CSA055477

Industria y Comercio

SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
INVENTARIO

95

Organizacion y
Digitalizacion CSA Ltda

Delegatura de Propiedad Industrial

División de Nuevas Creaciones

PCT

SOLICITUD

PATENTE DE INVENCIÓN

1. **EXPEDIENTE No.** 09-63567

4. **TÍTULO** COMPUESTOS DE PIRIMIDILMETIL-SULFONAMIDA USADOS COMO FUNGICIDAS Y CONTRA ARTROPODOS

1. **CLASIFICACIÓN INTERNACIONAL**

1. **SOLICITANTE** BASF SE

DOMICILIO LUDWIGSHAFEN, ALEMANIA

4. **APODERADO** EMILIO FERRERO
C.C. 438.019 de Usaquén

2. **BOGOTÁ, D. C.,**

FORMA P-(10)

Industria y Comercio
SUPERINTENDENCIA

PETITORIO

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 09-063567- -00000-0000
Fecha: 2009-06-18 17:16.05 Dep: 2020 NUECREACIONE
Tra. 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 411 PRESENTACION Folios: 324

FORMULARIO UNICO DE SOLICITUD DE PATENTE PCT ENTRADA EN FASE NACIONAL

1 SOLICITUD DE:

☒ Patente de Invención. ☐ Patente de Modelo de Utilidad.
☐ Capítulo I. ☒ Capítulo II.

2 SOLICITANTE (71)

Nombre: **BASF SE**
sociedad constituida y existente bajo las leyes de Alemania.

Dirección: 67056 Ludwigshafen, Alemania

Domicilio: Ludwigshafen, Alemania

IDENTIFICACIÓN
C.C. ☐ NIT ☐
C.E. ☐ Otro ☐
Cual ____
Número ____

3 REPRESENTANTE O APODERADO

Nombre: EMILIO FERRERO
Dirección: Carrera 4ª. No. 72-35
Teléfono: 347 36 11
Fax: 211 86 50
E-mail: clientes@cavelier.com
Domicilio: Bogotá, Colombia.

IDENTIFICACIÓN
C.C. ☒ NIT ☐
C.E. ☐ Otro ☐
Cual ____
Número 438.019 T.P 31.929

4 INVENTOR (ES) (72)

1. **Jan Klaas LOHMANN**
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67063 Ludwigshafen,
Alemania

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Alemania

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Alemania

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68167 Mannheim,
Alemania

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Stockingerstr. 7,
67227 Frankenthal,
Alemania

6. **Joachim RHEINHEIMER**
Merziger Str. 24,
67063 Ludwigshafen,
Alemania

7. **Jens RENNER**
Lorbeerweg 2,
67098 Bad Dürkheim,
Alemania

8. **Marianna VRETTOU**
Am Oberen Luisenpark 22,
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Alemania

9. **Sarah ULMSCHNEIDER**
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67098 Bad Dürkheim,
Alemania

10. **Thomas GROTE**
Im Höhnhausen 18,
67157 Wachenheim,
Alemania

5 PCT (86)

Solicitud Internacional No. PCT/EP2007/062630 Fecha: 21 de noviembre de 2007
Publicación Internacional No. WO 2008/062011 A1 Fecha: 29 de mayo de 2008

6 Título (54)

COMPUESTOS DE PIRIMIDILMETIL-SULFONAMIDA USADOS COMO FUNGICIDAS Y CONTRA ARTRÓPODOS

7 **Clasificación Int rnacional (51)** C07D 239/020

8 **Prioridad** SI☒ NO☐	(33) País de Origen	(32) Fecha	(31) Número de Solicitud
	EP	22 de noviembre de 2006	06124589.0

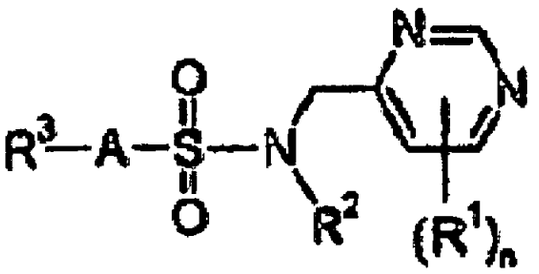
9 **Comprobante de pago No.:** 09-41,947 **Fecha:** 8 de junio de 2009
09-38,494 26 de mayo de 2009

10 **Anexos:**

- ☒ Comprobante de pago de la tasa de presentación de la solicitud por $ 540.000.oo.
- ☒ Comprobante de pago por 10 reivindicaciones adicionales después de la decimoquinta reivindicación por $250.000.oo.
- ☒ Documento que acredita la existencia y representación legal cuando el solicitante sea persona jurídica.
- ☒ Poderes, si fuere el caso.
- ☒ Documento de cesión del inventor al solicitante o a su causante.
- ☐ Declaraciones.
- ☒ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos)
- ☒ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujos)
- ☒ Copia del examen preliminar efectuado por la IPEA.
- ☐ Traducción del examen preliminar efectuado por la IPEA.
- ☐ De ser el caso, copia del contrato de acceso.
- ☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas.
- ☐ De ser el caso, certificado de depósito del material biológico.
- ☒ Arte final 12x12
- ☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- ☒ Otros: VER HOJA DE DOCUMENTOS ANEXOS

11

FIGURA CARACTERÍSTICA



(I)

12 Solicito la concesión de la patente,

NOMBRE: EMILIO FERRERO

FIRMA :

C.C. 438.019 de Usaquén T.P. 31.929

JGG

DOCUMENTOS ANEXOS

1. ☒ Publicación Internacional WO 2008/062011 A1
   Descripción:
   Páginas 163 en el idioma original
   Páginas 110 en español
   Reivindicaciones: Número (s) 25
   Figuras: Número (s)

2. ☒ **Forma PCT/ISA/210.** Informe de Búsqueda Internacional.

3. ☒ **Forma PCT/IB/306.** Notificación de la inscripción del cambio de nombre de la solicitante de **BASF AKTIENGESELLSCHAFT** a **BASF SE** y de la dirección de la inventora **Marianna VRETTOU.**

4. ☒ Extracto de publicación.

NO SE REALIZARON MODIFICACIONES EN LA FASE INTERNACIONAL

El poder solo valdrá 1337

5

CAVELIER
ABOGADOS
EDIFICIO SISKI
CARRERA 4a N° 72-35
BOGOTA, 8 - COLOMBIA

179

Representación y Poder con autenticación notarial y Apostille para patentes, modelos de utilidad, diseños industriales, marcas de fábrica, nombres comerciales, enseñas, nombres de dominio, lemas comerciales, licencias.

Representation and Power-of- Attorney with notarial authentication and Apostille for patents, utility models, industrial designs, trademarks, commercial names, trade emblems, domain names, slogans, licenses.

REPRESENTACION Y PODER

REPRESENTATION AND POWER- OF- ATTORNEY

16452
6617

Yo (nosotros), abajo firmado (s)/I (we), the undersigned

BASF SE

domiciliado (s) en/of 67056 Ludwigshafen, Germany

por el presente nombramos a EMILIO FERRERO, tpa. 31929; LUZ CLEMENCIA DE PAEZ, tpa. 23555 y DANIEL PEÑA, tpa. 65620, domiciliados en la Carrera 4ª N° 72–35, Bogotá, Colombia, en ordenamiento a lo dispuestó en el parágrafo 1o del Artículo 543 del Código de Comercio, el primero como principal y los demás como suplentes, en su orden, como mis (nuestros) representantes en todos los asuntos de propiedad industrial con facultad para recibir notificaciones y nombrar apoderados judiciales o extrajudiciales. El primer representante suplente reemplazará al principal en caso de ausencia o impedimento temporal o definitivo de aquél. La misma regla se aplicará cuando el segundo representante suplente haya de reemplazar al primero, o el tercero al segundo. En tales casos, el representante principal, o el primero, o segundo suplente, en su caso, o ambos, declararán su intención de no ejercer la representación mediante declaración autenticada por Notario Público en Colombia, o por Notario u otro Funcionario Público, o Cónsul de Colombia, en el extranjero; y si se tratare de impedimento, con el certificado respectivo. Si alguno de los nombrados faltare definitivamente, el siguiente tomará su lugar. Cuando cesare la ausencia o impedimento del representante principal, o de su primero o segundo suplentes, en su caso, podrán ejercer la representación, en su orden, uno u otros según el caso, asumiéndola por el solo hecho de ejercerla, cesando en ese momento el ejercicio de la representación por el primero, segundo o tercer suplente en su caso.

in due compliance with the terms of paragraph 1st. of article 543 of the Commercial Code, do hereby appoint EMILIO FERRERO, tpa. 31929; LUZ CLEMENCIA DE PAEZ, tpa. 23555 and DANIEL PEÑA, tpa. 65620, domiciled at Carrera 4ª N° 72–35, Bogotá, Colombia, the first as principal and the others as alternates, in the order of their appointment, as our representatives for all industrial property matters with faculty to receive notifications and to appoint attorneys in and out of Court. The first alternate shall replace the principal in case of his absence or of temporal or definitive impediment. The same rule will apply when the second alternate representative is to replace the first one, or when the third is to replace the first or second alternates in their turn, or both of them, second. In such cases, the principal representative, or the first or second alternates in their turn, or both of them, shall state their intention not to act as representatives through a declaration given before a Notary Public in Colombia, or before a Notary or another Public Official or a Colombian Consul abroad; and in case of impediment, the appropriate certificate shall suffice. If any of the appointees were to be definitely absent, the following alternate shall take his place. When the absence or impediment of the principal representative, or of the first or second alternate in their turn ceases, the representation can be taken again in their sequence, by the principal, the first or second alternate depending on case, and the mere fact or its exercise will suffice. The exercise of the representation by the first, second or third alternates in their turn shall end at such time.

Además, confiero (conferimos) poder a los abogados arriba nombrados, para obtener la protección de mi (nuestra) propiedad industrial y contra la competencia desleal, a cuyo efecto autorizo (amos) a los dichos apoderados para que me (nos) representen ante cualesquiera entidades o personas, ejerzan o no jurisdicción, especialmente ante las del orden administrativo, contencioso–administrativo y judicial, así como los arbitrales de arbitramento, en todo lo concerniente a los siguientes asuntos: a) Obtención de patentes de invención, modelos de utilidad, y diseños industriales; el registro de marcas de fábrica, colectivas, defensivas, de servicio, lemas comerciales, nombres comerciales, enseñas, nombres de dominio, variedades vegetales y denominaciones de origen; su renovación, traspaso, cambio de nombre o domicilio, cancelación voluntaria; y el registro de licencias de uso de esos derechos; b) las acciones de competencia desleal, protección del consumidor, oposiciones u observaciones, cancelación administrativa y judicial, nulidad, medidas cautelares, concesión de licencias, la tutela, la

In addition, we grant a Power of Attorney in favor of the above–named attorneys–at–law so that they may obtain the protection of my (our) industrial property and against the unfair competition, for which purpose I (we) authorize the said attorneys to represent me (us) before any authorities or persons, with or without jurisdiction, specially those administrative, administrative contentious and judicial, as well as before Arbitration Courts, in all matters concerning the following: a) Obtainment of patents, utility models and industrial designs, registration of trademarks, collective, defensive and service marks, slogans, commercial names, trade emblems, domain names, vegetal varieties and denominations of origin; its renewal, assignment, change of name or domicile, voluntary cancellation; and the registration of licenses of use of the above rights; b) Unfair competition, protection to the consumer, oppositions or observations, administrative or Court cancellation, nullity, infringement, granting of licenses, the action for writ mandamus, the protection of trade secrets, and in general the civil, penal,

NOTARIA 67 DEL CIRCULO DE BOGOTA D.C.
COPIA QUE LA PRESENTE COINCIDE
CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO PIRAQUIVE

ión de secretos industriales, y en general los juicios civiles, , administ.ativos o contencioso_administrativos relacionados con lerechos; acciones y procesos que promovamos o se nos :van. Y para que en todos los asuntos arriba determinados, puedan ' este mandato, transigir, conciliar, admitir los hechos del), desistir, cancelar, recibir, renunciar, y ratificar los actos de ; oficiosos.

and administrative suits relating to those rights; actions and suits instituted by me (us) or against me (us). And that in all the above matters they may substitute this Power of Attorney, compromise, conciliate, admit the facts of the case, desist, cancel, receive, resign, and ratify acts done by representatives without a power of attorney.

Dado y firmado hoy/Given and signed this 3rd day of April 2008

en/in Ludwigshafen am Rhein

por/by _____

_____

Firma BASF SE

Signatura ppa. ppa.

Dr. Thomas Cimniak Dr. Alexander Wallon

directors

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

U.R.Nr. 819 /2008

I, Ludwig Draxel-Fischer, notary public at Ludwigshafen/Rhine, Federal Republic of Germany, hereby testify and confirm that the foregoing twice mentioned signatures of

1. graduate chemist Dr. Thomas **Cimniak**, chemist, at Ludwigshafen/Rhine, personally known to me,

2. graduate chemist Dr. Alexander **Wallon**, chemist at Ludwigshafen/Rhine, personally known to me,

are true and valid.

Graduate chemist Dr. Cimniak and graduate chemist Dr. Wallon are acting on behalf of BASF SE at Ludwigshafen/Rhine.

After having checked today the competent register of commerce, I herewith confirm that **graduate chemist Dr. Cimniak and graduate chemist Dr. Wallon** are directors who are authorized to jointly represent **BASF SE (Societas Europaea = European Company)**, Ludwigshafen/Rhine. I certify that this firm is a legal person duly organized under the laws of the Federal Republic of Germany and ander the laws of the EUROPEAN UNION and that it is registered at the District Court of Ludwigshafen/Germany **(HR B 6000)**.

Ludwigshafen/Rhine, this 3rd day of April, 2008

notary public

NOTARIA SEXTA DEL CIRCULO DE BOGOTA, D.C. DA FE Y PAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA BOGOTA D.C., REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

Wert: 5.112,92 Euro

Abschrift

...mity with Sec. 21 of the Fede... ...tories (BNotO)

8.

1337

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Land : Bundesrepublik Deutschland
   Diese öffentliche Urkunde
2. ist unterschrieben von Notar
   D r a x e l - F i s c h e r
3. in seiner Eigenschaft als
   öffentlicher Notar
4. sie ist versehen mit dem Siegel/Stempel
   des Notars Ludwig Draxel-Fischer
   in Ludwigshafen am Rhein

Bestätigt

5. in Frankenthal (Pfalz)
6. am 7. April 2008
7. durch den Präsidenten des Landgerichts
8. unter Nr. 91 Eb - 511/08

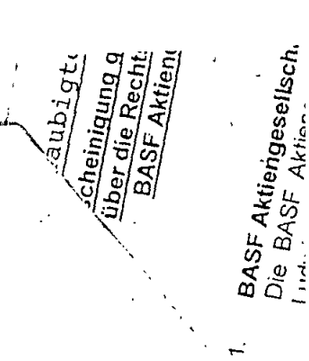
9. Siegel/Stempel:

10. Unterschrift
    Im Auftrag

.....
(Christian Köneke)
Richter am Landgericht

Kostenvermerk:
Gebühr 12,-- €

...NOTARIA SEXTA DEL CIRCULO DE BOGOTA
...HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE
...EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA



NOTARIA SEXTA DEL CIRCULO DE BOGOTA
DOY FE QUE HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE
CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO
NOTARIA

Glaubigte Abschrift

Bescheinigung gemäß § 21 BNotO über die Rechtsnachfolge der BASF Aktiengesellschaft

1. **BASF Aktiengesellschaft**
Die BASF Aktiengesellschaft mit dem Sitz in Ludwigshafen am Rhein, Bundesrepublik Deutschland, war in der Rechtsform der Aktiengesellschaft deutschen Rechts bis zum 14.01.2008 im Handelsregister des Amtsgerichts -Registergericht- Ludwigshafen am Rhein, Bundesrepublik Deutschland unter HRB 3000 eingetragen.

2. **BASF SE**
Die BASF Aktiengesellschaft wurde mit Beschluss der Hauptversammlung vom 26.04.2007 im Wege des Formwechsels nach Maßgabe des Umwandlungsplanes vom 27.02.2007 in die BASF SE mit dem Sitz in Ludwigshafen am Rhein, Bundesrepublik Deutschland umgewandelt.
Die BASF SE mit dem Sitz in Ludwigshafen am Rhein, Bundesrepublik Deutschland ist seit dem 14.01.2008 in der Rechtsform der Societas Europaea im Handelsregister des Amtsgerichts -Registergericht- Ludwigshafen am Rhein, Bundesrepublik Deutschland unter HRB 6000 eingetragen.

Die BASF SE ist deshalb Rechtsnachfolgerin der BASF Aktiengesellschaft.

Ausweislich des Artikel 37 Abs. 2 der VERORDNUNG (EG) Nr. 2157/2001 DES RATES vom 08. Oktober 2001 über das Statut der Europäischen Gesellschaft (SE) hatte diese Umwandlung weder die Auflösung der Gesellschaft noch die Gründung einer neuen juristischen Person zur Folge.

