 7,6109 (0,45); 7,6018 (0,50); 7,5975 (0,41); 7,3942 (0,93); 7,3727 (0,98); 7,3679 (2,34); 7,3504 (1,88); 7,3480 (2,11); 7,3319 (0,93); 7,3293 (0,78); 7,1218 (1,28); 7,1131 (1,37); 7,1097 (1,10); 7,1010 (1,21); 5,7587 (0,88); 5,3644 (6,44); 4,1131 (2,04); 4,0965 (4,36); 4,0799 (2,06); 3,4259 (4,59); 3,4205 (0,49); 3,4039 (0,64); 3,3759 (406,79); 3,3504 (0,68); 3,3259 (5,60); 3,3153 (0,88); 3,1924 (16,00); 2,5304 (0,42); 2,5255 (0,71); 2,5170 (9,17); 2,5125 (19,04); 2,5080 (25,79); 2,5035 (18,12); 2,4990 (8,26); 2,4579 (0,35); 1,6317 (0,42); 1,6145 (1,30); 1,6081 (0,52); 1,5972 (1,66); 1,5918 (1,07); 1,5776 (1,39); 1,5610 (0,58); 1,3981 (1,06); 1,3790 (1,65); 1,3653 (0,76); 1,3602 (1,72); 1,3421 (1,01); 1,2583 (0,82); 1,2427 (0,84); 0,9288 (4,20); 0,9104 (8,58); 0,8919 (3,51)

La intensidad de las señales agudas se correlaciona con la altura de las señales en un ejemplo impreso de un espectro NMR en cm y muestra las relaciones reales de las intensidades de señal. A partir de las señales anchas se pueden mostrar varios picos o la mitad de la señal y su intensidad relativa en comparación con la señal de mayor intensidad en el espectro.

Para calibrar el desplazamiento químico para el espectro 1H, se usa tetrametilsilano y/o el desplazamiento químico del disolvente, especialmente en el caso del espectro medido en DMSO. Por lo tanto, en las listas de picos RMN, el pico del tetrametilsilano puede aparecer pero no necesariamente.

Las listas de picos de RMN 1H son similares a las imágenes clásicas de RMN 1H y contienen por ello habitualmente todos los picos que están listados en la interpretación de RMN clásica.

Adicionalmente, pueden mostrar como las imágenes clásicas de RMN 1H señales de disolventes, estereoisómeros de los compuestos diana, que también son objeto de la invención, y/o picos de impurezas.

Para mostrar las señales de compuestos en el intervalo delta de disolventes y/o agua, en nuestras listas de picos 1H-NMR se muestran los picos habituales de disolventes, por ejemplo picos de DMSO en DMSO-d6 y el pico de agua y tienen normalmente como media una intensidad elevada.

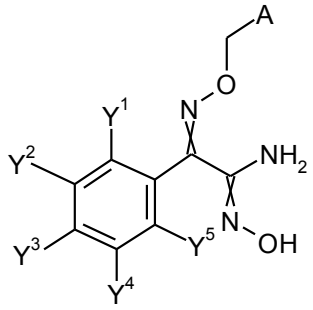
Los picos de estereoisómeros de los compuestos diana y/o picos de impurezas tienen normalmente como media una intensidad menor que los picos de los compuestos diana (por ejemplo con una pureza >90%).

Tales estereoisómeros y/o impurezas pueden ser típicos para el procedimiento de preparación específico. Por ello, sus picos pueden ayudar a reconocer la reproducción de nuestro procedimiento de preparación a través de “huellas dactilares de productos secundarios”.

Un experto, que calcula los picos de los compuestos diana con métodos conocidos (MestreC, simulación ACD, aunque también con valores esperados evaluados empíricamente), puede aislar los picos de los compuestos diana según se necesite usando opcionalmente filtros de intensidad adicionales. Este aislamiento sería similar a la selección de picos relevantes en la interpretación clásica de RMN 1H.

Se encuentran más detalles de la descripción de datos de RMN con listas de picos en "Citation of NMR Peaklist Data within Patent Applications" en la Research Disclosure Database número 564025.

La tabla 2 siguiente ilustra de forma no limitante ejemplos de compuestos de fórmula (V) según la invención.



(V)

En la tabla 2 se usan las siguientes abreviaturas para los elementos reivindicados específicos “A1” y “A2” de la estructura genérica (I) de la invención:

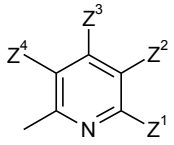
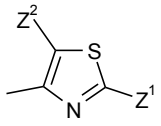
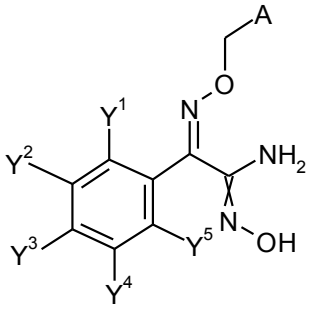
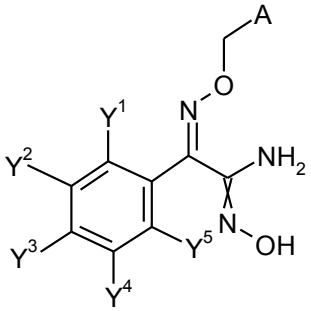
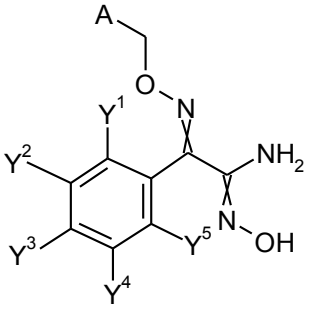
 A1	 A2

Tabla 2

Ej-no	Y^1	Y^2	Y^3	Y^4	Y^5	A	Z^1	Z^2	Z^3	Z^4	Estéreo	log P
V-1	H	H	H	H	H	A1	[(but-3-in-1-iloxi)carbonil]amino	H	H	H	Z,U	2,1[a]
V-2	H	H	H	H	H	A2	amino	H			Z,U	0,43[a]
V-3	H	H	H	H	H	A1	amino	H	H	H	Z,U	0,41[a]
V-5	H	H	H	H	fluoro	A1	(terc-butoxicarbonil)amino	H	H	H	Z,U	2,68[a]
V-6	H	metoxi	H	H	H	A1	amino	H	H	H	U,U	0,58[a]
V-7	H	CH_3	H	H	H	A1	amino	H	H	H	U,U	0,75[a]
V-8	H	H	fluoro	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z,U	2,68[a]
V-9	H	H	H	H	H	A1	amino	H	H	H	U,U	0,39[a]
V-10	H	H	H	H	cloro	A2	amino	H			Z,U	0.73[a]
V-11	H	H	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z,U	2,54[a]
V-12	H	fluoro	H	H	H	A1	amino	H	H	H	U,U	0,56[a]
V-13	H	H	metoxi	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z,U	2,51[a]
V-14	H	H	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	Z,U	2,57[a]
V-15	H	H	CH_3	H	H	A2	amino	H			Z,U	0,89[a]
V-16	fluoro	fluoro	H	H	H	A1	(terc-butoxicarbonil)amino	H	H	H	U,U	2,9[a]

Se describe la geometría del doble enlace de los ejemplos del a tabla 2 como se muestra aquí:

V (Z, U)	**V (U,U)**	**V (E,U)**
		

La medición de los valores logP se realizó de acuerdo con la directiva de la CEE 79/831 Anexo V.A8 por HPLC (Cromatografía Líquida de Alta Resolución) en columnas de fase inversa con los siguientes métodos:

[b] La medición de LC-MS se realizó a pH 2,7 con ácido fórmico al 0,1% en agua y con acetonitrilo (contiene 0,1% de ácido fórmico) como eluyente con un gradiente lineal desde 10% de acetonitrilo hasta 95% de acetonitrilo.

La calibración se hizo con alcan-2-onas no ramificadas (con 3 a 16 átomos de carbono) con valores de logP conocidos (medición de valores de logP usando tiempos de retención con interpolación lineal entre alcanonas sucesivas). Los valores máximos de lambda se determinaron usando espectros UV de 200 nm a 400 nm y los valores pico de las señales cromatográficas.

Listas de picos-RMN

Los datos de RMN de 1H de los ejemplos seleccionados se escriben en forma de listas de picos de RMN 1H. Para cada pico de señal, se listan el valor δ en ppm y la intensidad de la señal entre paréntesis. Entre los pares valor δ – intensidad de la señal hay semicolumnas como delimitadores.

La lista de picos de un ejemplo tiene por lo tanto la forma:

δ_1 (intensida$_{d1}$); δ_2 (intensidad$_2$);……..; δ_i (intensidad$_i$);……; δ_n (intensidad$_n$)

Lista de picos RMN Tabla 2

Ejemplo V-1, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2384 (6,32); 9,5810 (13,93); 7,7909 (1,47); 7,7700 (3,84); 7,7525 (4,80); 7,7422 (5,37); 7,7243 (1,83); 7,5899 (3,91); 7,5855 (5,01); 7,5774 (2,97); 7,5723 (4,42); 7,5658 (5,73); 7,5505 (0,33); 7,4352 (0,38); 7,4304 (0,45); 7,4142 (2,59); 7,4070 (9,61); 7,4032 (8,91); 7,3964 (3,44); 7,3887 (5,02); 7,3806 (1,29); 7,3763 (1,37); 7,3706 (0,64); 7,3662 (0,71); 7,1661 (3,23); 7,1511 (3,03); 5,9854 (8,22); 5,4365 (0,34); 5,2038 (13,23); 4,1935 (4,30); 4,1769 (9,43); 4,1602 (4,47); 4,0603 (1,21); 4,0426 (3,71); 4,0247 (3,76); 4,0070 (1,26); 3,3392 (422,26); 3,3159 (2,65); 2,9149 (2,89); 2,9084 (6,35); 2,9018 (3,09); 2,6756 (0,55); 2,5771 (2,62); 2,5705 (2,80); 2,5605 (5,58); 2,5538 (5,57); 2,5438 (3,33); 2,5371 (3,44); 2,5112 (71,28); 2,5068 (94,61); 2,5024 (68,57); 2,3336 (0,58); 1,9937 (16,00); 1,2371 (0,41); 1,1971 (4,22); 1,1793 (8,32); 1,1615 (4,08); 1,0499 (0,39); 1,0347 (0,37)