3. **Nachweis**
Die vorbeschriebene Rechtsnachfolge stelle ich, Notar, hiermit fest aufgrund meiner heutigen Einsicht in die zwei genannten Handelsregister.

Ludwigshafen am Rhein (Bundesrepublik Deutschland), den 14. Januar 2008

Ludwig Drautz-Fischer * Notar in Ludwigshafen am Rhein

Notar/Notary Public

certified copy

Certificate in conformity with Sec. 21 of the Federal German Ordinance for Notaries (BNotO) concerning the legal succession of BASF Aktiengesellschaft

1. **BASF Aktiengesellschaft**
BASF Aktiengesellschaft with registered office in Ludwighafen am Rhein, Federal Republic of Germany, was registered in the form of a stock corporation [Aktiengesellschaft] in the commercial register of the district court -court of registry- in Ludwigshafen am Rhein, Federal Republic of Germany, under the entry number HRB 3000 until January 14, 2008.

2. **BASF SE**
As resolved by the Annual Meeting of Shareholders on April 26, 2007, BASF Aktiengesellschaft has been converted by way of change of legal form pursuant to the Conversion Plan of February 27, 2007 into BASF SE with registered office in Ludwigshafen am Rhein, Federal Republic of Germany.
BASF SE with registered office in Ludwigshafen am Rhein, Federal Republic of Germany, is registerd as from January 14, 2008 in the legal form of a Societas Europaea in the commercial register of the district court – court of registry – of Ludwigshafen am Rhein, Federal Republic of Germany, under the entry number HRB 6000.

Therefore, BASF SE is the legal successor of BASF Aktiengesellschaft.

As set forth in Art. 37 para. 2 of Council Regulation (EC) No. 2157/2001 of October 8, 2001 on the Statute for a European Company (SE) this conversion neither resulted in the dissolution of the company nor in the establishment of a new legal person.

3. **Confirmation**
Based on today's inspection of the commercial register, I, Notary public, certify the aforedescribed legal succession.

Ludwigshafen/Rhine (Federal Republic of Germany), January 14, 2008

NOTARIA SEXTA DEL CIRCULO DE BOGOTA
DA AGO CONSTAR QUE LA FOTOCOPIA COINCIDE
CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

Die Übereinstimmung vorstehender Abschrift mit der Urschrift wird hiermit beglaubigt.

Ludwigshafen am Rhein
(Bundesrepublik Deutschland)
den, 22. Januar 2008

I hereby certify the copy reproduced above to be a true and correct copy of the original record.

Ludwigshafen/Rhine
(Federal Republic of Germany),
January 22, 2008

Ludwig Drexel-Fischer
3
Notar in Ludwigshafen am Rhein

Notar/Notary Public

Gebührenwert: 2.000,--EUR

Value of fee: 2.000,--EUR

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. DAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

10.

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APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Land : Bundesrepublik Deutschland
   Diese öffentliche Urkunde
2. ist unterschrieben von Notar
   D r a x e l - F i s c h e r
3. in seiner Eigenschaft als
   öffentlicher Notar
4. sie ist versehen mit dem Siegel/Stempel
   des Notars Ludwig Draxel-Fischer
   in Ludwigshafen am Rhein

Bestätigt

5. in Frankenthal (Pfalz)
6. am 7. April 2008
7. durch den Präsidenten des Landgerichts
8. unter Nr. 91 Eb - 512/08

9. Siegel/Stempel:

10. Unterschrift
    Im Auftrag

.....
(Christian Köneke)
Richter am Landgericht

Kostenvermerk:
Gebühr 10,-- €

NOTARIA SEXTA DEL CIRCULO DE BOGOTA
HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE
CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

TRADUC

Y

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO
NOTARIA

TRADUCCIÓN OFICIAL 111/2008 DE UN DOCUMENTO ESCRITO EN INGLÉS Y EN ESPAÑOL DE ACUERDO CON EL CUAL **BASF SE.**, EMPRESA DOMICILIADA EN 67056 LUDWIGSHAFEN, ALEMANIA, OTORGA PODER A EMILIO FERRERO, TPA 31929, LUZ CLEMENCIA DE PAEZ, TPA 23555 Y A DANIEL PEÑA, TPA 65620.

EXPEDIDO Y FIRMADO HOY 3 DE ABRIL DE 2008 EN LUDWIGSHAFEN AM RHEIN, POR DR. THOMAS CIMNIAK Y ALEXANDER WALLON, DIRECTORES

U.R.NR. 819/2008

Yo, Ludwig Draxel-Fischer, notario público de Ludwigshafen/Rhine, República Federal de Alemania, por el presente certifico y confirmo que las dos firmas arriba mencionadas de 1- El químico graduado Dr. Thomas Cimniak, químico de Ludwigshafen/Rhine, personalmente conocido mío

2- El químico graduado Dr. Alexander Wallon, químico de Ludwigshafen/Rhine, personalmente conocido mío

son verídicas y válidas.

Los químicos graduados, doctores Cimniak y Wallon actúan a nombre de BASF SE en Ludwigshafen/Rhine.

Después de haber verificado hoy el registro de comercio pertinente, confirmo que los químicos graduados Dr. Cimniak y Dr. Wallon son directores autorizados para representar conjuntamente a BASF SE (Empresa Europea), Ludwigshafen/Rhine. Certifico que dicha firma es una persona jurídica debidamente constituida de conformidad con las leyes de la República Federal de Alemania y con las leyes de la UNION EUROPEA y que está registrada en el tribunal de distrito de Ludwigshafen/Alemania (HR B 6000)

Ludwigshafen/Rhine, 3 de abril de 2008.

Firma ilegible, notario público

NOTARÍA SEXTA DEL CÍRCULO DE BOGOTÁ D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTÁ D.C. REPÚBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

17

Valor pagado: 5112,92 Euros

Apostilla número 91 Eb-511/08

Bogotá, 9 de mayo de 2008.

COLO-16452-841-001-6

ECN\ECN\ID-125389\WPCL002G

Eduardo Calvo N.

Eduardo Calvo Nieto
TRADUCTOR
INGLES - ESPAÑOL
Res. 541 Febrero de 1991

MINISTERIO DE RELACIONES EXTERIORES
OFICINA DE LEGALIZACIONES
BOGOTA D.C.
MAY 12 2008
09:11:06

Eduardo Calvo

NOTARIA SEXTA DEL CÍRCULO DE BOGOTÁ
DOY FE QUE LA FOTOCOPIA COINCIDE
CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTÁ D.C. REPÚBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO
NOTARIA

TRADUCCIÓ
de un docume
del Ministe

COMO NOTARIO SEXTO DEL CIRCULO DE SANTAFE DE BOGOTA, HAGO CONSTAR QUE LA(S) FIRMA(S) DE

Gloria Celeb
Vogueira

COINCIDE(N) CON LA FIRMA REGISTRADA POR EL (ELLOS) EN ESTA NOTARIA

SANTAFE DE BOGOTA, 12 MAY 2008

CODEX JURIS CIVILIS

REPUBLICA DE COLOMBIA
Juan Manuel Bo[illegible]
Notario Sexto
SANTAFE DE BOGOTA, D.C.

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA

BOGOTA D.C. REPUBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO
NOTARIA

TRADUCCION OFICIAL No. 14939
de un documento escrito en Alemán, efectuada por Luz Arriaga de Herber, resolución del Ministerio de Justicia 599 del 6 de marzo 1978.-

Traducción de los sellos y autenticaciones en alemán que aparecen en el documento de representación y poder, escrito en español e inglés, por medio del cual BASF SE, domiciliada en 67056 Ludwigshafen, Alemania, nombra como sus representantes a EMILIO FERRERO, tpa. 31929; LUZ CLEMENCIA DE PAEZ, tpa 23555 y DANIEL PEÑA tpa. 65.620, domiciliados en la Carrera 4 No. 72-35, Bogotá, Colombia. Dado y firmado el 3 de abril de 2008 en Ludwigishafen am Rhein. Hay dos firmas ilegibles de los señores Dr. Thomas Cimniak y Dr. Alexander Wallon.

Sigue certificación en inglés de las firmas antecedentes por el notario de Ludwigshafen am Rhein, Ludwig Draxel-Fischer, el 3 de abril de 2008 bajo UR Nº 819 / 2008.

Fdo.: firma ilegible. (hilo y oblea notarial). Valor: 5.112,92 Euros.

APOSTILLE
(Convention de La Haye du 5 octobre 1961)

1. País: República Federal de Alemania
   Este documento público
2. Ha sido firmado por el notario Draxel-Fischer
3. Actuando en calidad de notario público
4. Lleva el sello oficial del notario Draxel-Fischer, notario de Ludwigshafen am Rhein

Certificado

5. en Frankenthal (Pfalz)
6. el 7 de abril de 2008
7. por el Presidente del Tribunal Regional
8. bajo el No. 91 Eb – 511/08
9. Sello
(Hilo y oblea del Tribunal Regional)

10. Firma
p.e. Fdo.: firma ilegible
(Christian Köneke)
Juez del Tribunal Regional

Costas:
Derechos 12,00 €

LUZ ARRIAGA DE HERBER
TRADUCTORA OFICIAL
Resolución No. [illegible]

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA
11 JUN. 2009
AMPARO QUINTERO ARTURO
NOTARIA

COMO NOTARIO HASTA DEL CIRCULO DE BOGOTA, HAGO CONSTAR QUE LA FIRMA

CONCUERDA CON LA FIRMA REGISTRADA POR

EL (LA) QUE ESTA EN ESTA NOTARIA

SANTAFE DE BOGOTA, 12 MAY 2009

CODEX JURIS CIVILIS

REPUBLICA DE COLOMBIA

Juan Manuel del Botaro Medina

Palomino Sierra

NOTARIA DE BOGOTA, D.C.

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C. HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA

BOGOTA D.C., REPUBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO

NOTARIA

Copia certificada

Certificación según § 21 Reglamento federal notarial (BnotO) sobre la sucesión legal de BASF Aktiengesellschaft.

1. **BASF Aktiengesellschaft**
   La BASF Aktiengesellschaft domiciliada en Ludwigshafen am Rhein, República Federal de Alemania, estuvo registrada hasta el 14.01.2008 en el Registro de Comercio del Juzgado Municipal de Ludwigshafen am Rhein, República Federal de Alemania –Registro de Comercio- en la forma jurídica del derecho alemán como Sociedad Anónima bajo HRB 3000.

2 **BASF SE**
   Por resolución de la Asamblea General del 26.04.2007 la BASF Aktiengesellschaft por vía del cambio de forma según el plan de transformación del 27.02.2007 se transformó en la BASF SE domiciliada en Ludwigshafen am Rhein, República Federal de Alemania.
   La BASF SE domiciliada en Ludwigshafen am Rhein, República Federal de Alemania, está inscrita desde el 14.01.2008 en el Registro de Comercio del Juzgado Municipal de Ludwigshafen am Rhein, República Federal d Alemania –Registro de Comercio- en la forma jurídica de Societas Europaea bajo HRB 6000.

   Por consiguiente, la BASF SE es la sucesora legal de la BASF Aktiengesellschaft.

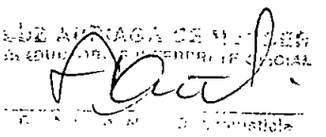
   Según lo estipulado en el Art. 37 Inc. 2 del Reglamento (CE) Nr. 2157/2001 del Consejo del 08 de octubre de 2001 sobre los estatutos de la Sociedad Europea (SE) esta transformación no tuvo como consecuencia ni la disolución de la sociedad ni la constitución de una nueva persona jurídica.

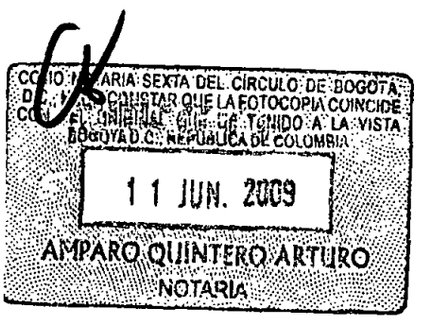
3. **Certificación**
   Yo, el notario, certifico la sucesión antes descrita por haber tenido hoy a la vista los dos Registros Mercantiles antes mencionados.

Ludwigshafen am Rhein (República Federal de Alemania), 14. de enero de 2008

Fdo.: firma ilegible
Notario

(sello redondo en tinta)
Ludwig Draxel-Fischer





(dorso)
Se certifica que la copia antecedente coincide con su original.
Ludwigshafen am Rhein
(República Federal de Alemania)
22 de enero de 2008.

Fdo.: firma ilegible
Notario

(sello redondo en tinta)
Ludwig Draxel-Fischer

Derechos: 2.000,-- Euros

APOSTILLE
(Convention de La Haye du 5 octobre 1961)

1. País: República Federal de Alemania
   Este documento público
2. Ha sido firmado por el notario Draxel-Fischer
3. Actuando en calidad de notario público
4. Lleva el sello oficial del notario Draxel-Fischer, notario de Ludwigshafen am Rhein

Certificado

5. en Frankenthal (Pfalz)
6. el 7 de abril de 2008
7. por el Presidente del Tribunal Regional
8. bajo el No. 91 Eb – 512/08
9. Sello
(Hilo y oblea del Tribunal Regional)

10. Firma
p. e. Fdo.: firma ilegible
(Christian Koneke)
Juez del Tribunal Regional

Costas:
Derechos 10,00 €

ES TRADUCCION FIEL Y COMPLETA, de la cual se deja copia en los archivos de estas oficinas para su confrontación.

Bogotá, 9 de mayo de 2008
C. 3545

COMO NOTARIO SEXTO DEL CIRCULO DE SANTAFE DE BOGOTA, HAGO CONSTAR QUE LA(S) FIRMA(S) DE

COINCIDE(N) CON LA FIRMA REGISTRADA POR EL (ELLOS) EN ESTA NOTARIA

SANTAFE DE BOGOTA 12 MAY 2008

REPUBLICA DE COLOMBIA
San Manuel Pedro Molina
Distrito Sexto
SANTAFE DE BOGOTA D.C.

COMO NOTARIA SEXTA DEL CIRCULO DE BOGOTA D.C., HAGO CONSTAR QUE LA FOTOCOPIA COINCIDE CON EL ORIGINAL QUE HE TENIDO A LA VISTA
BOGOTA D.C. REPUBLICA DE COLOMBIA

11 JUN. 2009

AMPARO QUINTERO ARTURO
NOTARIA

CAVELIER
ABOGADOS
EDIFICIO SISKI
CARRERA 4a No. 72-35
BOGOTA, 8 - COLOMBIA

CESION

Yo, (nosotros), abajo firmado(s)

domiciliado(s) en

ASSIGNMENT

I (we), the undersigned

Jan Klaas Lohmann
Gräfenaustr. 20, 67063 Ludwigshafen
Germany
Citizen of Germany

Wassilios Grammenos
Alexander-Fleming-Str. 13, 67071 Ludwigshafen
Germany
Citizen of Greece

Michael Puhl
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Citizen of Germany

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Germany
Citizen of Greece

Sarah Ulmschneider
Lorbeerweg 2, 67098 Bad Dürkheim
Germany
Citizen of Germany

Thomas Grote
Im Höhnhausen 18, 67157 Wachenheim
Germany
Citizen of Germany

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© CAVELIER ABOGADOS

declaro(amos) bajo juramento ser único(s) y verdadero(s) inventor(es) de la invención:

state(s) under oath to be sole and true inventor(s) of the invention:

Pyrimidylmethyl-sulfonamide compounds

declaro(amos) así mismo que cedo(emos) y transfiero(erimos), sin limitación, a favor de la sociedad

state as well, that assign, without reservations or limitations in favour of

BASF Aktiengesellschaft

constituída y existente de conformidad con las leyes de

a corporation constituted and existing in conformity with the laws of

Germany

domiciliada en

domiciled in

67056 Ludwigshafen, Germany

todos los derechos inherentes a dicha invención y que la citada Compañía queda facultada para solicitar en su nombre la patente correspondiente en la República de Colombia

all rights inherent to said invention and that the above mentioned company hereby is enabled to apply, in its name, for the corresponding patent in the Republic of Colombia.

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18.