Ejemplo V-2, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,5491 (15,10); 7,9561 (0,37); 7,5986 (4,12); 7,5934 (5,07); 7,5850 (5,16); 7,5742 (5,35); 7,4520 (0,37); 7,4455 (0,39); 7,4084 (10,73); 7,4033 (9,94); 7,3951 (6,17); 7,3911 (5,82); 7,3811 (1,82); 7,3677 (0,64); 6,9462 (8,98); 6,8974 (0,61); 6,5207 (7,46); 6,3354 (0,34); 5,8870 (8,21); 4,9797 (13,41); 4,9560 (0,57); 4,3672 (0,76); 4,3569 (0,84); 4,0593 (1,18); 4,0415 (3,66); 4,0237 (3,70); 4,0060 (1,27); 3,4971 (0,62); 3,3982 (1,44); 3,3500 (796,75); 3,3269 (13,02); 3,2172 (0,45); 2,8944 (2,41); 2,7352 (1,99); 2,6757 (0,62); 2,6716 (0,47); 2,5153 (42,64); 2,5110 (85,51); 2,5066 (115,29); 2,5022 (85,59); 2,4981 (44,52); 2,3379 (0,69); 2,3333 (0,85); 2,3289 (0,70); 1,9932 (16,00); 1,9289 (0,36); 1,1962 (4,25); 1,1784 (8,48); 1,1606 (4,28); 1,0489 (5,22); 1,0336 (5,22); 1,0068 (0,37); 0,9911 (0,33)
Ejemplo V-3, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,5835 (13,01); 8,3625 (0,37); 7,5882 (4,44); 7,5838 (5,66); 7,5713 (5,26); 7,5643 (6,24); 7,5507 (0,81); 7,4450 (1,04); 7,4381 (0,87); 7,4292 (0,89); 7,4020 (11,27); 7,3979 (10,91); 7,3843 (6,11); 7,3723 (1,96); 7,3655 (3,78); 7,3462 (4,70); 7,3268 (2,98); 6,5792 (4,56); 6,5611 (4,32); 6,3511 (4,77); 6,3307 (4,59); 6,0162 (8,57); 5,9407 (9,28); 5,0551 (15,24); 5,0194 (1,15); 4,0601 (1,27); 4,0423 (3,80); 4,0245 (3,84); 4,0068 (1,30); 3,3355 (29,82); 3,3117 (0,86); 2,6758 (0,36); 2,5103 (49,80); 2,5063 (63,64); 2,5024 (48,40); 2,3328 (0,40); 1,9941 (16,00); 1,4690 (1,60); 1,3672 (5,00); 1,3289 (0,43); 1,2469 (0,33); 1,2313 (0,41); 1,2153 (0,37); 1,1969 (4,20); 1,1791 (8,28); 1,1613 (4,14); 1,0497 (0,33); 1,0344 (0,36)
Ejemplo V-5, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,3501 (0,70); 10,0193 (2,28); 9,7981 (0,35); 9,7886 (0,39); 9,7751 (0,99); 7,7649 (0,78); 7,7561 (0,33); 7,7477 (1,00); 7,7414 (1,08); 7,7382 (1,21); 7,7232 (0,39); 7,7205 (0,46); 7,7172 (0,50); 7,4206 (0,38); 7,3712 (0,48); 7,3671 (0,46); 7,2552 (0,33); 7,2127 (0,96); 7,1934 (1,14); 7,1754 (0,35); 7,1727 (0,37); 7,1676 (0,35); 7,1176 (0,58); 7,1143 (0,59); 7,1004 (0,54); 7,0972 (0,53); 6,0190 (1,16); 5,4960 (0,40); 5,1917 (2,45); 5,1726 (0,78); 5,1364 (0,73); 4,3783 (0,63); 4,3679 (0,65); 3,4137 (1,17); 3,3637 (98,84); 3,3138 (0,97); 2,5167 (5,13); 2,5123 (10,50); 2,5078 (14,14); 2,5033 (10,05); 2,4989 (4,67); 1,4718 (16,00); 1,4676 (7,25); 1,4586 (5,96); 1,3449 (0,38); 1,0499 (4,29); 1,0346 (4,22)
Ejemplo V-6, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,6370 (0,70); 7,4196 (0,51); 7,4009 (0,49); 7,3688 (0,34); 7,2198 (0,33); 7,1966 (0,34); 7,1549 (0,44); 7,1048 (0,32); 6,6322 (0,45); 6,4048 (0,44); 6,3849 (0,41); 6,0589 (0,67); 6,0014 (0,88); 5,9870 (0,56); 5,1080 (0,97); 5,0737 (0,76); 3,8140 (1,62); 3,8037 (2,10); 3,4077 (16,00); 2,5607 (6,25); 2,0479 (1,01); 1,4147 (3,15); 1,2322 (0,54)
Ejemplo V-7, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,5760 (6,62); 8,3420 (0,76); 7,3883 (5,91); 7,3676 (4,96); 7,3485 (3,46); 7,3294 (2,43); 7,2979 (1,40); 7,2790 (3,12); 7,2604 (2,23); 7,2335 (2,92); 7,2149 (1,47); 6,6030 (0,53); 6,5779 (2,96); 6,5597 (2,73); 6,3537 (3,14); 6,3332 (3,03); 6,0066 (6,27); 5,9484 (6,83); 5,0527 (9,42); 5,0163 (2,00); 4,3786 (1,17); 4,3685 (1,22); 3,7863 (0,42); 3,7747 (0,41); 3,3618 (126,69); 2,5107 (33,34); 2,3242 (4,01); 2,3099 (16,00); 1,9974 (0,53); 1,3672 (8,64); 1,3273 (0,79); 1,0530 (6,86); 1,0378 (6,86)
Ejemplo V-8, Disolvente: DMSO, Espectrómetro: 400,13 MHz
9,8779 (0,56); 9,7865 (1,21); 9,6621 (0,57); 9,6336 (3,02); 7,7446 (0,65); 7,7337 (0,90); 7,7236 (0,59); 7,7166 (1,41); 7,7111 (1,06); 7,7047 (0,50); 7,6478 (0,53); 7,6268 (1,05); 7,6215 (0,35); 7,6129 (0,85); 7,6043 (0,88); 7,5961 (0,37); 7,5905 (0,80); 7,2696 (0,82); 7,2473 (1,52); 7,2251 (0,76); 7,1220 (0,58); 7,1180 (0,93); 7,1054 (0,53); 7,1013 (0,69); 6,0218 (1,41); 5,7691 (0,46); 5,3607 (0,38); 5,3461 (0,87); 5,3315 (0,40); 5,1883 (2,33); 4,4588 (0,94); 4,4442 (0,92); 3,3459 (5,83); 2,5274 (0,35); 2,5186 (5,01); 2,5143 (10,54); 2,5098 (14,40); 2,5053 (10,39); 2,5009 (4,90); 1,9970 (0,49); 1,4936 (3,04); 1,4707 (16,00); 1,4614 (12,40); 1,3492 (0,46)
Ejemplo V-9, Disolvente: DMSO, Espectrómetro: 400,13 MHz
11,6706 (0,57); 9,6437 (11,07); 9,6111 (0,83); 9,5063 (0,63); 8,4196 (0,59); 7,7923 (0,46); 7,7813 (0,37); 7,6999 (0,55); 7,6809 (0,65); 7,6363 (6,50); 7,6236 (6,88); 7,6173 (6,99); 7,5953 (1,26); 7,4949 (1,76); 7,4818 (2,21); 7,4494 (13,30); 7,4362 (7,91); 7,4173 (4,66); 7,3978 (5,09); 7,3783 (2,83); 6,6564 (0,54); 6,6317 (4,88); 6,6136 (4,56); 6,4035 (5,20); 6,3830 (5,05); 6,3504 (0,33); 6,3303 (0,35); 6,0740 (10,41); 5,9980 (11,15); 5,9375 (0,56); 5,8614 (0,66); 5,8221 (0,66); 5,1080 (16,00); 5,0728 (1,69); 4,3673 (0,40); 4,1097 (0,74); 4,0921 (2,21); 4,0743 (2,25); 4,0565 (0,76); 3,3989 (18,10); 2,5564 (28,20); 2,0442 (8,96); 1,5193 (0,74); 1,4187 (6,75); 1,4031 (1,13); 1,3796 (0,48); 1,2810 (0,33); 1,2463 (2,37); 1,2285 (4,62); 1,2108 (2,32); -0,0002 (0,88)
Ejemplo V-10, Disolvente: DMSO, Espectrómetro: 400,13 MHz
10,2843 (0,88); 10,2483 (5,58); 7,4351 (1,19); 7,4160 (2,67); 7,4015 (1,05); 7,3921 (1,16); 7,3889 (1,30); 7,3793 (1,59); 7,3704 (1,05); 7,3596 (1,06); 7,3517 (0,73); 7,3307 (4,25); 7,3211 (3,26); 7,3190 (2,88); 6,9883 (3,79); 6,9201 (0,65); 6,5519 (3,30); 6,4022 (0,49); 5,9548 (3,07); 5,4767 (0,50); 4,9653 (6,06); 4,9214 (0,91); 4,3712 (2,12); 4,3608 (2,23); 3,7995 (0,51); 3,7891 (0,53); 3,7843 (0,71); 3,7738 (0,69); 3,7691 (0,58); 3,7586 (0,53); 3,4075 (1,69); 3,3574 (108,93); 3,3075 (1,85); 2,8952 (0,74); 2,7366 (0,60); 2,5165 (8,02); 2,5124 (16,13); 2,5080 (21,76); 2,5036 (16,33); 2,4681 (0,61); 2,4630 (0,62);

2,4583 (0,61); 2,4540 (0,48); 1,9948 (1,32); 1,1979 (0,35); 1,1801 (0,69); 1,1623 (0,35); 1,0515 (15,90); 1,0362 (16,00); 1,0016 (0,39)
Ejemplo V-11, Disolvente: DMSO, Espectrómetro: 400,13 MHz 9,7597 (1,29); 9,5891 (2,61); 7,7312 (0,81); 7,7140 (1,69); 7,7093 (1,19); 7,6923 (0,33); 7,5921 (0,80); 7,5877 (1,04); 7,5796 (0,71); 7,5749 (0,94); 7,5681 (1,16); 7,4136 (0,58); 7,4068 (2,01); 7,4028 (1,90); 7,3955 (0,87); 7,3886 (1,12); 7,3807 (0,36); 7,3765 (0,36); 7,1311 (0,60); 7,1276 (0,63); 7,1145 (0,57); 7,1111 (0,59); 5,9845 (1,68); 5,1919 (2,69); 4,0430 (0,63); 4,0252 (0,64); 3,3402 (10,07); 2,5110 (2,83); 2,5067 (3,75); 2,5024 (2,84); 1,9938 (2,65); 1,4699 (16,00); 1,1970 (0,71); 1,1792 (1,39); 1,1614 (0,70); 1,0477 (1,52); 1,0326 (1,53)
Ejemplo V-12, Disolvente: DMSO, Espectrómetro: 400,13 MHz 9,7235 (1,91); 7,5204 (0,47); 7,5026 (0,54); 7,4753 (1,06); 7,4563 (0,44); 7,4266 (0,63); 7,4075 (0,95); 7,3883 (0,56); 7,3676 (0,70); 7,3429 (0,99); 7,3252 (0,62); 6,6247 (0,98); 6,6066 (0,84); 6,4128 (0,92); 6,3923 (0,89); 6,1293 (1,87); 6,0148 (2,03); 5,1290 (2,84); 5,0941 (0,50); 3,4120 (16,00); 2,5614 (6,29); 2,0478 (1,20); 1,4178 (1,98); 1,2497 (0,32); 1,2324 (0,62); 1,1034 (0,78); 1,0887 (0,78)
Ejemplo V-13, Disolvente: DMSO, Espectrómetro: 300,16 MHz 9,7890 (1,09); 9,5497 (0,53); 7,7369 (0,96); 7,7157 (2,18); 7,6911 (0,38); 7,5387 (1,69); 7,5096 (1,86); 7,1356 (0,79); 7,1181 (0,74); 6,9814 (1,86); 6,9522 (1,67); 5,9612 (2,01); 5,1652 (2,89); 3,7826 (6,20); 3,3647 (3,36); 2,5205 (2,59); 1,4805 (16,00); 1,0636 (0,71); 1,0434 (0,71)
Ejemplo V-15, Disolvente: DMSO, Espectrómetro: 300,16 MHz 9,5113 (5,70); 7,4915 (5,08); 7,4656 (6,21); 7,2124 (6,05); 7,1871 (5,11); 7,1412 (0,90); 6,9410 (8,68); 6,5056 (5,27); 5,8482 (7,91); 4,9567 (10,11); 4,8853 (0,43); 3,3439 (16,33); 2,5007 (4,74); 2,3105 (16,00); 1,0475 (0,84); 1,0272 (0,84)
Ejemplo V-16, Disolvente: DMSO, Espectrómetro: 400,13 MHz 10,6429 (0,37); 10,4140 (0,90); 10,1114 (2,88); 9,8002 (0,44); 9,7870 (1,15); 7,7905 (0,32); 7,7698 (0,84); 7,7522 (1,06); 7,7449 (0,92); 7,7419 (0,99); 7,7321 (0,33); 7,7240 (0,42); 7,7208 (0,38); 7,7149 (0,34); 7,4705 (0,44); 7,4655 (0,34); 7,4569 (0,34); 7,2216 (0,44); 7,2117 (0,90); 7,2034 (0,84); 7,1996 (0,71); 7,1929 (0,58); 7,1147 (0,70); 7,1117 (0,66); 7,0974 (0,62); 6,0780 (1,19); 5,5613 (0,42); 5,2094 (2,49); 5,1576 (0,79); 4,0425 (0,61); 4,0247 (0,62); 3,3406 (23,20); 2,8956 (0,34); 2,5577 (0,39); 2,5299 (0,75); 2,5165 (13,42); 2,5121 (27,31); 2,5076 (36,65); 2,5032 (26,10); 2,4989 (12,23); 2,4621 (0,34); 2,4575 (0,40); 1,9950 (2,71); 1,4723 (16,00); 1,4604 (7,39); 1,3451 (0,91); 1,3397 (0,46); 1,2392 (0,61); 1,1973 (0,75); 1,1795 (1,48); 1,1617 (0,74)

La intensidad de las señales agudas se correlaciona con la altura de las señales en un ejemplo impreso de un espectro NMR en cm y muestra las relaciones reales de las intensidades de señal. A partir de las señales anchas se pueden mostrar varios picos o la mitad de la señal y su intensidad relativa en comparación con la señal de mayor intensidad en el espectro.

Para calibrar el desplazamiento químico para el espectro 1H, se usa tetrametilsilano y/o el desplazamiento químico del disolvente, especialmente en el caso del espectro medido en DMSO. Por lo tanto, en las listas de picos RMN, el pico del tetrametilsilano puede aparecer pero no necesariamente.

Las listas de picos de RMN 1H son similares a las imágenes clásicas de RMN 1H y contienen por ello habitualmente todos los picos que están listados en la interpretación de RMN clásica.

Adicionalmente, pueden mostrar como las imágenes clásicas de RMN 1H señales de disolventes, estereoisómeros de los compuestos diana, que también son objeto de la invención, y/o picos de impurezas.

Para mostrar las señales de compuestos en el intervalo delta de disolventes y/o agua, en nuestras listas de picos 1H-NMR se muestran los picos habituales de disolventes, por ejemplo picos de DMSO en DMSO-d6 y el pico de agua y tienen normalmente como media una intensidad elevada.

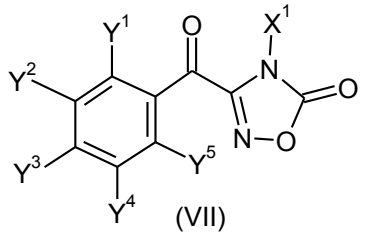
Los picos de estereoisómeros de los compuestos diana y/o picos de impurezas tienen normalmente como media una intensidad menor que los picos de los compuestos diana (por ejemplo con una pureza >90%).

Tales estereoisómeros y/o impurezas pueden ser típicos para el procedimiento de preparación específico. Por ello, sus picos pueden ayudar a reconocer la reproducción de nuestro procedimiento de preparación a través de “huellas dactilares de productos secundarios”.

Un experto, que calcula los picos de los compuestos diana con métodos conocidos (MestreC, simulación ACD, aunque también con valores esperados evaluados empíricamente), puede aislar los picos de los compuestos diana según se necesite usando opcionalmente filtros de intensidad adicionales. Este aislamiento sería similar a la selección de picos relevantes en la interpretación clásica de RMN 1H.

Se encuentran más detalles de la descripción de datos de RMN con listas de picos en "Citation of NMR Peaklist Data within Patent Applications" en la Research Disclosure Database número 564025.

La tabla 3 siguiente ilustra de forma no limitante ejemplos de compuestos de fórmula (VII) según la invención.



(VII)

Tabla 3

Ej.	Y^1	Y^2	Y^3	Y^4	Y^5	X^1	log P
VII-1	H	H	H	H	H	Me	3,21[a]

La medición de los valores logP se realizó de acuerdo con la directiva de la CEE 79/831 Anexo V.A8 por HPLC (Cromatografía Líquida de Alta Resolución) en columnas de fase inversa con los siguientes métodos:

[a] La medición de LC-MS se realizó a pH 2,7 con ácido fórmico al 0,1% en agua y con acetonitrilo (contiene 0,1% de ácido fórmico) como eluyente con un gradiente lineal desde 10% de acetonitrilo hasta 95% de acetonitrilo.

La calibración se hizo con alcan-2-onas no ramificadas (con 3 a 16 átomos de carbono) con valores de logP conocidos (medición de valores de logP usando tiempos de retención con interpolación lineal entre alcanonas sucesivas). Los valores máximos de lambda se determinaron usando espectros UV de 200 nm a 400 nm y los valores pico de las señales cromatográficas.

Listas de picos-RMN

Los datos de RMN de 1H de los ejemplos seleccionados se escriben en forma de listas de picos de RMN 1H. Para cada pico de señal, se listan el valor δ en ppm y la intensidad de la señal entre paréntesis. Entre los pares valor δ – intensidad de la señal hay semicolumnas como delimitadores.

La lista de picos de un ejemplo tiene por lo tanto la forma:

δ_1 (intensida$_{d1}$); δ_2 (intensidad$_2$);……..; δ_i (intensidad$_i$);……; δ_n (intensidad$_n$)

Lista de picos RMN Tabla 3

Ejemplo VII-1, Disolvente: DMSO, Espectrómetro: 499,93 MHz

8,1468 (2,84); 8,1323 (3,08); 8,1301 (2,62); 7,8209 (0,72); 7,8061 (1,66); 7,7912 (1,01); 7,6541 (2,15); 7,6385 (3,33); 7,6228 (1,70); 3,3813 (16,00); 3,3525 (3,79); 2,5148 (0,84); 2,5115 (1,10); 2,5082 (0,84);

La intensidad de las señales agudas se correlaciona con la altura de las señales en un ejemplo impreso de un espectro NMR en cm y muestra las relaciones reales de las intensidades de señal. A partir de las señales anchas se pueden mostrar varios picos o la mitad de la señal y su intensidad relativa en comparación con la señal de mayor intensidad en el espectro.

Para calibrar el desplazamiento químico para el espectro 1H, se usa tetrametilsilano y/o el desplazamiento químico del disolvente, especialmente en el caso del espectro medido en DMSO. Por lo tanto, en las listas de picos RMN, el pico del tetrametilsilano puede aparecer pero no necesariamente.

Las listas de picos de RMN 1H son similares a las imágenes clásicas de RMN 1H y contienen por ello habitualmente todos los picos que están listados en la interpretación de RMN clásica.

Adicionalmente, pueden mostrar como las imágenes clásicas de RMN 1H señales de disolventes, estereoisómeros de los compuestos diana, que también son objeto de la invención, y/o picos de impurezas.

Para mostrar las señales de compuestos en el intervalo delta de disolventes y/o agua, en nuestras listas de picos 1H-NMR se muestran los picos habituales de disolventes, por ejemplo picos de DMSO en DMSO-d6 y el pico de agua y tienen normalmente como media una intensidad elevada.

Los picos de estereoisómeros de los compuestos diana y/o picos de impurezas tienen normalmente como media una intensidad menor que los picos de los compuestos diana (por ejemplo con una pureza >90%).

Tales estereoisómeros y/o impurezas pueden ser típicos para el procedimiento de preparación específico. Por ello, sus picos pueden ayudar a reconocer la reproducción de nuestro procedimiento de preparación a través de “huellas dactilares de productos secundarios”.

Un experto, que calcula los picos de los compuestos diana con métodos conocidos (MestreC, simulación ACD, aunque también con valores esperados evaluados empíricamente), puede aislar los picos de los compuestos diana según se necesite usando opcionalmente filtros de intensidad adicionales. Este aislamiento sería similar a la selección de picos relevantes en la interpretación clásica de RMN 1H.

Se encuentran más detalles de la descripción de datos de RMN con listas de picos en "Citation of NMR Peaklist Data within Patent Applications" en la Research Disclosure Database número 564025.

Ejemplo A: Prueba de *Phytophthora* (tomate) / preventivo

Disolvente: 49 partes en peso de N, N-dimetilformamida

Emulsionante: 1 parte en peso de alquilaril poliglicol éter

Para producir una preparación adecuada de compuesto activo, se mezcla 1 parte en peso de compuesto activo con las cantidades indicadas de disolvente y emulsionante y el concentrado se diluye con agua a la concentración deseada.

Para ensayar la actividad preventiva, se pulverizan las plántulas con la preparación de compuesto activo en la relación de aplicación indicada. Un día después de este tratamiento, las plantas se inoculan con una suspensión acuosa de esporas de ***Phytophthora infestans***. Las plantas permanecen durante un día en una cabina de incubación a aproximadamente 22ºC y a una humedad atmosférica relativa de 100%. Luego las plantas se colocan en una cabina de incubación a aproximadamente 20ºC y a una humedad atmosférica relativa de 96%.

Se evaluaron los ensayos 7 días después de la inoculación. 0% significa una eficacia que corresponde a aquella del control sin tratar, mientras que una eficacia del 100% significa que no se observa enfermedad.

En este ensayo, los siguientes compuestos de acuerdo con la invención mostraron una eficacia del 70% o incluso mayor a una concentración de 100 ppm de ingrediente activo:

Nº Ej	**% Ef.**
2	100
3	98
5	95
6	98
7	95
8	98
9	95
10	95
11	100
12	95
13	95
14	95
15	98
16	98
17	98
18	95
19	95
20	95
21	97
26	93

Nº Ej	**% Ef.**
58	80
70	84
74	95
86	90
104	93
111	95
136	95
148	97
154	95
163	95
168	92
198	95
199	97
226	92
282	92
322	75
342	92
347	92
405	95

Ejemplo B: Ensayo de Plasmopara (viñedos) / preventivo

Disolvente:	24,5	partes en peso de acetona
	24,5	partes en peso de dimetilacetamida
Emulsionante:	1	parte en peso de alquilaril poliglicol éter

Para producir una preparación adecuada de compuesto activo, se mezcla 1 parte en peso de compuesto activo con las cantidades indicadas de disolvente y emulsionante y el concentrado se diluye con agua a la concentración deseada.

Para ensayar la actividad preventiva, se pulverizan las plántulas con la preparación de compuesto activo en la relación de aplicación indicada. Después de que se ha secado el recubrimiento por pulverización, las plantas se inoculan con una suspensión acuosa de esporas de ***Plasmopara viticola*** y a continuación se dejan durante 1 día en una cabina de incubación a aproximadamente 20ºC y a una humedad atmosférica relativa de 100%. La planta se dispone posteriormente durante 4 días en un invernadero a aproximadamente 21ºC y a una humedad atmosférica relativa de aproximadamente 90%. Después, las plantas se vaporizan y se disponen durante un día en una cabina de incubación.