Dado y firmado hoy Given and signed this 15. Nov. 2007

Firma Signature

Jan Klaas Lohmann

Wassilios Grammenos

Michael Puhl

Jochen Dietz

Bernd Müller

Joachim Rheinheimer

Jens Renner

Marianna Vrettou

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19

Sarah Ulmschneider

Sarah Ulmschneider

Thomas Grote

Thomas Grote

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Notarization and legalized by means of Apostille

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WPPODERE-343

CO Assignment Form 01 11/98

U.R.Nr. 2585/2007

I, Ludwig Draxel-Fischer, notary public at Ludwigshafen/Rhine, Federal Republic of Germany, hereby testify and confirm that the foregoing signatures of

1. Mr. Jan Klaas **Lohmann**, residing at Gräfenaustraße 20, 67063 Ludwigshafen, Germany, personally known to me,

2. Mr. Wassilios **Grammenos**, residing at Alexander-Fleming-Str. 13, 67071 Ludwigshafen, Germany, Citizen of Greece, personally known to me,

3. Mr. Michael **Puhl**, residing at Bürstädter Str. 95, 68623 Lampertheim, Germany, personally known to me,

4. Mr. Jochen **Dietz**, residing at Spelzenstr. 2 a, 68167 Mannheim, Germany, personally known to me,

5. Mr. Bernd **Müller**, residing at Stockinger Str. 7, 67227 Frankenthal, Germany, personally known to me,

6. Mr. Joachim **Rheinheimer**, residing at Merziger Str. 24, 67063 Ludwigshafen, Germany, personally known to me,

7. Mr. Jens **Renner**, residing at Lorbeerweg 2, 67098 Bad Dürkheim, Germany, personally known to me,

8. Mrs. Marianna **Vrettou**, residing at U 4, 23, 68161 Mannheim, Germany, Citizen of Greece, personally known to me,

9. Mrs. Sarah **Ulmschneider**, residing at Lorbeerweg 2, 67098 Bad Dürkheim, Germany, personally known to me,

10. Mr. Thomas **Grote**, residing at Im Höhnhausen 18, 67157 Wachenheim, Germany, personally known to me,

are true and valid.

Ludwigshafen/Rhine, this 15th day of November, 2007

notary public

Wert 5.112,92 €

55 21

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Land : Bundesrepublik Deutschland
   Diese öffentliche Urkunde
2. ist unterschrieben von Notar
   D r a x e l - F i s c h e r
3. in seiner Eigenschaft als
   öffentlicher Notar
4. sie ist versehen mit dem Siegel/Stempel
   des Notars Ludwig Draxel-Fischer
   in Ludwigshafen am Rhein

Bestätigt

5. in Frankenthal (Pfalz)
6. am 19. November 2007
7. durch den Präsidenten des Landgerichts
8. unter Nr. 91 Eb - 1557/07

9. Siegel/Stempel:

10. Unterschrift
    Im Auftrag

.....
(Christian Köneke)
Richter am Landgericht

Kostenvermerk:
Gebühr 12,00 €

22.

TRADUCCIÓN OFICIAL 109/2009 DE UN DOCUMENTO EN INGLÉS Y EN ESPAÑOL, REALIZADA POR EDUARDO CALADO NOGUERA, TRADUCTOR OFICIAL AUTORIZADO POR RESOLUCIÓN 541 DEL 27 DE FEBRERO DE 1976 POR EL MINISTERIO DE JUSTICIA Y DEBIDAMENTE REGISTRADO ANTE EL MINISTERIO DE RELACIONES EXTERIORES DE COLOMBIA. DE ACUERDO CON DICHO DOCUMENTO JAN KLAAS LOHMANN, GRÄFENAUSTR. 20, 67063, LUDWIGSHAFEN, ALEMANIA, CIUDADANO ALEMAN; WASSIIOS GRAMMENOS ALEXANDER-FLEMING-STR. 13, 67071, LUDWIGSHAFEN, ALEMANIA, CIUDADANO DE GRECIA; MICHAEL PUHL, BÜRSTÄDTER STR. 95, 68623 LAMPERTHEIM, ALEMANIA, CIUDADANO DE ALEMANIA; JOCHEN DIETZ, SPEZENSTR. 2ª 68167 MANNHEIM ALEMANIA, CIUDADANO ALEMAN; BERND MÜLLER STOCKINGERSTR. 7, FRANKENTHAL, ALEMANIA, CIUDADANO ALEMAN; JOACHIM RHEINHEIMER MERZIGER STR. 24, 67063 LUDWIGSHAFEN, ALEMANIA, CIUDADANO DE ALEMANIA; JENS RENNER, LORBEERWEG 2, 67098 BAD DÜRKHEIM, ALEMANIA, CIUDADANO DE ALEMANIA; MARIANNA VRETTOU, U4, 23, 68161 MANNHEIM ALEMANIA, CIUDADANA GRIEGA; SARAH ULMSCHNEIDER, LORBEERWEG 2, 67098 BAD DÜRKHEIM, ALEMANIA, CIUDADANO DE ALEMANIA Y THOMAS GROTE, IM HÖHNHAUSEN 18, 67157 WACHENHEIM, ALEMANIA, CIUDADANO DE ALEMANIA DECLARAN BAJO JURAMENTO SER LOS INVENTORES ÚNICOS Y VERDADEROS DE LA INVENCIÓN **COMPUESTOS DE PIRIMIDIMETIL- SULFONAMIDA**. ADEMÁS QUE CEDEN SIN RESERVAS NI LIMITACIONES EN FAVOR DE BASF AKTIENGESELLSCHAFT, UNA SOCIEDAD CONSTITUIDA Y EXISTENTE DE CONFORMIDAD CON LAS LEYES DE ALEMANIA, DOMICILIADA EN 67056, LUDWIGSHAFEN, ALEMANIA, TODOS LOS DERECHOS INHERENTES A DICHA INVENCIÓN Y QUE LA CITADA COMPAÑÍA QUEDA FACULTADA PARA SOLICITAR EN SU NOMBRE LA PATENTE CORRESPONDIENTE EN LA REPÚBLICA DE COLOMBIA. DADO

Eduardo Calado N

Eduardo Calado Noguera
TRADUCTOR OFICIAL
Inglés - Español - Inglés
Res. 541 Febrero de 1976

23

Y FIRMADO POR TODOS LOS INVENTORES ARRIBA NOMBRADOS EL 15 DE NOVIEMBRE DE 2007.

U. R. NR 2585/2007

Yo Ludwig Draxel-Fischer, notario público de Ludwigshafen/Rhine, República federal de Alemania, por el presente testifico y confirmo que las firmas anteriores de (aqui aparecen los nombres y las direcciones de todos los inventores arriba mencionados) son verídicas y válidas. Ludwigshafen/Rhine, 15 de noviembre de 2007. Firma ilegible: Valor 5112,92 euros.

APOSTILLA No 91 Eb-1557/07 de 19 de noviembre de 2007

ECN\ECN\ID-148832\WPCL002G

COLO-16452-841-034-7

Bogotá, 28 de abril de 2009.

NO SE ASUME RESPONSABILIDAD DEL TEXTO

909473

Eduardo Calado

DOCUMENTO DESGLOSADO EN EL AS FUNCIONES INDICADAS

Eduardo Calado N.

Eduardo Calado Noguera
TRADUCTOR OFICIAL
Inglés - Español - Inglés
Res. 541 Febrero de 1976

MINISTERIO DE RELACIONES EXTERIORES
2009 MAY -5 P 12: 34
JEFE DE LEGALIZACIONES
BOGOTÁ D.C.

La presente traducción oficial **No. 0044/09** *fue elaborada por Hernando Torres Barrera, Traductor e Intérprete Oficial, según Resolución 01305 de 1998 del Ministerio de Justicia y del Derecho.*

A continuación se traduce una apostilla en alemán, que acompaña al Protocolo Notarial No. 2585/2007 en idioma inglés, en un DOCUMENTO DE CESIÓN.

APOSTILLA

(Convention de la Haye du 5 octobre 1961)

1. País: República Federal de Alemania
   Este documento público
2. está firmado por el Notario
   D r a x e l – F i s c h e r
3. en su calidad de Notario Público
4. lleva el sello del Notario Ludwig Draxel-Fischer
   en Ludwigshafen am Rhein

Certificado

5. en Frankenthal (Pfalz)
6. el 19 de noviembre de 2007
7. por el Presidente del Tribunal Regional
8. bajo el No. 91 Eb – 1557/07

9. Sello/timbre:

10. Firma
    En representación:

.....
(Christian Köneke)
Juez del Tribunal Regional

NO SE ASUME RESPONSABILIDAD DEL TEXTO

90947 2 Hernando Torres

COPIA FIEL DEL DOCUMENTO DESEMPEÑADO EN ASTUNCIONES INDICADAS

Anotación de Gastos Notariales:
Tasa 12,00 €

SELLO: PRESIDENTE DEL TRIBUNAL REGIONAL EN FRANKENTHAL (PFALZ) *

MINISTERIO DE RELACIONES EXTERIORES
2009 MAY -5 P 12: 30
JEFE DE LEGALIZACIONES BOGOTA D.C.

Bogotá, D.C., 27 de abril de 2009

HERNANDO TORRES BARRERA
TRADUCTOR E INTERPRETE OFICIAL
RES. No. 1305 MINJUSTICIA 1998

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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

(10) International Publication Number
WO 2008/062011 A1

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C07D 239/20 (2006.01) *C07D 409/12* (2006.01)
C07D 239/22 (2006.01) *C07D 413/12* (2006.01)
C07D 401/12 (2006.01) *C07D 417/12* (2006.01)
C07D 403/12 (2006.01) *A01N 43/54* (2006.01)
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(21) International Application Number:
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(25) Filing Language: English

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(71) Applicant *(for all designated States except US)*: **BASF SE** [DE/DE]; 67056 Ludwigshafen (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LOHMANN, Jan Klaas** [DE/DE]; Gräfenaustr. 20, 67063 Ludwigshafen (DE). **GRAMMENOS, Wassilios** [GR/DE]; Alexander-Fleming-Str. 13, 67071 Ludwigshafen (DE). **PUHL, Michael** [DE/DE]; Bürstädter Str. 95, 68623 Lampertheim (DE). **DIETZ, Jochen** [DE/DE]; Spelzenstr. 2a, 68167 Mannheim (DE). **MÜLLER, Bernd** [DE/DE]; Stockinger Str. 7, 67227 Frankenthal (DE). **RHEINHEIMER, Joachim** [DE/DE]; Merziger Str. 24, 67063 Ludwigshafen (DE). **RENNER, Jens** [DE/DE]; Lorbeerweg 2, 67098 Bad Dürkheim (DE). **VRETTOU, Marianna** [GR/DE]; U 4, 23, 68161 Mannheim (DE). **ULMSCHNEIDER, Sarah** [DE/DE]; Lorbeerweg 2, 67098 Bad Dürkheim (DE). **GROTE, Thomas** [DE/DE]; Im Höhnhausen 18, 67157 Wachenheim (DE).

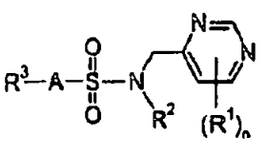
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

WO 2008/062011 A1

(54) Title: PYRIMIDYLMETHYL-SULFONAMIDE COMPOUNDS USEFUL AS FUNGICIDES AND AGAINST ARTHROPODS



(I)

(57) Abstract: The present invention relates to novel pyrimidylmethyl-sulfonamide compounds of formula (I), and to their N-oxides, their agriculturally acceptable salts and their veterinarily acceptable salts and also to agricultural compositions comprising at least one such compound as active component, and also to their use for controlling harmful fungi. The present invention also relates to a method for controlling arthropod pests.

PYRIMIDYLMETHYL-SULFONAMIDE COMPOUNDS USEFUL AS FUNGICIDES AND AGAINST ARTHROPODS

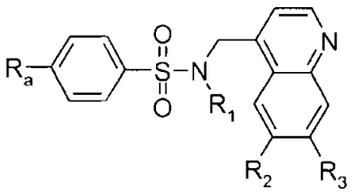
Description

The present invention relates to novel pyrimidylmethyl-sulfonamide compounds and the N-oxides, and salts thereof and their use for combating arthropod pests and/or phytopathogenic harmful fungi, and also to compositions comprising, as active component, at least one such compound. The present invention also relates to a method for controlling arthropod pests.

WO 2005/033081 describes 4-pyridylmethyl sulphonamide compounds which are active against plant pathogenic fungi. With respect to their fungicidal activity, some of said 4-pyridylmethyl sulphonylamide are unsatisfactory, or they have unwanted properties such as low crop plant compatibility.

WO 2006/097489 (PCT/EP/2006/060753) describes various 4-pyridylmethylamides of biphenylsulphonic acid, wherein the biphenyl moiety may carry substituents at the phenyl ring of the biphenyl moiety at the sulfonamide group. The compounds are used for combating arthropodal pests and for protecting materials against infestation and/or destruction by said pests.

WO 2006/097488 (PCT/EP/2006/060752) inter alia describes arthropodal quinolone compounds of the formula (A),



(A)

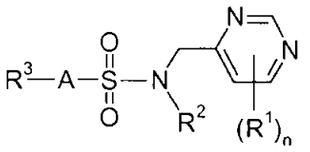
wherein R_2 and R_3 are both hydrogen, halogen, methoxy or trifluoromethoxy, R_1 is hydrogen or methyl and R_a is selected from phenyl which may be unsubstituted or may carry one substituent selected from chloro, C_1-C_4-alkyl, methoxy, trifluoromethoxy or phenyl.

WO 2007/104726 (corresponds to US 60/782429) describes specific quinoline methylsulfonamides carrying a biphenyl moiety at the sulfonamide group wherein the phenylene moiety of biphenyl is unsubstituted.

PCT/EP2007/058348 (corresponds to EP 06119331.4) describes thiophene-sulfonic acid picolyl amide compounds and their use for combating arthropod pests. Said compounds have also a fungicidal activity.

Based on this, there is ongoing need to provide compounds which are useful for combating harmful arthropodes such as insects and arachnids and/or harmful fungi.

This object is, surprisingly, achieved by pyrimidylmethyl-sulfonamide compounds of the general formula (I) described below



(I),

where:

n is zero, one, two or three;

R^1 is halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylsulfinyl, C_1-C_4-haloalkylsulfinyl, C_1-C_4-alkylsulfonyl, C_1-C_4-haloalkylsulfonyl, amino, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-haloalkoxy-C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_3-C_8-cycloalkyl or C_1-C_4-alkyl-C_3-C_8-cycloalkyl; and/or

one radical R^1 that is bound to a carbon atom adjacent to a nitrogen atom of the pyrimidine ring may form together with said carbon atom and nitrogen atom a fused five-membered aromatic heterocycle, which may contain one or two further nitrogen atoms as ring members; or

two radicals R^1 that are bound to adjacent carbon atoms of the pyrimidine ring may form together with said carbon atoms a fused benzene ring, a fused saturated or partially unsaturated 5-, 6-, or 7-membered carbocycle or a fused 5-, 6-, or 7-membered heterocycle containing one, two or three heteroatoms selected from the group consisting of 2 nitrogen, 1 oxygen and 1 sulfur atoms as ring members, it being possible for the fused ring to carry one or two radicals selected from the group consisting of halogen, C_1-C_4-alkyl, halomethyl, C_1-C_4-alkoxy or halomethoxy;

R^2 is hydrogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-haloalkoxy-C_1-C_4-alkyl, C_2-C_4-alkenyl. C_2-C_4-haloalkenyl, C_2-C_4-alkynyl, C_3-C_8-cycloalkyl, C_1-C_4-alkyl-C_3-C_8-cycloalkyl or benzyl wherein the phenyl moiety of benzyl is unsubstituted or carries 1, 2 , 3, 4, or 5 substituents selected from the group consisting of cyano, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl;

A is phenylene, 5- or 6-membered heteroarenediyl, where heteroarenediyl contains one, two, three or four heteroatoms selected from the group consisting of 1, 2, 3 or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, and where phenylene and heteroarenediyl for their part are unsubstituted or carry 1, 2, 3 or 4 substituents R^A, each selected from the group consisting of cyano, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_2-C_4-alkenyl, C_2-C_4-haloalkenyl, C_2-C_4-alkynyl, C_2-C_4-haloalkynyl, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl, or

A is C_1-C_8-alkanediyl, C_1-C_8-haloalkanediyl, C_2-C_8-alkenediyl, C_2-C_8-haloalkenediyl, C_2-C_8-alkynediyl, or C_2-C_8-haloalkynediyl, wherein the six last-mentioned radicals are unsubstituted or carry one, two or three substituents R^{AA}, each selected from the group consisting of cyano, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl;

R^3 is hydrogen, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, (C_1-C_4-alkyl)carbonyl, (C_1-C_4-alkoxy)iminomethyl, acryloyl (vinylcarbonyl), C_3-C_8-cycloalkyl, C_1-C_4-alkyl-C_3-C_8-cycloalkyl, or C_5-C_8-cycloalkenyl,

phenyl, benzyl, phenoxy, phenylthio, a 5- or 6-membered heteroaryl radical, wherein the heteroaryl ring has 1, 2, 3 or 4 heteroatoms selected from the group consisting of 1, 2, 3 or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, it being possible for the heteroaryl ring and the phenyl ring of phenyl, benzyl, phenoxy and phenylthio to be unsubstituted or substituted by one, two or three substituents R^B, each selected from the group consisting of cyano, nitro, amino, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl, di(C_1-C_4-alkyl)aminocarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulfinyl and C_1-C_4-alkylsulfonyl; or

a 5- or 6-membered heteroaryloxy radical or a 5- or 6-membered heteroarylthio radical, wherein the heteroaryl ring in the two aforementioned radicals has 1, 2, 3 or 4 heteroatoms selected from the group consisting of 1, 2, 3, or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, it being possible for said heteroaromatic ring to carry one, two or three substituents R^B;

or if A is phenylene or 5- or 6-membered heteroarenediyl, the radical R^3 together with a radical R^A may form together with the carbon atoms to which they are bound a fused benzene ring, wherein the fused benzene ring may be unsubstituted or may carry 1, 2 or 3 substituents selected, independently from one another, from the group consisting of halogen, cyano, nitro, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl, or

if A is phenylene or 5- or 6-membered heteroarenediyl, the radical R^3 can also be C_1-C_4-alkyl, C_2-C_4-alkenyl or C_2-C_4-alkynyl;

the N-oxides, and the salts of the compounds of the formula (I).