El ensayo se evalúa 6 días después de la inoculación. 0% significa una eficacia que corresponde a aquella del control sin tratar, mientras que una eficacia del 100% significa que no se observa enfermedad.

En este ensayo, los siguientes compuestos de acuerdo con la invención mostraron una eficacia del 70% o incluso mayor a una concentración de 10 ppm de ingrediente activo:

Tabla

Ensayo de Plasmopara (viñedos) / preventivo

Nº Ej	% Ef.
2	97
3	100
5	88
6	100
7	96
8	99
9	94
10	96
11	98
12	94
13	93
14	96
15	97
16	94
17	94
18	100
19	97
20	94
21	100
37	80
39	97
44	98
50	95
51	91
54	93
59	98
68	90
74	94
80	98
85	73
92	93
95	100
100	74
102	91
104	100
111	100
116	93

Nº Ej	% Ef.
120	84
136	75
140	85
148	100
152	70
163	96
166	95
167	86
168	100
173	86
180	95
195	95
198	100
199	100
206	81
208	91
226	100
228	93
233	78
240	80
244	86
245	93
248	85
281	97
282	96
284	79
291	77
292	90
295	89
296	74
302	92
307	98
312	95
316	84
317	91
318	93
321	82

Nº Ej	% Ef.
325	84
327	95
336	91
340	79
342	100
343	95
344	93
347	100
352	79
355	75
364	100
365	98
376	93
378	95
380	95
389	100
395	93
401	90
404	87
405	85
406	79

Ejemplo C: Ensayo de Pythium (pepino) / tratamiento de semillas

El ensayo se realiza en condiciones de invernadero.

Las semillas de pepino, tratadas con el compuesto activo o combinaciones de compuestos, disueltos en N-metil-2-pirrolidona y se diluyeron con agua a las dosificaciones deseadas, se sembraron en macetas de 6*6cm que contenían 4 cm de una mezcla 1:1 de tierra de campo evaporada y arena.

La perlita se incubó con fragmentos de micelio de ***Pythium aphanidermatum***. Se diseminaron 5 ml de perlita infectada entre las semillas de algodón tratadas. A continuación las semillas se cubrieron con la mezcla 1:1 de tierra de campo evaporada y arena. Las macetas se incubaron en el invernadero por 7 días a 24°C y 80% de humedad relativa.

La evaluación consistió en el recuento de los plantones emergentes. 0% significa una eficacia que corresponde a aquella del control, mientras que una eficacia de 100% significa que todos los plantones han emergido.

En este ensayo, los siguientes compuestos de acuerdo con la invención mostraron una eficacia del 70% o incluso mayor a una dosificación de 10 g/dt se semilla de ingrediente activo:

Nº Ej	**% Ef.**
2	98
3	95
15	98
168	92
199	99
226	99
282	100
342	100

Ejemplo D :Ensayo de Pythium (Algodón) / tratamiento de semillas

El ensayo se realiza en condiciones de invernadero.

Las semillas de algodón, tratadas con el compuesto activo o combinaciones de compuestos, disueltos en N-metil-2-pirrolidona y se diluyeron con agua a las dosificaciones deseadas, se sembraron en macetas de 6*6cm que contenían 4 cm de una mezcla 1:1 de tierra de campo evaporada y arena.

La perlita se incubó con fragmentos de micelio de ***Pythium ultimum***. Se diseminó 1 ml de perlita infectada entre las semillas de algodón tratadas. A continuación las semillas se cubrieron con un agregado de arcilla expandido por luz. Las macetas se incubaron en el invernadero por 7 días a 20°C y 80% de humedad relativa.

La evaluación consistió en el recuento de los plantones emergentes. 0% significa una eficacia que corresponde a aquella del control, mientras que una eficacia de 100% significa que todos los plantones han emergido.

En este ensayo, los siguientes compuestos de acuerdo con la invención mostraron una eficacia del 70% o incluso mayor a una dosificación de 10 g/dt se semilla de ingrediente activo:

Nº Ej	% Ef.
2	89
3	93
15	96
92	100
168	70
199	96
226	93
342	100

Ejemplo E: Ensayo de Pythium (maíz) / tratamiento de semillas

El ensayo se realiza en condiciones de invernadero.

Las semillas de maíz, tratadas con el compuesto activo o combinaciones de compuestos, disueltos en N-metil-2-pirrolidona y se diluyeron con agua a las dosificaciones deseadas, se sembraron en macetas de 6*6cm que contenían 4 cm de una mezcla 1:1 de tierra de campo evaporada y arena.

La perlita se incubó con fragmentos de micelio de ***Pythium irregulare***. Se diseminaron 5 ml de perlita infectada entre las semillas de algodón tratadas. A continuación las semillas se cubrieron con la mezcla 1:1 de tierra de campo evaporada y arena. Las macetas se incubaron en el invernadero 7 días a 10°C y 80% de humedad relativa y después 14 días a 20°C y 80% de humedad relativa.

La evaluación consistió en el recuento de los plantones emergentes. 0% significa una eficacia que corresponde a aquella del control, mientras que una eficacia de 100% significa que todos los plantones han emergido.

En este ensayo, los siguientes compuestos de acuerdo con la invención mostraron una eficacia del 70% o incluso mayor a una dosificación de 10 g/dt se semilla de ingrediente activo:

Nº Ej	% Ef.
2	100
3	100
15	100
168	100
199	100
226	90
282	90
342	100

Ejemplo F : Ensayo *in vivo* en *Phytophthora infestans* (tizón tardío del tomate)

Los ingredientes activos ensayados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener la concentración deseada de material activo.

Se tratan plantas de tomate (variedad Rentita) sembradas en semilleros en un sustrato 50/50 de turba puzolana y cultivadas a 20-25ºC, en la fase Z12 por pulverización con la suspensión acuosa descrita anteriormente.

Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo. Después de 24 horas, las plantas se contaminan pulverizándolas con una suspensión acuosa de esporas de *Phytophthora infestans* (20.000 esporas por ml). Las esporas se recogen de las plantas infectadas. Las plantas de tomate contaminadas se incuban durante 5 días a 20°C, en una atmósfera húmeda. La clasificación se lleva a cabo 5 días después de la contaminación, comparando con las plantas de referencia.

En estas condiciones, se observa una buena protección (de al menos 70%) a una dosis de 500 ppm con los compuestos siguientes:

Nº Ej	**% Ef.**
8	100
15	99
27	100
29	100
30	100
32	100
33	100
34	99
36	85
37	100
39	100
40	100
42	92
43	100
44	100
47	100
48	98
50	94
52	100
53	73
54	100
55	100
56	100
57	85
59	100
61	100
62	99

Nº Ej	**% Ef.**
63	100
67	89
68	100
71	99
72	97
73	100
75	90
77	100
78	100
79	88
80	98
81	78
82	99
83	100
84	100
85	99
87	95
88	98
89	99
91	85
92	100
93	99
95	100
98	99
99	99
101	97
102	100
103	80

Nº Ej	**% Ef.**
106	75
107	100
108	100
109	93
110	98
111	100
112	73
113	90
114	100
118	100
119	97
120	100
123	98
124	99
127	100
130	100
131	100
132	97
133	88
134	99
137	98
138	97
139	100
140	100
142	100
143	75
144	95
145	83

Nº Ej	% Ef.
146	93
147	100
148	100
151	85
152	95
153	100
155	92
158	85
161	92
165	70
166	99
167	98
168	99
170	100
171	100
172	100
173	100
175	93
176	100
177	100
178	99
180	98
182	100
184	99
185	83
186	83
187	80
188	99
190	100
191	95
192	100
197	100
200	98
201	100
202	98
206	100
207	100
208	100
209	84

Nº Ej	% Ef.
210	75
211	91
212	73
215	98
216	95
218	80
219	85
221	100
224	93
225	99
226	100
227	100
228	100
229	100
230	95
232	100
233	99
235	100
236	100
237	97
239	84
240	100
243	99
244	99
246	100
247	99
248	100
250	80
251	98
255	98
256	100
257	100
258	89
261	100
262	78
263	78
264	94
265	93
266	100

Nº Ej	% Ef.
267	97
268	100
270	100
271	80
272	88
276	98
278	100
280	100
281	97
282	98
284	95
285	88
286	97
288	97
289	98
290	75
291	100
292	99
295	97
297	95
300	100
301	100
302	100
303	98
304	83
306	100
308	89
309	100
310	70
312	94
313	100
317	98
318	99
321	97
323	100
324	94
325	99
327	100
328	75

Nº Ej	% Ef.
329	93
331	98
332	85
335	99
336	99
337	99
340	100
341	100
342	99
343	100
344	100
345	99
346	97
347	100
348	100
350	98
351	93
352	100
355	100

Nº Ej	% Ef.
357	92
358	100
361	90
362	71
363	99
364	98
365	100
366	94
367	100
369	70
372	100
373	97
374	100
375	97
376	100
377	99
378	100
379	100
380	93

Nº Ej	% Ef.
381	75
383	70
384	100
386	80
387	100
388	100
389	99
390	100
394	90
395	99
396	73
400	100
401	99
403	100
404	98
406	94
407	95

Ejemplo G : ensayo in vivo sobre Botrytis cinerea (Moho gris)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener el material activo deseado.

Las plantas de pepinillo (variedad Petit vert de Paris), sembradas en un substrato 50/50 de turba-puzolana, en semilleros y mantenidas a 18-20°C, se trataron en el estadio de cotiledón Z11 pulverizando con el ingrediente activo preparado como se describió anteriormente.

Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, se contaminaron las plantas espolvoreándolas con una suspensión acuosa de esporas crioconservadas de Botrytis cinerea (50.000 esporas por ml) sobre la superficie superior de las hojas. Las esporas se suspendieron en una disolución de nutriente compuesta de:

- 10 g/l of PDB;
- 50 g/l de D-fructosa;
- 2 g/l de NH_4NO_3;
- 1 g/l de KH_2PO_4.

Se mantienen las plantas de pepino contaminadas durante 4/5 días en una habitación climatizada a 17°C (día/noche) y una humedad relativa de 80%.

La clasificación se lleva a cabo 4/5 días después de la contaminación, comparando con las plantas de referencia.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	**% Ef.**
35	71
36	86
67	80
83	73
180	83
211	84
278	78
332	71
354	71
373	85

Ejemplo H: Prueba *in vivo en Sphaerotheca fuliginea* (oídio en cucurbitáceas)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener el material activo deseado.

Plantas de pepinillo (variedad vert petit de París) en semilleros, sembradas en un substrato 50/50 de turba-puzolana y cultivadas a 20°C/23ºC, se tratan en el estadio de cotiledón Z10 pulverizando con la suspensión acuosa descrita anteriormente. Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, las plantas se contaminan pulverizándolas con una suspensión acuosa de esporas de *Sfaerotheca fuliginaa* (100.000 esporas por ml). Se recogen esporas de una planta contaminada. Se incuban plantas de pepinillo contaminadas entre aproximadamente 20°C y 25°C y a humedad relativa de 60 a 70%.

La clasificación (% de eficacia) se llevó a cabo 12 días después de la contaminación, en comparación con las plantas de control.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	**% Ef.**
83	85
124	80
190	98
197	80
209	75
211	72
212	100

Ejemplo I: ensayo preventivo in vivo en *Uromyces appendiculatus* (roya parda de la judía)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener el material activo deseado.

Las plantas de trigo (variedad Saxa), en semilleros, sembradas en un sustrato 50/50 de turba-puzolana y mantenidas a 24ºC, se tratan en la etapa de 2 hoja (9 cm de altura), pulverizándolas con la suspensión acuosa descrita anteriormente.

Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, las plantas se contaminan pulverizando las hojas con una suspensión acuosa de esporas de *Uromyces appendiculatus* (150.000 esporas por ml). Las esporas se recogen de trigo contaminado de 10 días de edad y se suspenden en agua que contiene 2,5 ml/l de tween 80 al 10%. Las plantas de trigo contaminadas se incuban durante 24 horas a 20°C y 100% de humedad relativa y luego durante 10 días a 20ºC y 70% de humedad relativa. La clasificación se lleva a cabo 10 días después de la contaminación, comparando con las plantas de control.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	**% Ef.**
39	81
43	75
62	71
83	75
99	71
111	72
113	79
140	73
171	82
185	75
190	83

Nº Ej	**% Ef.**
197	89
206	91
212	100
216	71
228	70
258	93
276	89
280	83
295	70
400	94
406	79

Ejemplo K : Ensayo *in vivo* sobre Pyrenofora teres (Manchas Reticulares de la Cebada)

Los ingredientes activos ensayados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener la concentración deseada de material activo.

Las plantas de cebada (variedad “Plaisant”), sembradas en semilleros en un sustrato 50/50 de turba-puzolana y cultivadas a 22ºC (12h) / 20ºC (12h), se tratan en la etapa de 1 hoja (10 cm de altura), pulverizándolas con el ingrediente activo preparado como se describió anteriormente.

Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, se contaminan las plantas pulverizándolas con una suspensión acuosa de esporas de Pyrenofora teres (12.000 esporas por ml). Se recogen las esporas de un cultivo de 12

días. Se incuban las plantas de cebada contaminadas durante 24 horas, a aproximadamente 20°C y a 100% de humedad relativa y luego durante 12 días, a 80% de humedad relativa.

La clasificación se lleva a cabo 12 días después de la contaminación, comparando con las plantas de referencia.

En estas condiciones, se observa una protección buena (de al menos 70%) con una dosis de 500 ppm con los compuestos siguientes:

Nº Ej	**% Ef.**
35	100
36	71
53	70
71	70
84	70
117	79
212	97
250	79
255	70
256	90
268	96
379	100

Ejemplo L : Ensayo in vivo sobre *Mycosphaerella graminicola (mancha de las hojas del trigo)*

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener la concentración deseada de material activo.

Las plantas de trigo (variedad Scipion"), sembradas en semilleros en un sustrato 50/50 de turba-puzolana y cultivadas a 22ºC (12h) / 20ºC (12h), se tratan en la etapa de 1 hoja (10 cm de altura), pulverizándolas con la suspensión acuosa descrita anteriormente. Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, las plantas se contaminaron pulverizándolas con una suspensión acuosa de esporas de Mycosfaerella graminicola conservadas en frío (500.000 esporas por ml). Las plantas de trigo contaminadas se incuban durante 72 horas a aproximadamente 18°C y 100% de humedad relativa y luego durante 21 a 28 días al 90% de humedad relativa.

La clasificación (% de eficacia) se lleva a cabo 21 a 28 días después de la contaminación, en comparación con las plantas de referencia.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	% Ef.		Nº Ej	% Ef.
30	86		190	100
43	91		197	96
57	79		207	79
67	90		212	100
71	88		223	80
77	71		248	86
83	93		250	96
108	71		255	88
111	100		270	86
117	90		308	100
130	86		330	83
151	92		341	70
158	80		384	70
172	86		406	79
173	73			

Ejemplo M : Prueba *in vivo* en *Puccinia recondita* (roya marrón)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener el material activo deseado.

Las plantas de trigo (variedad Scipion"), sembradas en semilleros en un sustrato 50/50 de turba-puzolana y cultivadas a 22ºC (12h) / 20ºC (12h), se tratan en la etapa de 1 hoja (10 cm de altura), pulverizándolas con la suspensión acuosa descrita anteriormente.

Las plantas, utilizadas como referencias, se tratan con una disolución acuosa que no contiene el material activo.

Después de 24 horas, las plantas se contaminaron pulverizando las hojas con una suspensión acuosa de esporas de *Puccinia recondita* (100.000 esporas por ml). Las esporas se recogen de trigo contaminado de 10 días de edad y se suspenden en agua que contiene 2,5 ml/l de tween 80 al 10%. Las plantas de trigo contaminadas se incuban durante 24 horas a 20°C y 100% de humedad relativa y luego durante 10 días a 20ºC y 70% de humedad relativa. La clasificación se lleva a cabo 10 días después de la contaminación, comparando con las plantas de control.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	% Ef.		Nº Ej	% Ef.
36	75		209	88
39	98		211	71
43	94		212	89
63	75		215	81
67	98		228	81
73	81		233	98
83	89		258	81
88	78		280	98
120	98		292	75
131	81		308	94
140	86		317	81
172	89		324	75
173	89		325	75
185	78		351	75
190	94		384	79
191	89		395	72
197	94		406	81

Ejemplo N : ensayo *in vivo* sobre *Alternaria brassicae* (mancha de las hojas de las crucíferas)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener el material activo deseado.

Plantas de rábano (variedad Pernot), en semilleros, sembradas en un substrato 50/50 de turba-puzolana y mantenidas entre 18 y 20ºC, se tratan en el estadio de cotiledón pulverizándolas con el ingrediente activo preparado como se describió anteriormente.

Las plantas, utilizadas como referencias, se tratan con la mezcla acetona/Tween/agua que no contiene el material activo.

Después de 24 horas, las plantas se contaminan pulverizándolas con una suspensión acuosa de esporas de *Alternaria brassicae (*40.000 esporas por cm^3). Las esporas se han obtenido en un cultivo de 12 a 13 días.

Las plantas de rábano contaminadas se incuban durante 6 a 7 días a aproximadamente 18ºC, en una atmósfera húmeda.

La clasificación se llevó a cabo 6 a 7 días después de la contaminación, comparando con las plantas de referencia.

En estas condiciones, se observa una protección buena (de al menos 70%) con una dosis de 500 ppm con los compuestos siguientes:

Nº Ej	**% Ef.**
34	100
39	83
111	70
209	70
212	70
262	83
308	90
364	92

Ejemplo O : ensayo *in vivo* sobre *Pyricularia grisea* (tizón del arroz)

Los ingredientes activos probados se preparan por homogeneización en una mezcla de acetona/Tween/DMSO, a continuación se diluyen con agua para obtener la concentración deseada de material activo.

Las plantas de arroz (variedad “Koshihikari”), sembradas en semilleros en un sustrato 50/50 de turba-puzolana y cultivadas a 25ºC, se tratan en la etapa de 2 hojas (10 cm de altura), pulverizándolas con el ingrediente activo preparado como se ha descrito anteriormente. Plantas, utilizadas como referencias, se tratan con la mezcla acetona/Tween/DMSO/agua que no contiene el material activo.

Después de 24 horas, se contaminan las plantas pulverizándolas con una suspensión acuosa de esporas de *Pyricularia grisea* (40.000 esporas por ml). Las esporas se recogen de un cultivo de 17 días y se suspenden en agua que contiene gelatina 2,5 g/l. Las plantas de arroz contaminadas se incuban durante 6 días a 25°C y a 80% de humedad relativa.

La clasificación (% de eficacia) se lleva a cabo 6 días después de la contaminación, en comparación con las plantas de referencia.

En estas condiciones, se observa protección buena (al menos del 70%) o total con una dosis de 500 ppm con los siguientes compuestos:

Nº Ej	**% Ef.**
42	71
95	70
109	70

167	96
171	80
227	96
265	70
306	90

Química

Los siguientes ejemplos ilustran de forma no limitante la preparación y eficacia de los compuestos de fórmula (I) de acuerdo con la invención.

Ejemplo 1 de preparación : 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 1) según el proceso P1

Etapa 1:

A una disolución de (2Z)-(hidroxiimino)(fenil)acetonitrilo (2,5 g, 17,10 mmol, 1 eq.) en 100 ml de acetonitrilo y 10 ml DMF se añadió [6-(clorometil)piridin-2-il]carbamato de terc-butilo (4,15 g, 17,10 mmol, 1 eq.) seguido de ioduro de potasio (283 mg, 1,71 mmol, 0,1 eq.) y carbonato de cesio (8,36g, 25,65 mmol, 1,5 eq.). La reacción se agitó durante una noche a temperatura ambiente. A continuación se evaporó el disolvente y el residuo se disolvió en EtOAc (100 ml). La capa orgánica se lavó con H_2O y se secó sobre $MgSO_4$, después se concentró. Se obtuvo {6-[({[(Z)-ciano(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (5,39 g, 80 % de rendimiento, solo 1 isómero oxima) como un sólido blanco.

Etapa 2:

A una disolución de {6-[({[(Z)-ciano(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (5,4 g, 15,32 mmol, 1eq.) en DCM (200 ml) se añadió TFA (17,47 g, 153 mmol, 10 eq.). La disolución se mantuvo a reflujo durante 12h. La reacción se detuvo por adición de $NaHCO_3$ ac. sat. y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se secaron sobre $MgSO_4$ y se concentraron para proporcionar (2Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)acetonitrilo (3,86g, 89% de rendimiento).

Etapa 3: Preparación de (Z)-2-{[(6-aminopiridin-2-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (compuesto V-3) según el proceso P1

A una suspensión de (2Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)acetonitrilo (4g, 15,85 mmol, 1 eq.) en iPrOH/H_2O (10/1, 110 ml) se añadió hidrocloruro de hidroxilamina (3,30g, 47,56 mmol,

3 eq.) y carbonato de potasio (6,57 g, 47,56 mmol, 3 eq.). La reacción se calentó a 80°C durante 6 h y el disolvente se evaporó a 3/4. El residuo se extrajo con EtOAc (3 x 50 ml) y se lavó con NaCl ac. sat. Los extractos orgánicos se combinaron, se secaron sobre $MgSO_4$ y se concentraron para proporcionar (Z)-2-{[(6-aminopiridin-2-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (5g, rendimiento 99%) como un sólido blanco.

Etapa 4: Preparación de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (compuesto 23) según el proceso P1

A una disolución de (1Z,2Z)-2-{[(6-aminopiridin-2-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (3g, 10,51 mmol, 1 eq.) en DMF (50 ml) se añadió CDI (1,70g, 10,51 mmol, 1 eq.) y se agitó a temperatura ambiente y se dejó durante 30 min antes de calentamiento a 80°C durante 6h. La reacción se detuvo por adición de agua y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se concentraron. El residuo se trituró en MeCN y se aisló un sólido por filtración dando una primera cosecha de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (1,36 g, 36% de rendimiento). El licor madre se concentro y purificó por cromatografía sobre gel de sílice para proporcionar una segunda cosecha (2,9 g, 50% de pureza, 40% de rendimiento).

Etapa 5: Preparación de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 1) según el proceso P1

A una disolución de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (1 g, 3.21 mmol, 1eq.) en MeCN (50 ml) y DMF (10 ml) se añadió carbonato de potasio (532 mg, 3,85 mmol, 1,2 eq.) seguido de iodometano (547 mg, 3,85 mmol, 1,2 eq.). La reacción se agitó a temperatura ambiente durante una noche. La reacción se detuvo por adición de agua y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se concentraron. El residuo se purificó mediante cromatografía sobre gel de sílice para proporcionar 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (906 mg, 85% de rendimiento) como un sólido blanco.