Accordingly, the present invention relates to pyrimidylmethyl-sulfonamide compounds of the general formula (I) and the N-oxides and salts thereof. Moreover, the invention relates to a process for preparing these compounds.

The compounds of the present invention are useful for combating phytopathogenic harmful fungi. Therefore the present invention also relates to the use of pyrimidylmethyl-sulfonamide compounds of the general formula (I), their N-oxides and salts for combating phytopathogenic harmful fungi.

The present invention furthermore relates to a method for the treatment of phytopathogenic harmful fungi, which process comprises treating the fungi or the materials, plants, the soil or seeds to be protected against fungal attack, with an effective amount of at least one compound of the formula (I) or an or an N-oxide or an agriculturally acceptable salt thereof.

The compounds of the present invention are also useful for combating arthropod pests, especially insects and arachnids. Therefore the present invention also relates to the use of compounds of the general formula (I) and their N-oxides and salts for combating arthropod pests. The present invention furthermore relates to a method for combating

arthropod pests, which comprises contacting said pests, their habitat, breeding ground, food supply, plant, seed, soil, area, material or environment in which the arthropod pests are growing or may grow, or the materials, plants, seeds, soils, surfaces or spaces to be protected from an attack of or infestation by said pests, with a pesticidally effective amount of at least one compound of the formula (I), or a N-oxide or an agriculturally acceptable salt thereof or with a composition comprising at least one compound of the formula (I), and/or a N-oxide or a salt thereof. Furthermore, the present invention relates to a method of protecting growing plants from attack or infestation by arthropod pests, which comprising contacting a crop with a pesticidally effective amount of at least one compound of the formula (I) or a N-oxide or an agriculturally acceptable salt thereof.

Furthermore, the present invention relates to a method for protecting seeds from infestation by arthropodal pests and of the seedlings' roots and shoots from infestation by arthropod pests, which comprises contacting the seed or of the seedlings' roots and shoots with a pesticidally effective amount of at least one compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof.

The present invention also relates to a method for protecting non-living materials from attack or infestation by arthropod pests, which comprises contacting the non-living material with a pesticidally effective amount of at least one compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof.

The present invention also relates to seeds comprising a compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof, in an amount of from 0.1 g to 10 kg per 100 kg of seed.

Depending on the substitution pattern, the compounds of the formula (I) and their N-oxides may have one or more centers of chirality, in which case they are present as pure enantiomers or pure diastereomers or as enantiomer or diastereomer mixtures. Both, the pure enantiomers or diastereomers and their mixtures are subject matter of the present invention.

The compounds of the formula (I) can be present in different crystal modifications whose biological activity may differ. They also form part of the subject matter of the present invention.

Agriculturally useful salts of the compounds (I) encompass especially the salts of those cations or the acid addition salts of those acids whose cations and anions, respectively,

have no adverse effect on the pesticidal action of the compounds (I). Suitable cations are thus in particular the ions of the alkali metals, preferably sodium and potassium, of the alkaline earth metals, preferably calcium, magnesium and barium, of the transition metals, preferably manganese, copper, zinc and iron, and also the ammonium ion which, if desired, may carry one to four C_1-C_4-alkyl substituents and/or one phenyl or benzyl substituent, preferably diisopropylammonium, tetramethylammonium, tetrabutylammonium, trimethylbenzylammonium, furthermore phosphonium ions, sulfonium ions, preferably tri(C_1-C_4-alkyl)sulfonium, and sulfoxonium ions, preferably tri(C_1-C_4-alkyl)sulfoxonium.

Anions of useful acid addition salts are primarily chloride, bromide, fluoride, hydrogensulfate, sulfate, dihydrogenphosphate, hydrogenphosphate, phosphate, nitrate, bicarbonate, carbonate, hexafluorosilicate, hexafluorophosphate, benzoate, and the anions of C_1-C_4-alkanoic acids, preferably formate, acetate, propionate and butyrate. They can be formed by reacting a compound of formula (I) with an acid of the corresponding anion, preferably of hydrochloric acid, hydrobromic acid, sulfuric acid, phosphoric acid or nitric acid.

Veterinarily acceptable salts of the compounds of formula (I) encompass especially the salts of those cations or the acid addition salts which are known and accepted in the art for the formation of salts for veterinary use. Suitable acid addition salts, e.g. formed by compounds of formula (I) containing a basic nitrogen atom, e.g. an amino group, include salts with inorganic acids, for example hydrochlorids, sulphates, phosphates, and nitrates and salts of organic acids for example acetic acid, maleic acid, dimaleic acid, fumaric acid, difumaric acid, methane sulfenic acid, methane sulfonic acid, and succinic acid.

In the definitions of the variables given above, collective terms are used which are generally representative for the substituents in question. The term C_n-C_m indicates the number of carbon atoms possible in each case in the substituent or substituent moiety in question.

The term "halogen" refers to fluorine, chlorine, bromine and iodine.

The term "C_1-C_4-alkyl" refers to a straight-chained or branched saturated hydrocarbon group having 1 to 4 carbon atoms, for example methyl, ethyl, propyl, 1-methylethyl, butyl, 1-methylpropyl, 2-methylpropyl, and 1,1-dimethylethyl.

The term "C_1-C_4-haloalkyl" refers to a straight-chained or branched alkyl group having 1 to 4 carbon atoms (as defined above), wherein some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as mentioned above, for example chloromethyl, bromomethyl, dichloromethyl, trichloromethyl, fluoromethyl, difluoromethyl, trifluoromethyl, chlorofluoromethyl, dichlorofluoromethyl, chlorodifluoromethyl, 1-chloroethyl, 1-bromoethyl, 1-fluoroethyl, 2-fluoroethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, 2-chloro-2-fluoroethyl, 2-chloro-2,2-difluoroethyl, 2,2-dichloro-2-fluoroethyl, 2,2,2-trichloroethyl and pentafluoroethyl, 2-fluoropropyl, 3-fluoropropyl, 2,2-difluoropropyl, 2,3-difluoropropyl, 2-chloropropyl, 3-chloropropyl, 2,3-dichloropropyl, 2-bromopropyl, 3-bromopropyl, 3,3,3-trifluoropropyl, 3,3,3-trichloropropyl, CH_2-C_2F_5, CF_2-C_2F_5, $CF(CF_3)_2$, 1-(fluoromethyl)-2-fluoroethyl, 1-(chloromethyl)-2-chloroethyl, 1-(bromomethyl)-2-bromoethyl, 4-fluorobutyl, 4-chlorobutyl, 4-bromobutyl or nonafluorobutyl, and the like.

The term "C_1-C_4-alkoxy" refers to a straight-chain or branched alkyl group having 1 to 4 carbon atoms (as defined above) which is bonded via an oxygen, at any position in the alkyl group, for example methoxy, ethoxy, n-propoxy, 1-methylethoxy, butoxy, 1-methylpropoxy, 2-methylpropoxy or 1,1-dimethylethoxy.

The term "C_1-C_4-haloalkoxy" refers to a C_1-C_4-alkoxy radical as defined above which is partly or fully substituted by fluorine, chlorine, bromine and/or iodine, for example, OCH_2F, $OCHF_2$, OCF_3, OCH_2Cl, $OCHCl_2$, $OCCl_3$, chlorofluoromethoxy, dichlorofluoromethoxy, chlorodifluoromethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2-bromoethoxy, 2-iodoethoxy, 2,2-difluoroethoxy, 2,2,2-trifluoroethoxy, 2-chloro-2-fluoroethoxy, 2-chloro-2,2-difluoroethoxy, 2,2-dichloro-2-fluoroethoxy, 2,2,2-trichloroethoxy, OC_2F_5, 2-fluoropropoxy, 3-fluoropropoxy, 2,2-difluoropropoxy, 2,3-difluoropropoxy, 2-chloropropoxy, 3-chloropropoxy, 2,3-dichloropropoxy, 2-bromopropoxy, 3-bromopropoxy, 3,3,3-trifluoropropoxy, 3,3,3-trichloropropoxy, OCH_2-C_2F_5, $OCF.C_2F_5$, 1-(CH_2F)-2-fluoroethoxy, 1-(CH_2Cl)-2-chloroethoxy, 1-(CH_2Br)-2-bromoethoxy, 4-fluorobutoxy, 4-chlorobutoxy, 4-bromobutoxy or nonafluorobutoxy.

The term "C_1-C_4-alkoxy-C_1-C_4-alkyl" refers to alkyl having 1 to 4 carbon atoms (as defined above), wherein one hydrogen atom of the alkyl radical is replaced by a C_1-C_4-alkoxy group (as defined above).

Accordingly, the term "C_1-C_4-alkylthio" as used herein refers to straight-chain or branched alkyl groups having 1 to 4 carbon atoms (as defined above) bonded through a sulfur atom, at any position in the alkyl group, for example methylthio, ethylthio, propylthio, isopropylthio, and n-butylthio.

The term "C_1-C_4-alkylsulfinyl" refers to straight-chain or branched alkyl group having 1 to 4 carbon atoms (as defined above) bonded through a -S(=O) moiety, at any position in the alkyl group, for example methylsulfinyl and the like.

The term "C_1-C_4-haloalkylsulfinyl" refers to straight-chain or branched haloalkyl group having 1 to 4 carbon atoms (as defined above) bonded through a -S(=O) moiety, at any position in the alkyl group.

The term "C_1-C_4-alkylsulfonyl" refers to straight-chain or branched alkyl group having 1 to 4 carbon atoms (as defined above) bonded through a $-S(=O)_2$ moiety, at any position in the alkyl group, for example methylsulfonyl.

The term "C_1-C_4-haloalkylsulfonyl" refers to straight-chain or branched haloalkyl group having 1 to 4 carbon atoms (as defined above) bonded through a $-S(=O)_2$ moiety, at any position in the alkyl group.

The term "alkylamino" refers to an amino radical carrying one C_1-C_4-alkyl group (as defined above) as substituent, for example methylamino, ethylamino, propylamino, 1-methylethylamino, butylamino, 1-methylpropylamino, 2-methylpropylamino, 1,1-dimethylethylamino and the like.

The term "di(C_1-C_4-alkyl)amino" refers to an amino radical carrying two identical or different C_1-C_4-alkyl groups (as defined above) as substituents, for example dimethylamino, diethylamino, di-n-propylamino, diisopropylamino, N-ethyl-N-methylamino, N-(n-propyl)-N-methylamino, N-(isopropyl)-N-methylamino, N-(n-butyl)-N-methylamino, N-(n-pentyl)-N-methylamino, N-(2-butyl)-N-methylamino, N-(isobutyl)-N-methylamino, and the like.

The term "C_1-C_4-alkoxycarbonyl" refers to a C_1-C_4-alkoxy radical as defined above which is attached via a carbonyl group.

The term "di(C_1-C_4-alkyl)aminocarbonyl" refers to a di(C_1-C_4)alkylamino radical as defined above which is attached via a carbonyl group.

The terms "phenoxy" and "phenylthio", respectively, refer to a phenyl radical which is attached via an oxygen and sulfur atom, respectively.

The term "C_2-C_4-alkenyl" refers to a branched or unbranched unsaturated hydrocarbon radical having 2 to 4 carbon atoms and a double bond in any position, such as ethenyl, 1-propenyl, 2-propenyl (allyl). 1-methylethenyl, 1-butenyl, 2-butenyl, 3-butenyl, 1-methyl-1-propenyl, 2-methyl-1-propenyl, 1-methyl-2-propenyl, 2-methyl-2-propenyl.

The term "C_2-C_4-haloalkenyl" refers to an unsaturated straight-chain or branched hydrocarbon radical having from 2 to 4 carbon atoms and one double bond in any position (as defined above), where some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as specified above, in particular fluorine, chlorine and bromine.

The term "C_2-C_4-alkynyl" refers to a branched or unbranched unsaturated hydrocarbon radical having 2 to 4 carbon atoms and containing at least one triple bond, such as ethynyl, 1-propynyl, 2-propynyl (propargyl), 1-butynyl, 2-butynyl, 3-butynyl, 1-methyl-2-propynyl.

The term "C_3-C_8-cycloalkyl" refers to monocyclic saturated hydrocarbon radicals having 3 to 8 carbon ring members, such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl or cyclooctyl.

The term "C_3-C_8-cycloalkenyl" refers to monocyclic monounsaturated hydrocarbon radicals having from 3 to 8, preferably from 5 to 6, carbon ring members, such as cyclopenten-1-yl, cyclopenten-3-yl, cyclohexen-1-yl, cyclohexen-3-yl, cyclohexen-4-yl and the like

The term "C_1-C_4-alkyl-C_3-C_8-cycloalkyl" refers to a cycloalkyl radical having 3 to 8 carbon atoms (as defined above), wherein one hydrogen atom of the cycloalkyl radical is replaced by a C_1-C_4-alkyl group (as defined above).

The term "five- or six-memberd heterocycle" which contains one, two, three or four heteroatoms from the group consisting of O, N and S, is to be understood as meaning both saturated, partially unsaturated and aromatic heterocycles having 5 or 6 ring atoms, including:

- 5- or 6-membered heterocyclyl which contains one, two or three nitrogen atoms and/or one oxygen or sulfur atom or one or two oxygen and/or sulfur atoms, and which is saturated or partially unsaturated, for example 2-tetrahydrofuranyl, 3-tetrahydrofuranyl, 2-tetrahydrothienyl, 3-tetrahydrothienyl, 2-pyrrolidinyl, 3-pyrrolidinyl, 3-isoxazolidinyl, 4-isoxazolidinyl, 5-isoxazolidinyl, 3-isothiazolidinyl,

4-isothiazolidinyl, 5-isothiazolidinyl, 3-pyrazolidinyl, 4-pyrazolidinyl, 5-pyrazolidinyl, 2-oxazolidinyl, 4-oxazolidinyl, 5-oxazolidinyl, 2-thiazolidinyl, 4-thiazolidinyl, 5-thiazolidinyl, 2-imidazolidinyl, 4-imidazolidinyl, 2-pyrrolin-2-yl, 2-pyrrolin-3-yl, 3-pyrrolin-2-yl, 3-pyrrolin-3-yl, 2-piperidinyl, 3-piperidinyl, 4-piperidinyl, 1,3-dioxan-5-yl, 2-tetrahydropyranyl, 4-tetrahydropyranyl, 2-tetrahydrothienyl, 3-hexahydropyridazinyl, 4-hexahydropyridazinyl, 2-hexahydropyrimidinyl, 4-hexahydropyrimidinyl, 5-hexahydropyrimidinyl and 2-piperazinyl;

- 5-membered aromatic heterocyclyl (heteroaryl) which contains one, two, three or four nitrogen atoms or one, two or three nitrogen atoms and one sulfur or oxygen atom: 5-membered heteroaryl groups which, in addition to carbon atoms, may contain one to four nitrogen atoms or one to three nitrogen atoms and one sulfur or oxygen atom as ring members, for example 2-thienyl, 3-thienyl, 3-pyrazolyl, 4-pyrazolyl, 5-pyrazolyl, 2-oxazolyl, 4-oxazolyl, 5-oxazolyl, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, 2-imidazolyl, 4-imidazolyl and 1,3,4-triazol-2-yl;

- 6-membered heteroaryl which contains one, two, three or four nitrogen atoms: 6-membered heteroaryl groups which, in addition to carbon atoms, may contain one, two, three or four nitrogen atoms as ring members, for example 2-pyridinyl, 3-pyridinyl, 4-pyridinyl, 3-pyridazinyl, 4-pyridazinyl, 2-pyrimidinyl, 4-pyrimidinyl, 5-pyrimidinyl and 2-pyrazinyl.