Ejemplo 2 de Preparación: {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de butilo (compuesto 18) según el proceso P2

A una disolución de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (60 mg, 0,184 mmol, 1 eq.) en piridina (2 ml) se añadió cloruro de butilcarbamoílo (50,3 mg, 0,369 mmol, 2 eq.) y se dejó agitando toda la noche. La reacción se detuvo por adición de agua y se concentró a sequedad. El residuo se recogió en EtOAc y se añadieron 0,5 ml de NaOH 1N. La disolución se filtró a través de una almohadilla chemelut y se lavó con EtOAc. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de butilo (60 mg, 75% de rendimiento).

Ejemplo 3 de preparación : 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 1) y 3-[(E)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 25) según el proceso P5

Etapa 1: Preparación de 3-benzoil-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto VII-1) según el proceso P5

A una disolución de 3-bencil-4-metil-1,2,4-oxadiazol-5(4H)-ona (3,87 g, 20,34 mmol, 1 eq.) en ácido acético (120 ml) se añadió óxido de cromo(VI) (6,10g, 61,04 mmol, 3 eq.) y la agitación se permitió toda la noche. La reacción se detuvo por adición de agua y se extrajo con Et_2O (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con $NaHCO_3$ ac. sat., se secaron sobre $MgSO_4$ y se concentraron para proporcionar 3-benzoil-4-metil-1,2,4-oxadiazol-5(4H)-ona (3,85 g, 88% de rendimiento) como un sólido blanco.

Etapa 2: Preparación de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 1) y 3-[(E)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 25) según el proceso P5

En un tubo de microondas, a una disolución de 3-benzoil-4-metil-1,2,4-oxadiazol-5(4H)-ona (500 mg, 2,44 mmol, 1 eq.) en iPrOH (10 ml) se añadieron 6-[(aminooxi)metil]piridin-2-amina (340 mg, 2,44 mmol, 1 eq.) seguido de pTSA.H_2O (578 mg, 2,93 mmol, 1,2 eq.). La reacción se sometió a microondas a 160°C durante 2h, después se detuvo por adición de agua y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con $NaHCO_3$ ac. sat., se secaron sobre $MgSO_4$ y se concentraron. El residuo se purificó mediante HPLC preparativa para proporcionar 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-

oxadiazol-5(4H)-ona (200 mg, 25%) y 3-[(E)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (62 mg, 8%).

Ejemplo 4 de Preparación: 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (compuesto 4) según el proceso P1

Etapa 1:

A una disolución de (2Z)-(hidroxiimino)(fenil)acetonitrilo (2,5 g, 17,10 mmol, 1 eq.) en 100 ml de acetonitrilo y 10 ml DMF se añadió hidrocloruro de 4-(clorometil)-1,3-tiazol-2-amina (3,79 g, 20,52 mmol, 1,2 eq.) seguido de ioduro de potasio (283 mg, 1,71 mmol, 0.1 eq.) y carbonato de cesio (13,37g, 41,05 mmol, 2,4 eq.). La reacción se agitó durante una noche a temperatura ambiente. A continuación se evaporó el disolvente y el residuo se disolvió en EtOAc (100 ml). La capa orgánica se lavó con H_2O y se secó sobre $MgSO_4$, después se concentró. Se obtuvo (2Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)acetonitrilo (4 g, 90 % de rendimiento, solo 1 isómero oxima) como un sólido blanco.

Etapa 2: Preparación de (1Z,2Z)-2-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (compuesto V-2) según el proceso P1

A una suspensión de (2Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)acetonitrilo (4,5g, 17,42 mmol, 1 eq.) en iPrOH/H_2O (10/1, 110 ml) se añadió hidrocloruro de hidroxilamina (3,63g, 52,26 mmol, 3 eq.) y carbonato de potasio (7,22 g, 52,2 mmol, 3 eq.). La reacción se calentó a 80°C durante 6 h y el disolvente se evaporó a 3/4. El residuo se extrajo con EtOAc (3 x 50 ml) y se lavó con NaCl ac. sat. Los extractos orgánicos se combinaron, se secaron sobre $MgSO_4$ y se concentraron para proporcionar (1Z,2Z)-2-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (5,86g) como un sólido blanco.

Etapa 3: Preparación de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (compuesto 24) según el proceso P1

A una disolución de (1Z,2Z)-2-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}-N'-hidroxi-2-feniletanimidamida (3g, 10,29 mmol, 1 eq.) en DMF (50 ml) se añadió CDI (1,66g, 10,29 mmol, 1 eq.) y se dejó la agitación a temperatura ambiente durante 30 min antes de calentar a 80°C durante 6h. La reacción se detuvo por adición de agua y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se

concentraron. El residuo se trituró en MeCN y se aisló un sólido por filtración dando una primera cosecha de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (2,89 g, 50% pureza, 43% de rendimiento).

Etapa 4: Preparación de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (compuesto 4) según el proceso P1

A una disolución de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-1,2,4-oxadiazol-5(4H)-ona (2,89g , 50% purera, 4,56 mmol, 1eq.) en MeCN (50 ml) and y DMF (10 ml) se añadió carbonato de potasio (757 mg, 5,48 mmol, 1,2 eq.) seguido de iodometano (778 mg, 5,48 mmol, 1,2 eq.). La reacción se agitó a temperatura ambiente durante una noche. La reacción se detuvo por adición de agua y se extrajo con EtOAc (3 x 50 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se concentraron. El residuo se purificó mediante cromatografía sobre gel de sílice para proporcionar 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (930 mg, 61% de rendimiento) como un sólido blanco.

Ejemplo 5 de Preparación: {4-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]-1,3-tiazol-2-il}carbamato de butilo (compuesto 14) según el proceso P2

A una disolución de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (60 mg, 0,181 mmol, 1 eq.) en piridina (2 ml) se añadió cloruro de butilcarbamoílo (49,4 mg, 0,362 mmol, 2 eq.) y se dejó agitando toda la noche. La reacción se detuvo por adición de agua y se concentró a sequedad. El residuo se tomó en EtOAc y se añadieron 0,5 ml de 1N NaOH. La disolución se filtró a través de una almohadilla chemelut y se lavó con EtOAc. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar {4-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]-1,3-tiazol-2-il}carbamato de butilo (45 mg, 55% de rendimiento).

Ejemplo 6 de Preparación: {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (compuesto 21) según el proceso P2

A una disolución de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (100 mg, 0,307 mmol, 1 eq.) en tetrahidrofurano (5 ml) se añadió trietilamina (0,118 mL, 1,23 mmol, 4 eq.) seguido de dicarbonato de di-*terc*-butilo (201 mg, 0,922 mmol, 3 eq.) y la agitación se mantuvo toda la noche. La reacción se detuvo por adición de HCl 1N y se extrajo con EtOAc (3 x 20 ml). Los extractos orgánicos se combinaron, se secaron sobre $MgSO_4$ y se concentraron. El residuo se recogió en diclorometano y se añadió ácido trifluoroacético (0,118 mL, 1,54 mmol, 5 eq.). La disolución se agitó durante 2h a temperatura ambiente, se detuvo por adición de $NaHCO_3$ ac. sat. y se extrajo con EtOAc (3 x 20 ml). Los extractos orgánicos se combinaron y se secaron sobre $MgSO_4$ y se concentraron. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (110 mg, 83% de rendimiento).

Ejemplo 7 de Preparación: (2-ciclohexiletil){6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (compuesto 279) según el proceso P6

Una disolución de {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (100 mg, 0,235 mmol, 1 eq.) en *N,N*-dimetilformamida (2 ml) se trató con hidruro de sodio (10 mg, 0,259 mmol, 1,1 eq.) y se agitó a temperatura ambiente durante 30 minutos. A continuación se añadió (2-bromoetil)ciclohexano (67 mg, 0,353 mmol, 1,5 eq.) y se mantuvo la agitación toda la noche. La reacción se detuvo por adición de agua y se extrajo con EtOAc (3 x 20 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se concentraron para proporcionar (2-ciclohexiletil){6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (108 mg, 86% de rendimiento) que se usó en la etapa siguiente sin purificación adicional.

Ejemplo 8 de Preparación: 3-[(Z)-[({6-[(2-ciclohexiletil)amino]piridin-2-il}metoxi)imino](fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 253) según el proceso P7

Una disolución de (2-ciclohexiletil){6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de terc-butilo (100 mg, 0,187 mmol, 1 eq.)

en diclorometano (5 ml) se trató con ácido trifluoroacético (0,144 mL, 1,867 mmol, 10 eq.) y se mantuvo a reflujo toda la noche. La reacción se detuvo por adición de $NaHCO_3$ ac. sat. y se extrajo con EtOAc (3 x 20 ml). Los extractos orgánicos se combinaron, se lavaron con NaCl ac. sat., se secaron sobre $MgSO_4$ y se concentraron. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar 3-[(Z)-[({6-[(2-ciclohexiletil)amino]piridin-2-il}metoxi)imino](fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (52 mg, 63% de rendimiento).

Ejemplo 9 de Preparación: 3-[(Z)-({[6-(dietilamino)piridin-2-il]metoxi}imino)(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (compuesto 197) y 4-metil-3-{(Z)-fenil[({6-[(1-feniletil)amino]piridin-2-il}metoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona (compuesto 43) según el proceso P8

A una disolución de 3-[(Z)-{[(6-aminopiridin-2-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (200 mg, 0,615 mmol, 1 eq.) en diclorometano (2,5 ml) se añadió bajo argón acetofenona (73,9 mg, 0,615 mmol, 1 eq.) seguido de cloruro de titanio(IV) (0,615 mL, 0,615 mmol, 1eq.) y se mantuvo la agitación durante 1h a temperatura ambiente. A continuación se añadió triacetoxiborohidruro de sodio (651,5 mg, 3,07 mmol, 5 eq.) y se mantuvo la agitación toda la noche a temperatura ambiente. La mezcla bruta se filtró a través de una almohadilla chemelut y se lavó con EtOAc. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar 3-[(Z)-({[6-(dietilamino)piridin-2-il]metoxi}imino)(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (30mg, 11% de rendimiento) y 4-metil-3-{(Z)-fenil[({6-[(1-feniletil)amino]piridin-2-il}metoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona (60 mg, 23% de rendimiento).

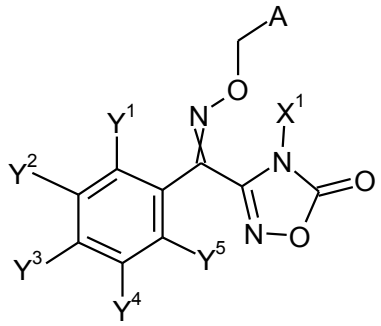
Ejemplo 10 de Preparación: {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de 2-metilpentan-2-ilo (compuesto 233) según el proceso P10

A una disolución de 3-[(Z)-{[(2-amino-1,3-tiazol-4-il)metoxi]imino}(fenil)metil]-4-metil-1,2,4-oxadiazol-5(4H)-ona (120 mg, 0,369 mmol, 1 eq.) en acetonitrilo (3 ml) se añadió 4-fluorofenilcarbonoclorhidrato (70,8 mg, 0,406 mmol, 1.1 eq.), seguido de piridina (0,030 mL, 0,369 mmol, 1 eq.) y se mantuvo la agitación durante 2 horas a temperatura ambiente. A continuación se añadió 2-metil-4-pentan-2-ol (0,050 mL, 0,406 mmol, 1.1 eq.) y la mezcla resultante se mantuvo a reflujo durante 5h. Después de concentración, el residuo se purificó por cromatografía sobre gel de sílice para proporcionar {6-[({[(Z)-(4-metil-5-oxo-4,5-dihidro-

1,2,4-oxadiazol-3-il)(fenil)metilen]amino}oxi)metil]piridin-2-il}carbamato de 2-metilpentan-2-ilo (105 mg, 59% de rendimiento) como un aceite transparente.

REIVINDICACIONES

1. Un compuesto de fórmula (I)

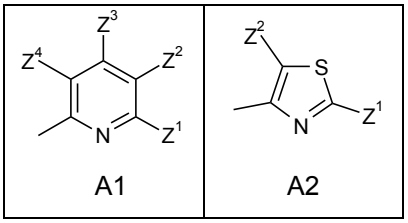


(I)

en la que

- X^1 representa un átomo de hidrógeno, un grupo formilo, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquenilo-C_2-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alquilcarbonilo-C_1-C_8 sustituido o sin sustituir;

- A se selecciona de la lista que consiste en A^1 a A^2 :



A1 A2

en la que

- Z^1 representa un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, un grupo amino, un grupo hidroxiamino, un grupo hidroxi, un grupo ciano, un grupo alcoxi-C_1-C_8-amino sustituido o sin sustituir, alquil-C_1-C_8-amino sustituido o sin sustituir, un alquenil-C_2-C_8-amino sustituido o sin sustituir, alquinil-C_2-C_8-amino sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir, o un grupo de fórmula $QC(=U)NR^a$

en donde :

- Q representa un átomo de hidrógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8 sustituido o sin sustituir, cicloalquenilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiniloxi-C_2-C_8 sustituido o sin sustituir, alquil-C_1-C_8-amino sustituido o sin sustituir, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, alquenil-C_2-C_8-sulfenilo sustituido o sin sustituir, alquinil-C_2-C_8-sulfenilo sustituido o sin sustituir, arilsulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, bicicloalquilo-C_5-C_{12} condensado sustituido o sin sustituir, bicicloalquenilo-C_5-C_{12} condensado sustituido o sin sustituir, carbociclilo-C_5-C_{12} benzocondensado sustituido o sin sustituir, heterociclilo-C_5-C_{12} benzocondensado sustituido o sin sustituir, cicloalcoxi sustituido o sin sustituir; cicloalqueniloxi sustituido o sin sustituir, ariloxi sustituido o sin sustituir; heterocicliloxi sustituido o sin sustituir, bicicloalcoxi-C_5-C_{12} condensado sustituido o sin sustituir, bicicloalqueniloxi-C_5-C_{12} condensado sustituido o sin sustituir, carbocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir, heterocicliloxi-C_5-C_{12} benzocondensado sustituido o sin sustituir;

- U representa un átomo de oxígeno o un átomo de azufre;

- R^a representa un átomo de hidrógeno, un grupo hidroxi, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, cicloalquenilo-C_3-C_{10} sustituido o sin sustituir, bicicloalquilo-C_5-C_{12} condensado sustituido o sin sustituir, bicicloalquenilo-C_5-C_{12} condensado sustituido o sin sustituir, arilo sustituido o sin sustituir, o heterociclilo sustituido o sin sustituir, alquil-C1-C_8-carbonilo sustituido o sin sustituir, ariloxicarbonilo sustituido o sin sustituir, alcoxi-C_1-C_8-carbonilo sustituido o sin sustituir;

- Z^2, Z^3 y Z^4 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, un alquenilo-C_2-C_8, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir;

- Y^1 a Y^5 representan independientemente un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, a un grupo ciano, un carbaldehído O-(C_1-C_8-alquilo)oxima sustituido o sin sustituir, un grupo pentafluoro- λ^6-sulfenilo, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, halogenoalquilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, un alquenilo-C_2-C_8, un alquinilo-C_2-C_8 sustituido o

sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, halogenoalcoxi-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiloxi-C_3-C_8-sustituido o sin sustituir, N-(alcoxi-C_1-C_8)-alcanimidoilo-C_1-C_8 sustituido o sin sustituir, N-(alcoxi-C_1-C_8)-halogenoalcanimidoilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alcoxi-C_1-C_8-carbonilo sustituido o sin sustituir, alquil-C_1-C_8-carboniloxi sustituido o sin sustituir, alquil-C_1-C_8-sulfinilo sustituido o sin sustituir, alquil-C_1-C_8-sulfonilo sustituido o sin sustituir, fenoxi sustituido o sin sustituir, fenilsulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, tri(alquil-C_1-C_8)-sililoxi sustituido o sin sustituir, tri(alquil-C_1-C_8)-sililo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, heterocicliloxi sustituido o sin sustituir;

así como sus sales, N-óxidos, complejos metálicos y complejos metaloides, o sus isómeros (E) y (Z) y sus mezclas.

2. Un compuesto según la reivindicación 1, en donde X^1 representa un átomo de hidrógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir o un alquenilo-C_2-C_8 sustituido o sin sustituir.

3. Un compuesto según la reivindicación 2, en donde X^1 representa un átomo de hidrógeno, un grupo metilo, un grupo etilo, un grupo n-propilo, un grupo isopropilo o un grupo ciclopropilo.

4. Un compuesto según una cualquiera de las reivindicaciones 1 a 3 en donde A representa A^1.

5. Un compuesto según una cualquiera de las reivindicaciones 1 a 4 en donde Z^1 representa un átomo de hidrógeno, un átomo de halógeno, un grupo nitro, un grupo amino, un grupo hidroxiamino, un grupo alcoxiamino-C_1-C_8 sustituido o sin sustituir, alquilamino-C_1-C_8 sustituido o sin sustituir, cicloalquil-C_3-C_{10}-amino sustituido o sin sustituir, cicloalquenil-C_3-C_{10}-amino sustituido o sin sustituir, bicicloalquil-C_5-C_{12}-amino condensado sustituido o sin sustituir, bicicloalquenil-C_5-C_{12}-amino condensado sustituido o sin sustituir, di-alquil-C_1-C_8-amino sustituido o sin sustituir, fenilamino sustituido o sin sustituir, heterociclilamino sustituido o sin sustituir o un grupo de fórmula $QC(=U)NR^a$-

6. Un compuesto según la reivindicación 5 en donde Z^1 representa un grupo amino, o un grupo de fórmula $QC(=U)NR^a$.

7. Un compuesto según una cualquiera de las reivindicaciones 1 a 6 en donde U representa un átomo de oxígeno

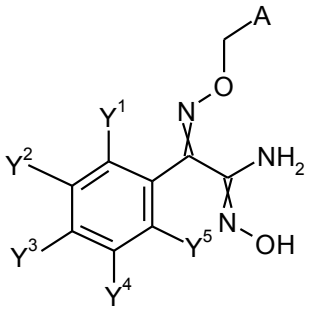
8. Un compuesto según una cualquiera de las reivindicaciones 1 a 7 en donde R^a representa un átomo de hidrógeno, un grupo hidroxi, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir

9. Un compuesto según una cualquiera de las reivindicaciones 1 a 8 en donde Q representa un alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, alquinilo-C_2-C_8 sustituido o sin sustituir, alcoxi-C_1-C_8 sustituido o sin sustituir, alqueniloxi-C_2-C_8 sustituido o sin sustituir, alquiniloxi-C_2-C_8 sustituido o sin sustituir, alquil-C_1-C_8-sulfenilo sustituido o sin sustituir, arilo sustituido o sin sustituir, heterociclilo sustituido o sin sustituir, cicloalcoxi-C_3-C_8 sustituido o sin sustituir.

10. Un compuesto según una cualquiera de las reivindicaciones 1 a 9 en donde Z^2, Z^3 y Z^4 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo-C_1-C_8 sustituido o sin sustituir.

11. Un compuesto según una cualquiera de las reivindicaciones 1 a 10, en donde Y^1 a Y^5 representan independientemente un átomo de hidrógeno, un átomo de halógeno, alquilo-C_1-C_8 sustituido o sin sustituir, cicloalquilo-C_3-C_8 sustituido o sin sustituir, halogenoalquilo-C_1-C_8 sustituido o sin sustituir que tiene de 1 a 5 átomos de halógeno, alcoxi-C_1-C_8 sustituido o sin sustituir.

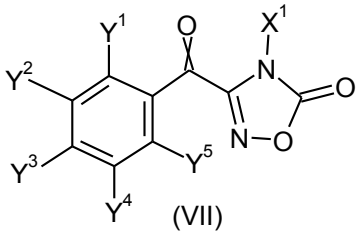
12. Un compuesto de fórmula (V)



(V)

en donde A, Y^1, Y^2, Y^3, Y^4 y Y^5 son como se definen en una cualquiera de las reivindicaciones 1 a 11.

13. Un compuesto de fórmula (VII)



(VII)

en donde Y^1, Y^2, Y^3, Y^4, Y^5 son como se definen en una cualquiera de las reivindicaciones 1 a 11 y X^1 representa alquilo-C_1-C_8 sustituido o sin sustituir.

14 . Una composición fungicida que comprende, como ingrediente activo, una cantidad eficaz de un compuesto de fórmula (I) de acuerdo con las reivindicaciones 1 a 11 y un soporte, vehículo o carga aceptable desde un punto de vista agrícola.

15 . Una composición fungicida según la reivindicación 14 que comprende al menos un ingrediente activo adicional seleccionado del grupo de los insecticidas, atrayentes, esterilizantes, bactericidas, acaricidas, nematicidas, fungicidas, reguladores del crecimiento, herbicidas, fertilizantes, aseguradores, agentes biológicos y semioquímicos.

16 . Un método para controlar los hongos fitopatógenos de los cultivos, caracterizado porque se aplica una cantidad eficaz en el sector agronómico y sustancialmente no fitotóxica de un compuesto de acuerdo con una cualquiera de las reivindicaciones 1 a 11, o de una composición fungicida de acuerdo con la reivindicación 14 ó 15 , en el suelo en el que crecen o pueden crecer las plantas, en las hojas y/o en los frutos o en las semillas de las plantas.

17. Uso de compuestos de la fórmula (I) según una cualquiera de las reivindicaciones 1 a 11 para luchar contra hongos fitopatógenos dañinos.

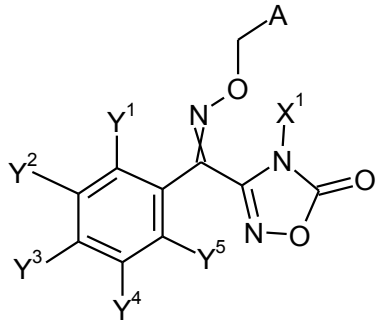
18. Proceso para producir composiciones para luchar contra hongos fitopatógenos dañinos, caracterizado por que se mezclan derivados de la fórmula (I) según una cualquiera de las reivindicaciones 1 a 11 con extensores y/o tensioactivos.

19. Uso de compuestos de la fórmula (I) según una cualquiera de las reivindicaciones 1 a 11 para el tratamiento de plantas transgénicas.

20. Uso de compuestos de la fórmula (I) según una cualquiera de las reivindicaciones 1 a 11 para el tratamiento de las semillas y de las semillas de plantas transgénicas.