Fused 5- or 6-membered carbocycle means a hydrocarbon ring which shares two adjacent carbon atoms with another ring, examples being cylopentane, cyclopentene, cyclohexane, cyclohexene and benzene. Examples for 5- or 6-membered heterocycles which contain a contain a fused 5 or 6 membered carbocyclic ring as mentioned above are indolyl, indolinyl, isoindolinyl, benzpyrazolyl, benzimidazolyl, benzotriazolyl, quinolinyl, 1,2,3,4-tetrahydroquinolinyl, isoquinolinyl, phthalazinyl, quinazinyl, quinazolinyl, cinnolinyl, benzofuranyl, benzo-thiophenyl, benzopyranyl, dihydrobenzopyranyl, benzothiopyranyl, 1,3-benzodioxolyl, benzoxazolyl, benzthiazolyl, benzisoxazolyl and 1,4-benzodioxanyl.

The term "5-, 6- or 7-membered carbocycle" comprises monocyclic nonaromatic saturated or partially unsaturated carbocyclic rings having 5, 6 or 7 ring members. Examples for non-aromatic rings include cyclopentyl, cyclopentenyl, cyclopentadienyl, cyclohexyl, cyclohexenyl, cyclohexadienyl, cycloheptyl, cycloheptenyl, cycloheptadienyl and the like.

The term "C_1 -C_8-alkanediyl" refers to a divalent, branched, or straight-chain saturated hydrocarbon radical having 1 to 8 carbon atoms, derived by the removal of one hydrogen atom from each of two different carbon atoms of a parent C_1-C_8-alkane, or by the removal of two hydrogen atoms from a single carbon atom of a parent C_1-C_8-alkane, for example, methanediyl, ethan-1,1-diyl, ethan-1,2-diyl, propan-1,1-diyl, propan-1,2-diyl, propan-2,2-diyl, propan-1,3-diyl, butan-1,1-diyl, butan-1,2-diyl, butan-1,3-diyl, butan-1,4-diyl, butan-2,2-diyl, 2-methyl-propan-1,1-diyl, 2-methyl-propan-1,2-diyl, and the like.

The term "C_1 -C_8-haloalkanediyl" refers to a divalent, branched, or straight-chain saturated hydrocarbon group having 1 to 8 carbon atoms, as defined above, wherein some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as mentioned above.

The term "C_2-C_8-alkenediyl" refers to a divalent, branched, or straight-chain unsaturated hydrocarbon group having 2 to 8 carbon atoms, derived by the removal of one hydrogen atom from each of two different carbon atoms of a parent C_2-C_8-alkene, or by the removal of two hydrogen atoms from a single carbon atom of a parent C_2-C_8-alkene, for example, ethen-1,2-diyl, ethen-1,1-diyl, prop-1-en-1,1-diyl, prop-2-en-1,2-diyl, prop-1-en-1,3-diyl, propen-3,3-diyl, propen-2,2-diyl, but-2-en-1,4-diyl and the like.

The term "C_2 -C_8-haloalkenediyl" refers to a divalent, branched, or straight-chain unsaturated hydrocarbon group having 2 to 8 carbon atoms, as defined above, wherein some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as mentioned above.

The term "C_2-C_8-alkynediyl" refers to a divalent, branched, or straight-chain unsaturated hydrocarbon radical having 2 to 8 carbon atoms, derived by the removal of one hydrogen atom from each of two different carbon atoms of a parent C_2-C_8-alkyne, or by the removal of two hydrogen atoms from a single carbon atom of a parent C_2-C_8-alkyne, for example, prop-2-yn-1,1-diyl, prop-2-yn-1,3-diyl, prop-1-yn-1,3-diyl, but-1-yn-1,3-diyl, but-1-yn-1,4-diyl, but-2-yn-1,4-diyl and the like.

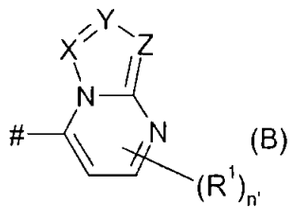
The term "C_2 -C_8-haloalkynediyl" refers to a divalent, branched, or straight-chain unsaturated hydrocarbon radical having 2 to 8 carbon, as defined above, wherein some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as mentioned above.

The term "phenylene" refers to 1,2-phenylene (o-phenylene), 1,3-phenylene (m-phenylene) and 1,4-phenylene (p-phenylene).

The term "5- or 6-membered heteroarenediyl" refers to a divalent radical derived from aromatic heterocycles having 5 or 6 ring atoms, as defined above, aromatic heterocycles having two points of attachment. Examples of heteroarenediyl radicals are, for example, divalent radicals derived from pyridine, pyrimidine, pyridazine, 1,2,3-triazine, 1,2,4-triazine, 1,2,3,4-tetrazine, furan, thiophene, pyrrole, thiazole, thiadiazole, pyrazole, imidazole, triazole, tetrazole, oxazole, isoxazole, isothiazole, oxadiazole and the like. The aforementioned groups can be C-attached or N-attached where such is possible. For example, a group derived from pyrrole, imidiazole or pyrazole can be N-attached or C-attached.

The term "if A is phenylene or 5- or 6-membered heteroarenediyl, the radical R^3 together with a radical R^A may form together with the carbon atoms to which they are bound a fused benzene ring" refers to a bicyclic ring system, wherein phenylene and heteroarenediyl, respectively, carry a fused-on benzene ring. Examples of fused bicyclic rings include naphthalene, benzo[b]furan, benzo[b]thiophene, benzimidazole, benzoxazole, benzthiazole, indole, quinoline and the like. The fused-on benzene ring can be unsubstituted or substituted by 1, 2, 3 radicals substituents selected, independently from one another, from the group consisting of halogen, cyano, nitro, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl. In addition, the phenylene moiety and the heteroarenediyl moiety of the bicyclic ring systems can be unsubstituted or substituted with 1, 2 or 3 substituents R^A.

The term "one radical R^1 that is bound to a carbon atom adjacent to a nitrogen atom of the pyrimidine ring may form together with said carbon atom and nitrogen atom a fused five-membered aromatic heterocycle, which may contain one, two or three further nitrogen atoms as ring members" refers in particular to a radical of the formula (B)



in which # denotes the point of attachment to the skeleton of the remaining molecule, X, Y and Z are, independently of one another, selected from CH and nitrogen, R^1 is as defined above and n' is 0 or 1.

As regards the pesticidal activity of the compounds of the formula (I), preference is given to those compounds of the formula (I), wherein the variables n, R^1, R^2, R^3, and A have independently of each other or more preferably in combination the following meanings.

Preference is given to compounds of the formula (I), in which A is phenylene or heteroarenediyl, as defined above, which both may be unsubstituted or may carry one, two or three substituents R^A.

Particular preference is given to compounds of the formula (I), in which A is phenylene, which is unsubstituted or substituted by one, two or three substituents R^A, with 1,3-phenylene or 1,4-phenylene being more preferred. Most preference is given to compounds of the formula (I), in which A is 1,4-phenylene, which may be unsubstituted or substituted by one, two or three substituents R^A, especially preferably A is 1,4-phenylene, which is unsubstituted.

Likewise, particular preference is given to compounds of the formula (I), in which A is heteroarenediyl selected from the group consisting of pyridinediyl, pyrimidinediyl, pyridazinediyl, pyrazinediyl, furandiyl, thiophenediyl, pyrroldiyl, thiazoldiyl, pyrazoldiyl, imidazoldiyl, triazoldiyl, tetrazoldiyl, triazine, oxazoldiyl, isoxazoldiyl, isothiazoldiyl, thiadiazoldiyl, and oxadiazole, and where the 18 last-mentioned radicals are unsubstituted or carry one, two or three substituents R^A. If one point of attachement is located on a nitrogen atom of the heteroarenediyl radical, said nitrogen atom is attached either to the sulfur atom of the sulfonamide group or to R^3, with the point of attachment to R^3 being more preferred.

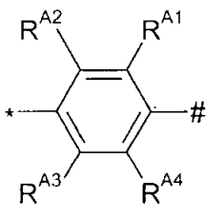
Examples of heteroarenediyl radicals A are pyridin-2,3-diyl, pyridin-2,4-diyl, pyridin-2,5-diyl, pyridin-2,6-diyl, pyridin-3,5-diyl, pyrimidin-2,4-diyl, pyrimidin-2,5-diyl, pyrimidin-4,6-diyl, pyridazin-3,6-diyl, pyridazin-3,5-diyl, pyrazin-2,6-diyl, pyrazin-2,5-diyl, 1,2,3-triazin-4,5-diyl, 1,2,3-triazin-4,6-diyl, 1,2,4-triazin-3,6-diyl, 1,2,4-triazin-3,5-diyl 1,3,5-triazin-2,4-diyl, furan-2,5-diyl, furan-2,4-diyl, furan-3,5-diyl, thiophen-2,5-diyl, thiophen-2,4-diyl, thiophen-3,5-diyl, pyrrol-2,4-diyl, pyrrol-2,5-diyl, [1H]-pyrrol-1,3-diyl, thiazol-2,4-diyl, thiazol-2,5-diyl, pyrazol-3,4-diyl, pyrazol-3,5-diyl, [1H]-pyrazol-1,3-diyl, [1H]-pyrazol-1,4-diyl, imidazol-2,4-diyl, imidazol-2,5-diyl, [1H]-imidazol-1,4-diyl, [1H]-1,2,3-triazol-4,5-diyl, [1H]-1,2,3-triazol-1,5-diyl, [1H]-1,2,3-triazol-1,4-diyl, [1H]-1,2,4-triazol-3,5-diyl,

[1H]-1,2,4-triazol-1,3-diyl, [1H]-1,2,3-triazol-1,5-diyl , [1H]-1,2,3,4-tetrazol-4,5-diyl, 2,4-oxazoldiyl, 2,5-oxazoldiyl, 4,5-oxazoldiyl, isoxazol-3,4-diyl, isoxazol-3,5-diyl, isoxazol-4,5-diyl, isothiazol-3,4-diyl, isothiazol-3,5-diyl, isothiazol-4,5-diyl, 1,2,3-oxadiazol-4,5-diyl, 1,2,4-oxadiazol-3,5-diyl, 1,3,4-oxadiazol-2,5-diyl, 1,2,5-oxadiazol-3,4-diyl, 1,2,3-thiadiazol-4,5-diyl, 1,2,4-thiadiazol-3,5-diyl, 1,3,4-thiadiazol-2,5-diyl and 1,2,5-thiadiazol-3,4-diyl, and each of which is optionally substituted by one, two or three substituents R^A.

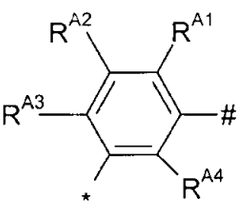
Amongst compounds of the formula (I), in which A is heteroarenediyl, particular preference is given to those, in which A is thiophenediyl, thiazolediyl, oxazolediyl, pyrazolediyl or pyridinediyl, where each of the aforementioned five radicals are unsubstituted or carry one, two or three substituents R^A.

Amongst compounds of the formula (I), in which A is heteroarenediyl, most preference is given to those, in which A is selected from the group consisting of thiophene-2,5-diyl, thiophene-2,4-diyl, thiophene-3,5-diyl, thiazole-2,5-diyl, thiazole-2,4-diyl, oxazole-2,5-diyl, oxazole-2,4-diyl, pyrazole-3,5-diyl, pyrazole-1,3-diyl, pyrazole-1,4-diyl, pyridine-2,5-diyl, pyridine-2,6-diyl, pyridine-2,4-diyl, pyridine-3,5-diyl, wherein heteroarenediyl is unsubstituted or carries one, two or three substituents R^A.

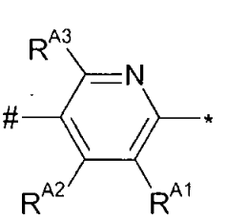
Particularly preferred embodiments of the invention relate to compounds of the formula (I), in which A is one of the radicals A-1 to A-30



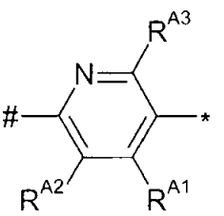
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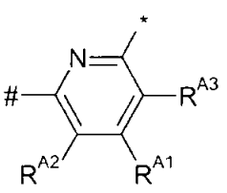
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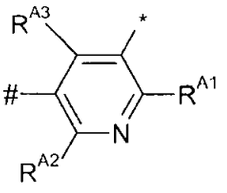
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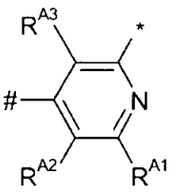
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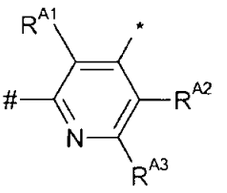
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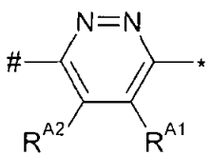
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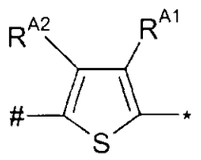
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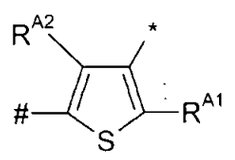
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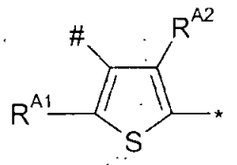
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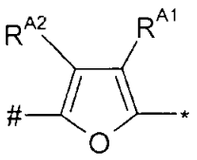
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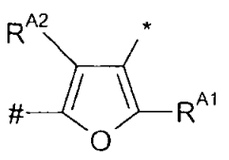
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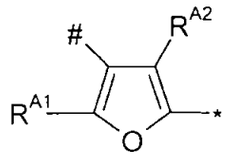
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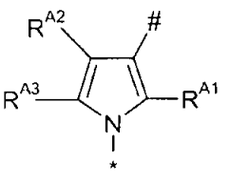
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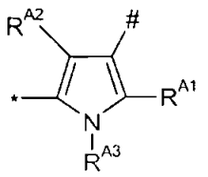
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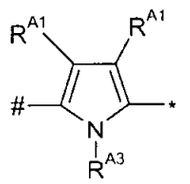
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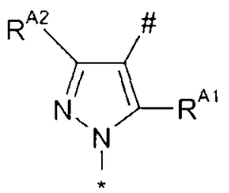
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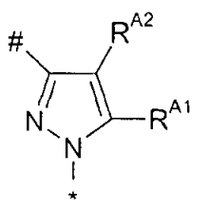
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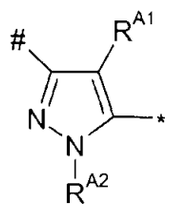
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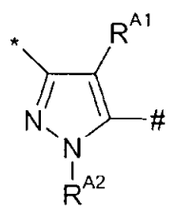
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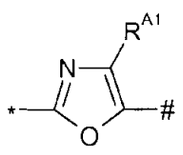
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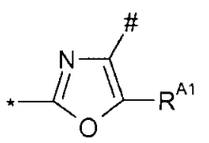
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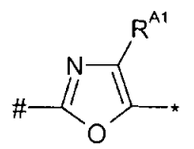
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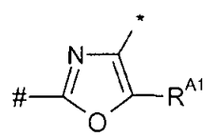
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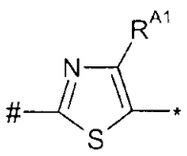
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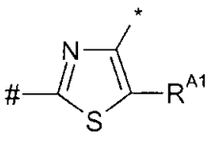
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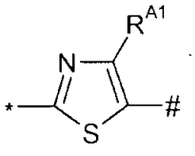
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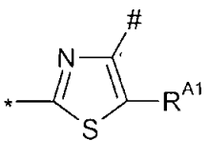
A-27



A-28



A-29



A-30

in which

indicates the point of attachment to the sulfur atom of the sufonamide group;

* indicates the point of attachment to R^3; and

R^{A1}, R^{A2}, R^{A3} and R^{A4} are each independently hydrogen or have one of the definitions specified for R^A, especially those being preferred.

If R^A is present, preferred substituents R^A are selected, independently of one another, from halogen, such as fluorine or chlorine, C_1-C_4-alkyl, such as methyl or ethyl, C_1-C_4-alkoxy, such as methoxy, C_1-C_4-haloalkoxy such as C_1-C_2-fluoroalkoxy, C_1-C_4-haloalkyl such as C_1-C_2-fluoroalkyl and cyano.

A further preferred embodiment of the invention relates to compounds of the formula (I) in which A is C_2-C_4-alkenediyl, C_2-C_4-haloalkenediyl, C_2-C_4-alkynediyl or C_2-C_4-haloalkynediyl, and where the four last-mentioned radicals are unsubstituted or carry one, two, or three substituents R^{AA}. Preferred substituents R^{AA} are selected from C_1-C_4-alkoxy and C_1-C_4-haloalkoxy. R^{AA} is in particular C_1-C_2-alkoxy, such as methoxy, or C_1-C_2-fluoroalkoxy, such as trifluoromethoxy. Among these, particular preference is given to compounds of the formula (I), in which A is ethen-1,2-diyl or ethyn-1,2-diyl, which may be unsubstituted or carry 1 substituent R^{AA} as defined above.

Preferred are compounds of the formula (I), wherein R^3 is phenyl or phenoxy, where the two last-mentioned radicals are unsubstituted or carry one, two, or three substituents R^B. Preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl. Especially preferred radicals R^B are each independently selected from fluorine and chlorine.

Very particular preference is given to compounds of the formula (I) in which R^3 is phenyl, which is substituted by at least one substituent R^B. In this case, especially preferably, at least one of the radicals R^B is arranged in the para-position relative to the

bonding site of phenyl to the A-moiety. In this embodiment, preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl. Especially preferred radicals R^B are each independently selected from fluorine and chlorine.

Likewise, most preferred are compounds of the formula (I), in which R^3 is phenoxy, which is substituted by one substituent R^B, with chlorine and fluorine being most preferred substituents R^B. Likewise, most preferred are compounds of the formula (I) in which R^3 is phenoxy, which is substituted with two, different or same substituents R^B. In this embodiment, preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl, with fluorine or chlorine being most preferred. In this embodiment, especially preferably at least one of the radicals R^B is located in the para-position relative to the bonding site of phenoxy to the A-moiety.

Preference is likewise given to compounds of the formula (I) in which R^3-A are together C_2-C_8-alkenyl or C_2-C_8-alkynyl, where said alkenyl or said alkynyl are unsubstituted or substituted by R^{AA}, preferably by 1, 2, 3 or 4 substituents R^{AA}. Preferred substituents R^{AA} are selected from halogen, C_1-C_4-alkoxy and C_1-C_4-haloalkoxy. R^{AA} is in particular halogen, especially fluorine and chlorine, C_1-C_2-alkoxy, such as methoxy, or C_1-C_2-fluoroalkoxy, such as trifluoromethoxy. Among these, particular preference is given to compounds of the formula (I), in which R^3-A are together C_2-C_4-alkenyl or C_2-C_4-alkynyl, which may be unsubstituted or substituted as defined above.

Particular preference is given to those compounds of the formula (I), in which the variables R^3 and A have in combination the following meanings:

R^3 is phenyl, which is unsubstituted or substituted by at least one substituent R^B, preferably one or two. If R^B is present, especially preferably, one of the radicals R^B is arranged in the para-position relative to the bonding site of phenyl to the A-moiety. Preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-

C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl. Especially preferred radicals R^B are each independently selected from fluorine and chlorine; and

A is phenylene, which is unsubstituted or substituted by one, two or three substituents R^A, in particular 1,3-phenylene or 1,4-phenylene, especially preferably 1,4-phenylene. With particular preference A is1,4-phenylene, which is unsubstituted. If R^A is present, preferred substituents R^A are selected, independently of one another, from halogen, such as fluorine or chlorine, cyano, C_1-C_4-alkyl, such as methyl or ethyl, C_1-C_4-alkoxy, such as methoxy, C_1-C_4-haloalkoxy such as C_1-C_2-fluoroalkoxy, and C_1-C_4-haloalkyl such as C_1-C_2-fluoroalkyl.

Particular preference is likewise given to those compounds of the formula (I), in which the variables R^3 and A have in combination the following meanings:

R^3 is phenyl, which is unsubstituted or substituted by at least one substituent R^B, preferably one or two. If R^B is present, especially preferably, one of the radicals R^B is arranged in the para-position relative to the bonding site of phenyl to the A-moiety. Preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl. Especially preferred radicals R^B are each independently selected from fluorine and chlorine; and

A is heteroarenediyl, which is unsubstituted or carries one, two or three substituents R^A. If R^A is present, preferred substituents R^A are selected, independently of one another, from halogen, such as fluorine or chlorine, cyano, C_1-C_4-alkyl, such as methyl or ethyl, C_1-C_4-alkoxy, such as methoxy, C_1-C_4-haloalkoxy such as C_1-C_2-fluoroalkoxy, and C_1-C_4-haloalkyl such as C_1-C_2-fluoroalkyl. More preferably heteroarenediyl is selected from the group consisting of thiophene-2,5-diyl, thiophene-2,4-diyl, furan-2,5-diyl, furan-2,4-diyl, pyrrol-2,4-diyl, pyrrol-2,5-diyl, [1H]-pyrrol-1,3-diyl, thiazole-2,5-diyl, thiazole-2,4-diyl, oxazole-2,5-diyl, oxazole-2,4-diyl, pyrazole-3,5-diyl, pyrazole-1,3-diyl, pyrazole-1,4-diyl, pyridine-2,5-diyl, pyridine-2,6-diyl, pyridine-2,4-diyl, pyridine-3,5-diyl and pyridazine-3,6-diyl, wherein heteroarenediyl is unsubstituted or carries one, two or three substituents R^A, especially one of the radicals A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-10, A-11, A-

12, A-13, A-14, A-15, A-16, A-17, A-18, A-19, A-20, A-21, A-22, A-23, A-24, A-25, A-26, A-27, A-28, A-29 or A-30 as defined above.

Particular preference is likewise given to those compounds of the formula (I), in which the variables R^3 and A have in combination the following meanings:

R^3 is phenoxy, which is unsubstituted;
is phenoxy, which is substituted by one substituent R^B, with chlorine and fluorine being most preferred substituents R^B, or
is phenoxy, which is substituted by two, different or same substituents R^B. In this embodiment, preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl, with fluorine or chlorine being most preferred. If R^B is present, especially preferably one of the radicals R^B is arranged in the para-position relative to the bonding site of phenoxy to the A-moiety; and

A is phenylene, which is unsubstituted or substituted by one, two or three substituents R^A, in particular 1,3-phenylene or 1,4-phenylene, especially preferably 1,4-phenylene. With particular preference A is1,4-phenylene, which is unsubstituted. If R^A is present, preferred substituents R^A are selected, independently of one another, from halogen, such as fluorine or chlorine, cyano, C_1-C_4-alkyl, such as methyl or ethyl, C_1-C_4-alkoxy, such as methoxy, C_1-C_4-haloalkoxy such as C_1-C_2-fluoroalkoxy, and C_1-C_4-haloalkyl such as C_1-C_2-fluoroalkyl.

Particular preference is likewise given to those compounds of the formula (I), in which the variables R^3 and A have in combination the following meanings:

R^3 is phenoxy, which is unsubstituted,
is phenoxy, which is substituted by one substituent R^B, with chlorine and fluorine being most preferred substituents R^B, or
is phenoxy, which is substituted with two, different or same substituents R^B. In this embodiment, preferred substituents R^B are halogen, in particular fluorine or chlorine, C_1-C_2-alkyl such as methyl or ethyl, C_1-C_2-fluoroalkyl such as trifluoromethyl, C_1-C_2-alkoxy such as methoxy, C_1-C_2-fluoroalkoxy, in particular C_1-C_2-fluoroalkoxy, such as trifluoromethoxy, C_1-C_2-alkoxycarbonyl such as

methoxycarbonyl, (C_1-C_2-alkoxy)carbonyl, in particular methoxycarbony, or di(C_1-C_2-alkyl)aminocarbonyl, such as dimethylaminocarbonyl, with fluorine or chlorine being most preferred. If R^B is present, especially preferably one of the radicals R^B is arranged in the para-position relative to the bonding site of phenoxy to the A-moiety; and

A is heteroarenediyl, which is unsubstituted or carries one, two or three substituents R^A. If R^A is present, preferred substituents R^A are selected, independently of one another, from halogen, such as fluorine or chlorine, cyano, C_1-C_4-alkyl, such as methyl or ethyl, C_1-C_4-alkoxy, such as methoxy, C_1-C_4-haloalkoxy such as C_1-C_2-fluoroalkoxy, and C_1-C_4-haloalkyl such as C_1-C_2-fluoroalkyl. More preferably heteroarenediyl is selected from the group consisting of thiophene-2,5-diyl, thiophene-2,4-diyl, furan-2,5-diyl, furan-2,4-diyl, pyrrol-2,4-diyl, pyrrol-2,5-diyl, [1H]-pyrrol-1,3-diyl, thiazole-2,5-diyl, thiazole-2,4-diyl, oxazole-2,5-diyl, oxazole-2,4-diyl, pyrazole-3,5-diyl, pyrazole-1,3-diyl, pyrazole-1,4-diyl, pyridine-2,5-diyl, pyridine-2,6-diyl, pyridine-2,4-diyl, pyridine-3,5-diyl and pyridazine-3,6-diyl, wherein heteroarenediyl is unsubstituted or carries one, two or three substituents R^A, especially one of the radicals A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-10, A-11, A-12, A-13, A-14, A-15, A-16, A-17, A-18, A-19, A-20, A-21, A-22, A-23, A-24, A-25, A-26, A-27, A-28, A-29 or A-30 as defined above.

A specific embodiment relates to compounds of the formula (I), in which A is a 5- or 6-membered heteroarenediyl, and the radical R^3 together with a radical R^A form together with the carbon atoms to which they are bound a fused benzene ring, wherein the fused benzene ring may be unsubstituted or may carry 1, 2 or 3 substituents selected, independently from one another, from the group consisting of halogen, cyano, nitro, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl. In this case, preference is given to R^3-A being together benzo[b]furan or benzo[b]thiophene, wherein the benzene moiety of benzo[b]furan and benzo[b]thiophene is unsubstituted or carries one or two substituents. Said substituents on the benzene moiety are preferable C_1-C_2-alkyl, especially methyl, or halogen, in particular chlorine. The furan moiety of benzo[b]furan and the thiophene moiety of benzo[b]thiophene can be unsubstituted or carry one substituent preferably selected from C_1-C_2-alkyl, especially methyl, or halogen, especially chlorine.

Preference is furthermore given to compounds of the formula (I) in which R^2 is hydrogen, C_1-C_4-alkyl, especially methyl, ethyl, n-propyl, 1-methylethyl (isopropyl), n-butyl or 2-methylpropyl (isobutyl), C_1-C_2-fluoroalkyl, especially trifluoromethyl, C_1-C_2-alkoxy, especially methoxy, di(C_1-C_2-alkyl)amino, especially dimethylamio, C_2-C_3-alkenyl, especially allyl, or C_2-C_3-alkynyl, especially propargyl. More preference is given

to compounds of the formula (I) in which R^2 is hydrogen, methyl, ethyl, n-butyl, allyl or propargyl, hydrogen being most preferred.

R^1 is preferably C_1-C_4-alkyl, cyclopropyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylsulfinyl, C_1-C_4-haloalkylsulfinyl, C_1-C_4-alkylsulfonyl, C_1-C_4-haloalkylsulfonyl, (C_1-C_4-alkyl)amino, di(C_1-C_4-alkyl)amino, or halogen such as F, Cl and Br. Especially preferably, R^1 is s chlorine, bromine, fluorine, C_1-C_2-alkyl, especially methyl, C_1-C_2-alkoxy, especially methoxy, C_1-C_2-alkylthio, especially methylthio, or di(C_1-C_2-alkyl)amino, especially dimethylamino. Likewise especially preferably, R^1 is selected from C_1-C_2-haloalkoxy, in particular difluoromethoxy or trifluoromethoxy, C_1-C_2-haloalkylthio, in particular difluoromethylthio or trifluoromethylthio, (C_1-C_2-alkyl)amino, in particular methylamino and C_1-C_2-alkylsulfonyl, in particular methylsulfonyl.

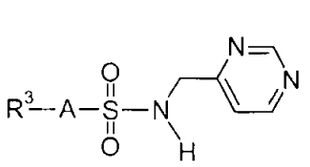
A preferred embodiment of the present invention relates to compounds of the formula (I), in which the index n is zero. These compounds are also referred to compounds (I.a).

A further preferred embodiment of the present invention relates to compounds of the formula (I), in which the index n is one. These compounds are also referred to compounds (I.b). From among these, particular preference is given to those compounds of the formula (I.b), in which R^1 is chlorine, bromine, fluorine, methyl, methoxy, methylthio, dimethylamino, with chlorine being most preferred. Likewise preference is given to compounds of the formula I.b, wherein R^1 is selected from the group consisting of methylamino, methylsulfonyl, difluoromethylthio, trifluoromethylthio, difluoromethoxy, difluoromethoxy and cyclopropyl.

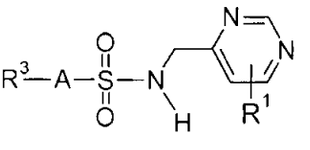
A further preferred embodiment relates to compounds of the formula (I) in which n is two. These compounds are also referred to compounds (I.c). From among these, particular preference is given to those compounds of the formula (I.c), in which R^1 is, independently, from one another, selected from chlorine, methoxy, methyl and methylthio.

A further preferred embodiment relates to compounds of the formula (I) in which n is three. These compounds are also referred to compounds (I.d). From among these, particular preference is given to those compounds of the formula (I.d), in which R^1 is chlorine, methyl, methoxy, methylthio or dimethylamino, with chlorine being most preferred.

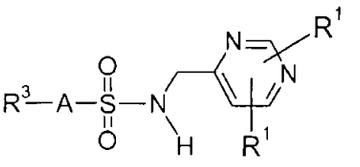
Especially preferred are the compounds of the formulae (I.a.a), (I.b.a) and (I.c.a)



(I.a.a)



(I.b.a)



(I.c.a)

in which R^1, R^3 and A are as defined above.

A skilled person will readily understand that the preferences given for R^3 and A in connection with compounds of formula (I) also apply for formula (I.a.a) as defined herein.

A skilled person will readily understand that the preferences given for R^1, R^3 and A in connection with compounds of formula (I) also apply for formulae (I.b.a) and (I.c.a) as defined herein.

With respect to their use, particular preference is given to the compounds of formula (I) compiled in the tables 1 to 34 below.

Table 1: compounds **1** to 4368

Compounds of the formula (I.a), wherein R^2 is hydrogen and the combination R^3-A for a compound corresponds in each case to one line of table A.

Table A

no.	R^3-A-
1.	4-(o-CN-phenyl)-phenyl
2.	4-(m-CN-phenyl)-phenyl
3.	4-(p-CN-phenyl)-phenyl
4.	4-(o-NO_2-phenyl)-phenyl
5.	4-(m-NO_2-phenyl)-phenyl
6.	4-(p-NO_2-phenyl)-phenyl
7.	4-(o-F-phenyl)-phenyl
8.	4-(m-F-phenyl)-phenyl
9.	4-(p-F-phenyl)-phenyl
10.	4-(o-Cl-phenyl)-phenyl

no.	R^3-A-
11.	4-(m-Cl-phenyl)-phenyl
12.	4-(p-Cl-phenyl)-phenyl
13.	4-(o-Br-phenyl)-phenyl
14.	4-(m-Br-phenyl)-phenyl
15.	4-(p-Br-phenyl)-phenyl
16.	4-(o-CH_3-phenyl)-phenyl
17.	4-(m-CH_3-phenyl)-phenyl
18.	4-(p-CH_3-phenyl)-phenyl
19.	4-(o-CF_3-phenyl)-phenyl
20.	4-(m-CF_3-phenyl)-phenyl

no.	R^3-A-
21.	4-(p-CF_3-phenyl)-phenyl
22.	4-(o-CF_3-phenyl)-phenyl
23.	4-(m-CF_3-phenyl)-phenyl
24.	4-(p-CF_3-phenyl)-phenyl
25.	4-(o-OCH_3-phenyl)-phenyl
26.	4-(m-OCH_3-phenyl)-phenyl
27.	4-(p-OCH_3-phenyl)-phenyl
28.	4-(o-OCF_3-phenyl)-phenyl
29.	4-(m-OCF_3-phenyl)-phenyl
30.	4-(p-OCF_3-phenyl)-phenyl
31.	4-(o-$COOCH_3$-phenyl)-phenyl
32.	4-(m-$COOCH_3$-phenyl)-phenyl
33.	4-(p-$COOCH_3$-phenyl)-phenyl
34.	4-[o-$N(CH_3)_2$-phenyl]-phenyl
35.	4-[m-$N(CH_3)_2$-phenyl]-phenyl
36.	4-[p-$N(CH_3)_2$-phenyl]-phenyl
37.	4-(2,3-dicyanophenyl)-phenyl
38.	4-(2,4-dicyanophenyl)-phenyl
39.	4-(2,5-dicyanophenyl)-phenyl
40.	4-(2,6-dicyanophenyl)-phenyl
41.	4-(3,4-dicyanophenyl)-phenyl
42.	4-(3,5-dicyanophenyl)-phenyl
43.	4-(2,3-difluorophenyl)-phenyl
44.	4-(2,4-difluorophenyl)-phenyl
45.	4-(2,5-difluorophenyl)-phenyl
46.	4-(2,6-difluorophenyl)-phenyl
47.	4-(3,4-difluorophenyl)-phenyl
48.	4-(3,5-difluorophenyl)-phenyl
49.	4-(2,3-dichlorophenyl)-phenyl
50.	4-(2,4-dichlorophenyl)-phenyl
51.	4-(2,5-dichlorophenyl)-phenyl
52.	4-(2,6-dichlorophenyl)-phenyl
53.	4-(3,4-dichlorophenyl)-phenyl
54.	4-(3,5-dichlorophenyl)-phenyl
55.	4-(2,3-dibromophenyl)-phenyl
56.	4-(2,4-dibromophenyl)-phenyl
57.	4-(2,5-dibromophenyl)-phenyl
58.	4-(2,6-dibromophenyl)-phenyl
59.	4-(3,4-dibromophenyl)-phenyl