RESUMEN

La presente invención proporciona derivados de 3-{fenil[(heterociclilmetoxi)imino]metil}-1,2,4-oxadiazol-5(4H)-ona sustituidos en 4 de fórmula (I)



(I)

en donde A representa un grupo piridilo o tiazol y X1, Y1 a Y5 representan independientemente diferentes sustituyentes.

BAKER & MCKENZIE

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Fax: +57 1 376 2211
www.bakermckenzie.com

POWER OF ATTORNEY

The undersigned.

Bayer Intellectual Property GmbH

located at

Alfred-Nobel-Strasse 10, 40789 Monheim, Germany

declares that it hereby grants to

ÁLVARO CORREA-ORDOÑEZ and/or RICARDO METKE MENDEZ and/or JUAN PABLO CONCHA-DELGADO

of the firm Baker & McKenzie Colombia S.A members of Baker & McKenzie, domiciled at Av. 82 No. 10-62, 6th floor, of Bogotá D.C., Colombia, full and sufficient power of attorney to pursue before the competent authorities the following matters:

Trademark registrations and renewals; deposit and registration of commercial names and commercial ensigns; registration and renewal of domain names; Prosecution and obtainment of patents, utility models, industrial designs, integrated circuits layout-designs and vegetal varieties; recordals of mergers, changes of name, assignments, changes of domicile and address; security interests; liens and other acts that affect or limit the mentioned industrial property rights; filing and prosecution of oppositions; recordal of license of use agreements; filing and prosecution of cancellation actions, annulment actions, annulment and reinstatement of right action, and all judicial actions available for the prosecution of proceedings related to intellectual property matters, unfair competition, and protection of consumers.

to which end it empowers them to file requests, petitions and lawsuits, appeals and objections, pay taxes, receive, including faculties to enter into settlement agreements, conciliations and transactions, abandon applications and renounce rights and, in general, to take all the actions before the competent authorities in order to duly protect our intellectual property. To the said mandatories sufficient power is granted hereby to receive notifications for and on behalf of the Company, to confer powers on those who are to represent the Company judicially and extrajudicially, to answer in court in the matter of all claims and demands that may be presented in connection with the marks and other intellectual property rights, and to do everything that may be required before administrative or judicial officers of any class to comply this power, giving them likewise faculty to substitute these presents and revoke such substitutions if necessary.

Done and subscribed in **Leverkusen**

ppa. Dr. Stephan Semrau, (Senior Counsel)

On the **24th** day of **April** of 2013

PODER

La abajo firmada,

Bayer Intellectual Property GmbH

domiciliada en

Alfred-Nobel-Strasse 10, 40789 Monheim, Alemania

declara por el presente que otorga a

ÁLVARO CORREA-ORDÓÑEZ y/o RICARDO METKE MÉNDEZ y/o JUAN PABLO CONCHA-DELGADO

de la firma Baker & McKenzie Colombia S.A., miembros de Baker & McKenzie, domiciliada en la Av. 82 No. 10-62 Piso 6 en Bogotá D.C., Colombia, poder especial amplio y suficiente, para adelantar ante las autoridades competentes los siguientes asuntos:

Registro y renovación de marcas; depósito y registro de nombres comerciales y enseñas comerciales; registro y renovación de nombres de dominio; trámite y obtención de solicitudes de patentes de invención, modelos de utilidad, diseños industriales, esquemas de trazado de circuitos integrados y variedades vegetales; inscripción de fusiones, cambios de nombre, traspasos, cambios de domicilio y de dirección; inscripción de contratos de prenda, embargos y otros actos que afecten o limiten los mencionados derechos de propiedad industrial; presentación y tramitación de oposiciones; inscripción de licencias de uso; presentación y tramitación de acciones de cancelación; acciones de nulidad, acciones de nulidad y restablecimiento del derecho y demás acciones judiciales, relacionadas con procesos de propiedad industrial , competencia desleal y protección al consumidor.

a cuyo efecto los faculta para presentar solicitudes, peticiones y demandas, interponer recursos, reclamos, pagar impuestos y tasas, recibir, transigir y desistir, incluyendo facultades para entrar en acuerdos amigables, conciliaciones y transacciones, abandonar solicitudes y renunciar a derechos, y en general, a dar ante las autoridades competentes todos los pasos necesarios para la debida protección de nuestra propiedad industrial. Asimismo se concede a los expresados mandatarios poder suficiente para recibir notificaciones a nombre de la compañía, otorgar poderes a quienes vayan a representar a la compañía judicial y extrajudicialmente, responder en juicio a todas las reclamaciones o demandas que por motivo de marcas y otros derechos de propiedad industrial se presentaren y hacer cuanto fuere necesario ante las autoridades administrativas o judiciales de cualquier orden para el cumplimiento de este mandato, dándoles igualmente facultad para sustituir el presente poder y en caso necesario, revocar dichas sustituciones.

Dado y firmado en

A los . días del mes de de 20

URNr. 836/2013

1. I certify that the individual, named

   Mr. Dr. Stephan Semrau, business address: c/o Bayer Intellectual Property GmbH, Alfred-Nobel-Straße 10, 40789 Monheim, Germany,

   appeared before me and executed the foregoing document and signed personally

   - personally known to me -.

   I confirm that Mr. Dr. Stephan Semrau is authorised representative of Bayer Intellectual Property GmbH in Monheim and having today electronically inspected the commercial register of the local court in Düsseldorf is recorded in Section B 67604 as severally authorised representative.

2. Ich beglaubige die vor mir vollzogene Unterschrift von :

   Herrn Dr. Stephan Semrau, geschäftsansässig: c/o Bayer Intellectual Property GmbH, Alfred-Nobel-Straße 10, 40789 Monheim, Deutschland,

   - von Person bekannt -.

   Ich bescheinige aufgrund elektronischer Einsicht vom heutigen Tage in das Handelsregister des Amtsgerichts Düsseldorf - HRB 67604 -, dass Herr Dr. Stephan Semrau berechtigt ist, die Bayer Intellectual Property GmbH in Monheim als Prokurist einzeln zu vertreten.

Leverkusen, den 24. April 2013

Klaus Striewski
(Notar in Leverkusen)


APOSTILLE
(Convention de La Haye du 5 octobre 1961)
1. Land: Bundesrepublik Deutschland
Diese öffentliche Urkunde
2. ist unterschrieben von Klaus Striewski
3. in seiner Eigenschaft als Notar
4. sie ist versehen mit dem Siegel des Notars Klaus Striewski
Bestätigt
5. in Köln
6. am 02.05.2013
7. durch den Vizepräsidenten des Landgerichts
8. unter Nr.: 2341/13
9. Stempel:
10. Unterschrift:
Schmitz-Justen
Der Präsident des Landgerichts Köln
15

3. Certifico la firma realizada ante mí por

el Señor Dr. Stephen Semrau, con domicilio comercial: c/o Bayer Intellectual Property, GmbH, Alfred Nobel Strasse 10, 40789 Monheim, Deutschland,

-conocido personalmente-

Certifico con base en la revisión electrónica realizada el día de hoy en el Registro Mercantil del Tribunal de Distrito de Düsseldorf –HRB 67604– que el Señor Dr. Semrau está autorizado a representar como Director Ejecutivo a la firma Bayer Intellectual Property GmbH en Monheim.

Leverkusen, abril 24 de 2013

(Firmado)

Klaus Striewski

(Firma ilegible)

Apostilla

(Convención de La Haya de 5 de octubre de 1961)

1. País: Alemania Federal

Este documento público

2. Es firmado por: Klaus Striewski

3. En su calidad de Notario

4. Está provisto con el sello del

Notario Kluas Striewski

certificado notarialmente

5. En: Colonia, **6. A:** los 2 días del mes de mayo de 2013

7. Por el Vicepresidente de la Audiencia Provincial del Land

8. Con el número 2341/13

9. Sello: (Sello de tinta de la Presidencia de la Audiencia Provincial de Colonia 1)

10. Firmado:

Schmitz-Justen (Firma ilegible)

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92*bis*.1 and Administrative Instructions, Section 422)

To:

GUITTON, Carole
Bayer SAS
Patents & Licensing Department
14 impasse Pierre Baizet
CS 99163
F-69263 Lyon Cedex 09
FRANCE

Date of mailing *(day/month/year)*
08 January 2014 (08.01.2014)

Applicant's or agent's file reference
BCS 11-4008

IMPORTANT NOTIFICATION

International application No.
PCT/EP2012/067596

International filing date *(day/month/year)*
10 September 2012 (10.09.2012)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address
COQUERON, Pierre-Yves
Albertus Strasse 16
Köln 50667
Germany

State of Nationality: FR
State of Residence: DE
Telephone No.:
Facsimile No.:
E-mail address:

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☒ the residence

Name and Address
COQUERON, Pierre-Yves
Rue Masaryk
F-69009 Lyon
France

State of Nationality: FR
State of Residence: FR
Telephone No.:
Facsimile No.:
E-mail address:
☐ Notifications by e-mail authorized

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office
☐ the International Searching Authority
☐ the Authority(ies) specified for supplementary search
☐ the International Preliminary Examining Authority
☒ the designated Offices concerned
☐ the elected Offices concerned
☐ other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 89 70

Authorized officer
Kirchner Maria
e-mail pt06.pct@wipo.int
Telephone No. +41 22 338 74 06

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ASSIGNMENT

BRAUN, Christoph
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LACHAISE, Hélène
BRUNET, Stéphane
RINOLFI, Philippe
DUBOST, Christophe
COQUERON, Pierre-Yves
MAECHLING, Simon
REBSTOCK, Anne-Sophie
WACHENDORFF-NEUMANN, Ulrike

by means of this document assign(s) to

BAYER INTELLECTUAL PROPERTY GmbH

A company organized under the laws of

Germany

Domiciled in

Alfred-Nobel-Strasse 10 40789 Monheim, Germany

all my (our) rights, title and interest in and to my (our) invention entitled and as fully set forth and described in:

FUNGICIDAL 4-SUBSTITUTED-3-{PHENYL[(HETEROCYCLYLMETHOXY)IMINO]METHYL}-1,2,4-OXADIZOL-5(4H)-ONE DERIVATIVES

So far as the Republic of Colombia is concerned and any other country in which the application is filed.

Done and subscribed in

On the 25 day of FEBRERO of 2014

Signature of the inventors

C. BRAUN H. SAWADA H. LACHAISE

S. BRUNET P. RINOLFI C. DUBOST

P.Y. COQUERON S. MAECHLING A.S. REBSTOCK U. WACHENDORFF-NEUMANN

CESION

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REBSTOCK, Anne-Sophie
WACHENDORFF-NEUMANN, Ulrike

por medio de la presente cedo (cedemos) a

BAYER INTELLECTUAL PROPERTY GmbH

Una compañía organizada bajo las leyes de

Alemania

domiciliada en

Alfred-Nobel-Strasse 10 40789 Monheim, Alemania

todos mis (nuestros) derechos, título e interés sobre mi (nuestra) invención titulada y tal como describe en:

DERIVADOS FUNGICIDAS DE 3-(FENIL(C HETEROCICLILMETOXI)IMINO]METIL) 1,2,4-OXADIAZOL-5(4H)-ONA SUSTITUIDOS EN 4.

en lo que concierne a la República de Colombia y cualquier otro país del mundo en donde se presente la solicitud.

Dado y firmado en

A los 25 días del mes de FEBRERO de 2014

Firma de los inventores

BAKER & McKENZIE

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Done and subscribed in

On the 25 day of FEBRERO of 2014

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Dado y firmado en

A los 25 días del mes de FEBRERO de 2014

Firma de los inventores