no.	R^3-A-
60.	4-(3,5-dibromophenyl)-phenyl
61.	4-(2,3-dimethylphenyl)-phenyl
62.	4-(2,4-dimethylphenyl)-phenyl
63.	4-(2,5-dimethylphenyl)-phenyl
64.	4-(2,6-dimethylphenyl)-phenyl
65.	4-(3,4-dimethylphenyl)-phenyl
66.	4-(3,5-dimethylphenyl)-phenyl
67.	4-[2,3-di(trifluoromethyl)phenyl]-phenyl
68.	4-[2,4-di(trifluoromethyl)phenyl]-phenyl
69.	4-[2,5-di(trifluoromethyl)phenyl]-phenyl
70.	4-[2,6-di(trifluoromethyl)phenyl]-phenyl
71.	4-[3,4-di(trifluoromethyl)phenyl]-phenyl
72.	4-[3,5-di(trifluoromethyl)phenyl]-phenyl
73.	4-(2,3-dimethoxyphenyl)-phenyl
74.	4-(2,4-dimethoxyphenyl)-phenyl
75.	4-(2,5-dimethoxyphenyl)-phenyl
76.	4-(2,6-dimethoxyphenyl)-phenyl
77.	4-(3,4-dimethoxyphenyl)-phenyl
78.	4-(3,5-dimethoxyphenyl)-phenyl
79.	4-(o-CN-phenoxy)-phenyl
80.	4-(m-CN-phenoxy)-phenyl
81.	4-(p-CN-phenoxy)-phenyl
82.	4-(o-NO_2-phenoxy)-phenyl
83.	4-(m-NO_2-phenoxy)-phenyl
84.	4-(p-NO_2-phenoxy)-phenyl
85.	4-(o-F-phenoxy)-phenyl
86.	4-(m-F-phenoxy)-phenyl
87.	4-(p-F-phenoxy)-phenyl
88.	4-(o-Cl-phenoxy)-phenyl
89.	4-(m-Cl-phenoxy)-phenyl
90.	4-(p-Cl-phenoxy)-phenyl
91.	4-(o-Br-phenoxy)-phenyl
92.	4-(m-Br-phenoxy)-phenyl

no.	R^3-A-
93.	4-(p-Br-phenoxy)-phenyl
94.	4-(o-CH_3-phenoxy)-phenyl
95.	4-(m-CH_3-phenoxy)-phenyl
96.	4-(p-CH_3-phenoxy)-phenyl
97.	4-(o-CF_3-phenoxy)-phenyl
98.	4-(m-CF_3-phenoxy)-phenyl
99.	4-(p-CF_3-phenoxy)-phenyl
100.	4-(o-CF_3-phenoxy)-phenyl
101.	4-(m-CF_3-phenoxy)-phenyl
102.	4-(p-CF_3-phenoxy)-phenyl
103.	4-(o-OCH_3-phenoxy)-phenyl
104.	4-(m-OCH_3-phenoxy)-phenyl
105.	4-(p-OCH_3-phenoxy)-phenyl
106.	4-(o-OCF_3-phenoxy)-phenyl
107.	4-(m-OCF_3-phenoxy)-phenyl
108.	4-(p-OCF_3-phenoxy)-phenyl
109.	4-(o-$COOCH_3$-phenoxy)-phenyl
110.	4-(m-$COOCH_3$-phenoxy)-phenyl
111.	4-(p-$COOCH_3$-phenoxy)-phenyl
112.	4-[o-$N(CH_3)_2$-phenoxy]-phenyl
113.	4-[m-$N(CH_3)_2$-phenoxy]-phenyl
114.	4-[p-$N(CH_3)_2$-phenoxy]-phenyl
115.	4-(2,3-dicyanophenoxy)-phenyl
116.	4-(2,4-dicyanophenoxy)-phenyl
117.	4-(2,5-dicyanophenoxy)-phenyl
118.	4-(2,6-dicyanophenoxy)-phenyl
119.	4-(3,4-dicyanophenoxy)-phenyl
120.	4-(3,5-dicyanophenoxy)-phenyl
121.	4-(2,3-difluorophenoxy)-phenyl
122.	4-(2,4-difluorophenoxy)-phenyl
123.	4-(2,5-difluorophenoxy)-phenyl
124.	4-(2,6-difluorophenoxy)-phenyl
125.	4-(3,4-difluorophenoxy)-phenyl
126.	4-(3,5-difluorophenoxy)-phenyl
127.	4-(2,3-dichlorophenoxy)-phenyl
128.	4-(2,4-dichlorophenoxy)-phenyl
129.	4-(2,5-dichlorophenoxy)-phenyl
130.	4-(2,6-dichlorophenoxy)-phenyl
131.	4-(3,4-dichlorophenoxy)-phenyl

no.	R^3-A-
132.	4-(3,5-dichlorophenoxy)-phenyl
133.	4-(2,3-dibromophenoxy)-phenyl
134.	4-(2,4-dibromophenoxy)-phenyl
135.	4-(2,5-dibromophenoxy)-phenyl
136.	4-(2,6-dibromophenoxy)-phenyl
137.	4-(3,4-dibromophenoxy)-phenyl
138.	4-(3,5-dibromophenoxy)-phenyl
139.	4-(2,3-dimethylphenoxy)-phenyl
140.	4-(2,4-dimethylphenoxy)-phenyl
141.	4-(2,5-dimethylphenoxy)-phenyl
142.	4-(2,6-dimethylphenoxy)-phenyl
143.	4-(3,4-dimethylphenoxy)-phenyl
144.	4-(3,5-dimethylphenoxy)-phenyl
145.	4-[2,3-di(trifluoromethyl)phenoxy]-phenyl
146.	4-[2,4-di(trifluoromethyl)phenoxy]-phenyl
147.	4-[2,5-di(trifluoromethyl)phenoxy]-phenyl
148.	4-[2,6-di(trifluoromethyl)phenoxy]-phenyl
149.	4-[3,4-di(trifluoromethyl)phenoxy]-phenyl
150.	4-[3,5-di(trifluoromethyl)phenoxy]-phenyl
151.	4-(2,3-dimethoxyphenoxy)-phenyl
152.	4-(2,4-dimethoxyphenoxy)-phenyl
153.	4-(2,5-dimethoxyphenoxy)-phenyl
154.	4-(2,6-dimethoxyphenoxy)-phenyl
155.	4-(3,4-dimethoxyphenoxy)-phenyl
156.	4-(3,5-dimethoxyphenoxy)-phenyl
157.	3-(o-CN-phenyl)-phenyl
158.	3-(m-CN-phenyl)-phenyl
159.	3-(p-CN-phenyl)-phenyl
160.	3-(o-NO_2-phenyl)-phenyl
161.	3-(m-NO_2-phenyl)-phenyl
162.	3-(p-NO_2-phenyl)-phenyl
163.	3-(o-F-phenyl)-phenyl
164.	3-(m-F-phenyl)-phenyl

no.	R^3-A-
165.	3-(p-F-phenyl)-phenyl
166.	3-(o-Cl-phenyl)-phenyl
167.	3-(m-Cl-phenyl)-phenyl
168.	3-(p-Cl-phenyl)-phenyl
169.	3-(o-Br-phenyl)-phenyl
170.	3-(m-Br-phenyl)-phenyl
171.	3-(p-Br-phenyl)-phenyl
172.	3-(o-CH_3-phenyl)-phenyl
173.	3-(m-CH_3-phenyl)-phenyl
174.	3-(p-CH_3-phenyl)-phenyl
175.	3-(o-CF_3-phenyl)-phenyl
176.	3-(m-CF_3-phenyl)-phenyl
177.	3-(p-CF_3-phenyl)-phenyl
178.	3-(o-CF_3-phenyl)-phenyl
179.	3-(m-CF_3-phenyl)-phenyl
180.	3-(p-CF_3-phenyl)-phenyl
181.	3-(o-OCH_3-phenyl)-phenyl
182.	3-(m-OCH_3-phenyl)-phenyl
183.	3-(p-OCH_3-phenyl)-phenyl
184.	3-(o-OCF_3-phenyl)-phenyl
185.	3-(m-OCF_3-phenyl)-phenyl
186.	3-(p-OCF_3-phenyl)-phenyl
187.	3-(o-$COOCH_3$-phenyl)-phenyl
188.	3-(m-$COOCH_3$-phenyl)-phenyl
189.	3-(p-$COOCH_3$-phenyl)-phenyl
190.	3-[o-$N(CH_3)_2$-phenyl]-phenyl
191.	3-[m-$N(CH_3)_2$-phenyl]-phenyl
192.	3-[p-$N(CH_3)_2$-phenyl]-phenyl
193.	3-(2,3-dicyanophenyl)-phenyl
194.	3-(2,4-dicyanophenyl)-phenyl
195.	3-(2,5-dicyanophenyl)-phenyl
196.	3-(2,6-dicyanophenyl)-phenyl
197.	3-(3,4-dicyanophenyl)-phenyl
198.	3-(3,5-dicyanophenyl)-phenyl
199.	3-(2,3-difluorophenyl)-phenyl
200.	3-(2,4-difluorophenyl)-phenyl
201.	3-(2,5-difluorophenyl)-phenyl
202.	3-(2,6-difluorophenyl)-phenyl
203.	3-(3,4-difluorophenyl)-phenyl

no.	R^3-A-
204.	3-(3,5-difluorophenyl)-phenyl
205.	3-(2,3-dichlorophenyl)-phenyl
206.	3-(2,4-dichlorophenyl)-phenyl
207.	3-(2,5-dichlorophenyl)-phenyl
208.	3-(2,6-dichlorophenyl)-phenyl
209.	3-(3,4-dichlorophenyl)-phenyl
210.	3-(3,5-dichlorophenyl)-phenyl
211.	3-(2,3-dibromophenyl)-phenyl
212.	3-(2,4-dibromophenyl)-phenyl
213.	3-(2,5-dibromophenyl)-phenyl
214.	3-(2,6-dibromophenyl)-phenyl
215.	3-(3,4-dibromophenyl)-phenyl
216.	3-(3,5-dibromophenyl)-phenyl
217.	3-(2,3-dimethylphenyl)-phenyl
218.	3-(2,4-dimethylphenyl)-phenyl
219.	3-(2,5-dimethylphenyl)-phenyl
220.	3-(2,6-dimethylphenyl)-phenyl
221.	3-(3,4-dimethylphenyl)-phenyl
222.	3-(3,5-dimethylphenyl)-phenyl
223.	3-[2,3-di(trifluoromethyl)phenyl]-phenyl
224.	3-[2,4-di(trifluoromethyl)phenyl]-phenyl
225.	3-[2,5-di(trifluoromethyl)phenyl]-phenyl
226.	3-[2,6-di(trifluoromethyl)phenyl]-phenyl
227.	3-[3,4-di(trifluoromethyl)phenyl]-phenyl
228.	3-[3,5-di(trifluoromethyl)phenyl]-phenyl
229.	3-(2,3-dimethoxyphenyl)-phenyl
230.	3-(2,4-dimethoxyphenyl)-phenyl
231.	3-(2,5-dimethoxyphenyl)-phenyl
232.	3-(2,6-dimethoxyphenyl)-phenyl
233.	3-(3,4-dimethoxyphenyl)-phenyl
234.	3-(3,5-dimethoxyphenyl)-phenyl
235.	3-(o-CN-phenoxy)-phenyl
236.	3-(m-CN-phenoxy)-phenyl

no.	R^3-A-
237.	3-(p-CN-phenoxy)-phenyl
238.	3-(o-NO_2-phenoxy)-phenyl
239.	3-(m-NO_2-phenoxy)-phenyl
240.	3-(p-NO_2-phenoxy)-phenyl
241.	3-(o-F-phenoxy)-phenyl
242.	3-(m-F-phenoxy)-phenyl
243.	3-(p-F-phenoxy)-phenyl
244.	3-(o-Cl-phenoxy)-phenyl
245.	3-(m-Cl-phenoxy)-phenyl
246.	3-(p-Cl-phenoxy)-phenyl
247.	3-(o-Br-phenoxy)-phenyl
248.	3-(m-Br-phenoxy)-phenyl
249.	3-(p-Br-phenoxy)-phenyl
250.	3-(o-CH_3-phenoxy)-phenyl
251.	3-(m-CH_3-phenoxy)-phenyl
252.	3-(p-CH_3-phenoxy)-phenyl
253.	3-(o-CF_3-phenoxy)-phenyl
254.	3-(m-CF_3-phenoxy)-phenyl
255.	3-(p-CF_3-phenoxy)-phenyl
256.	3-(o-CF_3-phenoxy)-phenyl
257.	3-(m-CF_3-phenoxy)-phenyl
258.	3-(p-CF_3-phenoxy)-phenyl
259.	3-(o-OCH_3-phenoxy)-phenyl
260.	3-(m-OCH_3-phenoxy)-phenyl
261.	3-(p-OCH_3-phenoxy)-phenyl
262.	3-(o-OCF_3-phenoxy)-phenyl
263.	3-(m-OCF_3-phenoxy)-phenyl
264.	3-(p-OCF_3-phenoxy)-phenyl
265.	3-(o-$COOCH_3$-phenoxy)-phenyl
266.	3-(m-$COOCH_3$-phenoxy)-phenyl
267.	3-(p-$COOCH_3$-phenoxy)-phenyl
268.	3-[o-$N(CH_3)_2$-phenoxy]-phenyl
269.	3-[m-$N(CH_3)_2$-phenoxy]-phenyl
270.	3-[p-$N(CH_3)_2$-phenoxy]-phenyl
271.	3-(2,3-dicyanophenoxy)-phenyl
272.	3-(2,4-dicyanophenoxy)-phenyl
273.	3-(2,5-dicyanophenoxy)-phenyl
274.	3-(2,6-dicyanophenoxy)-phenyl
275.	3-(3,4-dicyanophenoxy)-phenyl

no.	R^3-A-
276.	3-(3,5-dicyanophenoxy)-phenyl
277.	3-(2,3-difluorophenoxy)-phenyl
278.	3-(2,4-difluorophenoxy)-phenyl
279.	3-(2,5-difluorophenoxy)-phenyl
280.	3-(2,6-difluorophenoxy)-phenyl
281.	3-(3,4-difluorophenoxy)-phenyl
282.	3-(3,5-difluorophenoxy)-phenyl
283.	3-(2,3-dichlorophenoxy)-phenyl
284.	3-(2,4-dichlorophenoxy)-phenyl
285.	3-(2,5-dichlorophenoxy)-phenyl
286.	3-(2,6-dichlorophenoxy)-phenyl
287.	3-(3,4-dichlorophenoxy)-phenyl
288.	3-(3,5-dichlorophenoxy)-phenyl
289.	3-(2,3-dibromophenoxy)-phenyl
290.	3-(2,4-dibromophenoxy)-phenyl
291.	3-(2,5-dibromophenoxy)-phenyl
292.	3-(2,6-dibromophenoxy)-phenyl
293.	3-(3,4-dibromophenoxy)-phenyl
294.	3-(3,5-dibromophenoxy)-phenyl
295.	3-(2,3-dimethylphenoxy)-phenyl
296.	3-(2,4-dimethylphenoxy)-phenyl
297.	3-(2,5-dimethylphenoxy)-phenyl
298.	3-(2,6-dimethylphenoxy)-phenyl
299.	3-(3,4-dimethylphenoxy)-phenyl
300.	3-(3,5-dimethylphenoxy)-phenyl
301.	3-[2,3-di(trifluoromethyl)phenoxy]-phenyl
302.	3-[2,4-di(trifluoromethyl)phenoxy]-phenyl
303.	3-[2,5-di(trifluoromethyl)phenoxy]-phenyl
304.	3-[2,6-di(trifluoromethyl)phenoxy]-phenyl
305.	3-[3,4-di(trifluoromethyl)phenoxy]-phenyl
306.	3-[3,5-di(trifluoromethyl)phenoxy]-phenyl
307.	3-(2,3-dimethoxyphenoxy)-phenyl
308.	3-(2,4-dimethoxyphenoxy)-phenyl

no.	R^3-A-
309.	3-(2,5-dimethoxyphenoxy)-phenyl
310.	3-(2,6-dimethoxyphenoxy)-phenyl
311.	3-(3,4-dimethoxyphenoxy)-phenyl
312.	3-(3,5-dimethoxyphenoxy)-phenyl
313.	5-(o-CN-phenyl)-thien-2-yl
314.	5-(m-CN-phenyl)-thien-2-yl
315.	5-(p-CN-phenyl)-thien-2-yl
316.	5-(o-NO_2-phenyl)-thien-2-yl
317.	5-(m-NO_2-phenyl)-thien-2-yl
318.	5-(p-NO_2-phenyl)-thien-2-yl
319.	5-(o-F-phenyl)-thien-2-yl
320.	5-(m-F-phenyl)-thien-2-yl
321.	5-(p-F-phenyl)-thien-2-yl
322.	5-(o-Cl-phenyl)-thien-2-yl
323.	5-(m-Cl-phenyl)-thien-2-yl
324.	5-(p-Cl-phenyl)-thien-2-yl
325.	5-(o-Br-phenyl)-thien-2-yl
326.	5-(m-Br-phenyl)-thien-2-yl
327.	5-(p-Br-phenyl)-thien-2-yl
328.	5-(o-CH_3-phenyl)-thien-2-yl
329.	5-(m-CH_3-phenyl)-thien-2-yl
330.	5-(p-CH_3-phenyl)-thien-2-yl
331.	5-(o-CF_3-phenyl)-thien-2-yl
332.	5-(m-CF_3-phenyl)-thien-2-yl
333.	5-(p-CF_3-phenyl)-thien-2-yl
334.	5-(o-CF_3-phenyl)-thien-2-yl
335.	5-(m-CF_3-phenyl)-thien-2-yl
336.	5-(p-CF_3-phenyl)-thien-2-yl
337.	5-(o-OCH_3-phenyl)-thien-2-yl
338.	5-(m-OCH_3-phenyl)-thien-2-yl
339.	5-(p-OCH_3-phenyl)-thien-2-yl
340.	5-(o-OCF_3-phenyl)-thien-2-yl
341.	5-(m-OCF_3-phenyl)-thien-2-yl
342.	5-(p-OCF_3-phenyl)-thien-2-yl
343.	5-(o-$COOCH_3$-phenyl)-thien-2-yl
344.	5-(m-$COOCH_3$-phenyl)-thien-2-yl
345.	5-(p-$COOCH_3$-phenyl)-thien-2-yl
346.	5-[o-$N(CH_3)_2$-phenyl]-thien-2-yl
347.	5-[m-$N(CH_3)_2$-phenyl]-thien-2-yl

no.	R^3-A-
348.	5-[p-$N(CH_3)_2$-phenyl]-thien-2-yl
349.	5-(2,3-dicyanophenyl)-thien-2-yl
350.	5-(2,4-dicyanophenyl)-thien-2-yl
351.	5-(2,5-dicyanophenyl)-thien-2-yl
352.	5-(2,6-dicyanophenyl)-thien-2-yl
353.	5-(3,4-dicyanophenyl)-thien-2-yl
354.	5-(3,5-dicyanophenyl)-thien-2-yl
355.	5-(2,3-difluorophenyl)-thien-2-yl
356.	5-(2,4-difluorophenyl)-thien-2-yl
357.	5-(2,5-difluorophenyl)-thien-2-yl
358.	5-(2,6-difluorophenyl)-thien-2-yl
359.	5-(3,4-difluorophenyl)-thien-2-yl
360.	5-(3,5-difluorophenyl)-thien-2-yl
361.	5-(2,3-dichlorophenyl)-thien-2-yl
362.	5-(2,4-dichlorophenyl)-thien-2-yl
363.	5-(2,5-dichlorophenyl)-thien-2-yl
364.	5-(2,6-dichlorophenyl)-thien-2-yl
365.	5-(3,4-dichlorophenyl)-thien-2-yl
366.	5-(3,5-dichlorophenyl)-thien-2-yl
367.	5-(2,3-dibromophenyl)-thien-2-yl
368.	5-(2,4-dibromophenyl)-thien-2-yl
369.	5-(2,5-dibromophenyl)-thien-2-yl
370.	5-(2,6-dibromophenyl)-thien-2-yl
371.	5-(3,4-dibromophenyl)-thien-2-yl
372.	5-(3,5-dibromophenyl)-thien-2-yl
373.	5-(2,3-dimethylphenyl)-thien-2-yl
374.	5-(2,4-dimethylphenyl)-thien-2-yl
375.	5-(2,5-dimethylphenyl)-thien-2-yl
376.	5-(2,6-dimethylphenyl)-thien-2-yl
377.	5-(3,4-dimethylphenyl)-thien-2-yl
378.	5-(3,5-dimethylphenyl)-thien-2-yl
379.	5-[2,3-di(trifluoromethyl)phenyl]-thien-2-yl
380.	5-[2,4-di(trifluoromethyl)phenyl]-thien-2-yl
381.	5-[2,5-di(trifluoromethyl)phenyl]-thien-2-yl
382.	5-[2,6-di(trifluoromethyl)phenyl]-thien-2-yl

no.	R^3-A-
383.	5-[3,4-di(trifluoromethyl)phenyl]-thien-2-yl
384.	5-[3,5-di(trifluoromethyl)phenyl]-thien-2-yl
385.	5-(2,3-dimethoxyphenyl)-thien-2-yl
386.	5-(2,4-dimethoxyphenyl)-thien-2-yl
387.	5-(2,5-dimethoxyphenyl)-thien-2-yl
388.	5-(2,6-dimethoxyphenyl)-thien-2-yl
389.	5-(3,4-dimethoxyphenyl)-thien-2-yl
390.	5-(3,5-dimethoxyphenyl)-thien-2-yl
391.	5-(o-CN-phenoxy)-thien-2-yl
392.	5-(m-CN-phenoxy)-thien-2-yl
393.	5-(p-CN-phenoxy)-thien-2-yl
394.	5-(o-NO_2-phenoxy)-thien-2-yl
395.	5-(m-NO_2-phenoxy)-thien-2-yl
396.	5-(p-NO_2-phenoxy)-thien-2-yl
397.	5-(o-F-phenoxy)-thien-2-yl
398.	5-(m-F-phenoxy)-thien-2-yl
399.	5-(p-F-phenoxy)-thien-2-yl
400.	5-(o-Cl-phenoxy)-thien-2-yl
401.	5-(m-Cl-phenoxy)-thien-2-yl
402.	5-(p-Cl-phenoxy)-thien-2-yl
403.	5-(o-Br-phenoxy)-thien-2-yl
404.	5-(m-Br-phenoxy)-thien-2-yl
405.	5-(p-Br-phenoxy)-thien-2-yl
406.	5-(o-CH_3-phenoxy)-thien-2-yl
407.	5-(m-CH_3-phenoxy)-thien-2-yl
408.	5-(p-CH_3-phenoxy)-thien-2-yl
409.	5-(o-CF_3-phenoxy)-thien-2-yl
410.	5-(m-CF_3-phenoxy)-thien-2-yl
411.	5-(p-CF_3-phenoxy)-thien-2-yl
412.	5-(o-CF_3-phenoxy)-thien-2-yl
413.	5-(m-CF_3-phenoxy)-thien-2-yl

no.	R^3-A-
414.	5-(p-CF_3-phenoxy)-thien-2-yl
415.	5-(o-OCH_3-phenoxy)-thien-2-yl
416.	5-(m-OCH_3-phenoxy)-thien-2-yl
417.	5-(p-OCH_3-phenoxy)-thien-2-yl
418.	5-(o-OCF_3-phenoxy)-thien-2-yl
419.	5-(m-OCF_3-phenoxy)-thien-2-yl
420.	5-(p-OCF_3-phenoxy)-thien-2-yl
421.	5-(o-$COOCH_3$-phenoxy)-thien-2-yl
422.	5-(m-$COOCH_3$-phenoxy)-thien-2-yl
423.	5-(p-$COOCH_3$-phenoxy)-thien-2-yl
424.	5-[o-$N(CH_3)_2$-phenoxy]-thien-2-yl
425.	5-[m-$N(CH_3)_2$-phenoxy]-thien-2-yl
426.	5-[p-$N(CH_3)_2$-phenoxy]-thien-2-yl
427.	5-(2,3-dicyanophenoxy)-thien-2-yl
428.	5-(2,4-dicyanophenoxy)-thien-2-yl
429.	5-(2,5-dicyanophenoxy)-thien-2-yl
430.	5-(2,6-dicyanophenoxy)-thien-2-yl
431.	5-(3,4-dicyanophenoxy)-thien-2-yl
432.	5-(3,5-dicyanophenoxy)-thien-2-yl
433.	5-(2,3-difluorophenoxy)-thien-2-yl
434.	5-(2,4-difluorophenoxy)-thien-2-yl
435.	5-(2,5-difluorophenoxy)-thien-2-yl
436.	5-(2,6-difluorophenoxy)-thien-2-yl
437.	5-(3,4-difluorophenoxy)-thien-2-yl
438.	5-(3,5-difluorophenoxy)-thien-2-yl
439.	5-(2,3-dichlorophenoxy)-thien-2-yl
440.	5-(2,4-dichlorophenoxy)-thien-2-yl
441.	5-(2,5-dichlorophenoxy)-thien-2-yl

no.	R^3-A-
442.	5-(2,6-dichlorophenoxy)-thien-2-yl
443.	5-(3,4-dichlorophenoxy)-thien-2-yl
444.	5-(3,5-dichlorophenoxy)-thien-2-yl
445.	5-(2,3-dibromophenoxy)-thien-2-yl
446.	5-(2,4-dibromophenoxy)-thien-2-yl
447.	5-(2,5-dibromophenoxy)-thien-2-yl
448.	5-(2,6-dibromophenoxy)-thien-2-yl
449.	5-(3,4-dibromophenoxy)-thien-2-yl
450.	5-(3,5-dibromophenoxy)-thien-2-yl
451.	5-(2,3-dimethylphenoxy)-thien-2-yl
452.	5-(2,4-dimethylphenoxy)-thien-2-yl
453.	5-(2,5-dimethylphenoxy)-thien-2-yl
454.	5-(2,6-dimethylphenoxy)-thien-2-yl
455.	5-(3,4-dimethylphenoxy)-thien-2-yl
456.	5-(3,5-dimethylphenoxy)-thien-2-yl
457.	5-[2,3-di(trifluoromethyl)phenoxy]-thien-2-yl
458.	5-[2,4-di(trifluoromethyl)phenoxy]-thien-2-yl
459.	5-[2,5-di(trifluoromethyl)phenoxy]-thien-2-yl
460.	5-[2,6-di(trifluoromethyl)phenoxy]-thien-2-yl
461.	5-[3,4-di(trifluoromethyl)phenoxy]-thien-2-yl
462.	5-[3,5-di(trifluoromethyl)phenoxy]-thien-2-yl
463.	5-(2,3-dimethoxyphenoxy)-thien-2-yl
464.	5-(2,4-dimethoxyphenoxy)-thien-2-yl
465.	5-(2,5-dimethoxyphenoxy)-thien-2-yl
466.	5-(2,6-dimethoxyphenoxy)-thien-2-yl
467.	5-(3,4-dimethoxyphenoxy)-thien-2-yl
468.	5-(3,5-dimethoxyphenoxy)-thien-2-yl
469.	4-(o-CN-phenyl)-thien-2-yl
470.	4-(m-CN-phenyl)-thien-2-yl
471.	4-(p-CN-phenyl)-thien-2-yl
472.	4-(o-NO_2-phenyl)-thien-2-yl
473.	4-(m-NO_2-phenyl)-thien-2-yl
474.	4-(p-NO_2-phenyl)-thien-2-yl
475.	4-(o-F-phenyl)-thien-2-yl
476.	4-(m-F-phenyl)-thien-2-yl
477.	4-(p-F-phenyl)-thien-2-yl
478.	4-(o-Cl-phenyl)-thien-2-yl
479.	4-(m-Cl-phenyl)-thien-2-yl
480.	4-(p-Cl-phenyl)-thien-2-yl
481.	4-(o-Br-phenyl)-thien-2-yl
482.	4-(m-Br-phenyl)-thien-2-yl
483.	4-(p-Br-phenyl)-thien-2-yl
484.	4-(o-CH_3-phenyl)-thien-2-yl
485.	4-(m-CH_3-phenyl)-thien-2-yl
486.	4-(p-CH_3-phenyl)-thien-2-yl
487.	4-(o-CF_3-phenyl)-thien-2-yl
488.	4-(m-CF_3-phenyl)-thien-2-yl
489.	4-(p-CF_3-phenyl)-thien-2-yl
490.	4-(o-CF_3-phenyl)-thien-2-yl
491.	4-(m-CF_3-phenyl)-thien-2-yl
492.	4-(p-CF_3-phenyl)-thien-2-yl
493.	4-(o-OCH_3-phenyl)-thien-2-yl

no.	R^3-A-
494.	4-(m-OCH_3-phenyl)-thien-2-yl
495.	4-(p-OCH_3-phenyl)-thien-2-yl
496.	4-(o-OCF_3-phenyl)-thien-2-yl
497.	4-(m-OCF_3-phenyl)-thien-2-yl
498.	4-(p-OCF_3-phenyl)-thien-2-yl
499.	4-(o-$COOCH_3$-phenyl)-thien-2-yl
500.	4-(m-$COOCH_3$-phenyl)-thien-2-yl
501.	4-(p-$COOCH_3$-phenyl)-thien-2-yl
502.	4-[o-$N(CH_3)_2$-phenyl]-thien-2-yl
503.	4-[m-$N(CH_3)_2$-phenyl]-thien-2-yl
504.	4-[p-$N(CH_3)_2$-phenyl]-thien-2-yl
505.	4-(2,3-dicyanophenyl)-thien-2-yl
506.	4-(2,4-dicyanophenyl)-thien-2-yl
507.	4-(2,5-dicyanophenyl)-thien-2-yl
508.	4-(2,6-dicyanophenyl)-thien-2-yl
509.	4-(3,4-dicyanophenyl)-thien-2-yl
510.	4-(3,5-dicyanophenyl)-thien-2-yl
511.	4-(2,3-difluorophenyl)-thien-2-yl
512.	4-(2,4-difluorophenyl)-thien-2-yl
513.	4-(2,5-difluorophenyl)-thien-2-yl
514.	4-(2,6-difluorophenyl)-thien-2-yl
515.	4-(3,4-difluorophenyl)-thien-2-yl
516.	4-(3,5-difluorophenyl)-thien-2-yl
517.	4-(2,3-dichlorophenyl)-thien-2-yl
518.	4-(2,4-dichlorophenyl)-thien-2-yl
519.	4-(2,5-dichlorophenyl)-thien-2-yl
520.	4-(2,6-dichlorophenyl)-thien-2-yl
521.	4-(3,4-dichlorophenyl)-thien-2-yl
522.	4-(3,5-dichlorophenyl)-thien-2-yl
523.	4-(2,3-dibromophenyl)-thien-2-yl
524.	4-(2,4-dibromophenyl)-thien-2-yl
525.	4-(2,5-dibromophenyl)-thien-2-yl
526.	4-(2,6-dibromophenyl)-thien-2-yl
527.	4-(3,4-dibromophenyl)-thien-2-yl
528.	4-(3,5-dibromophenyl)-thien-2-yl
529.	4-(2,3-dimethylphenyl)-thien-2-yl
530.	4-(2,4-dimethylphenyl)-thien-2-yl
531.	4-(2,5-dimethylphenyl)-thien-2-yl
532.	4-(2,6-dimethylphenyl)-thien-2-yl

no.	R^3-A-
533.	4-(3,4-dimethylphenyl)-thien-2-yl
534.	4-(3,5-dimethylphenyl)-thien-2-yl
535.	4-[2,3-di(trifluoromethyl)phenyl]-thien-2-yl
536.	4-[2,4-di(trifluoromethyl)phenyl]-thien-2-yl
537.	4-[2,5-di(trifluoromethyl)phenyl]-thien-2-yl
538.	4-[2,6-di(trifluoromethyl)phenyl]-thien-2-yl
539.	4-[3,4-di(trifluoromethyl)phenyl]-thien-2-yl
540.	4-[3,5-di(trifluoromethyl)phenyl]-thien-2-yl
541.	4-(2,3-dimethoxyphenyl)-thien-2-yl
542.	4-(2,4-dimethoxyphenyl)-thien-2-yl
543.	4-(2,5-dimethoxyphenyl)-thien-2-yl
544.	4-(2,6-dimethoxyphenyl)-thien-2-yl
545.	4-(3,4-dimethoxyphenyl)-thien-2-yl
546.	4-(3,5-dimethoxyphenyl)-thien-2-yl
547.	4-(o-CN-phenoxy)-thien-2-yl
548.	4-(m-CN-phenoxy)-thien-2-yl
549.	4-(p-CN-phenoxy)-thien-2-yl
550.	4-(o-NO_2-phenoxy)-thien-2-yl
551.	4-(m-NO_2-phenoxy)-thien-2-yl
552.	4-(p-NO_2-phenoxy)-thien-2-yl
553.	4-(o-F-phenoxy)-thien-2-yl
554.	4-(m-F-phenoxy)-thien-2-yl
555.	4-(p-F-phenoxy)-thien-2-yl
556.	4-(o-Cl-phenoxy)-thien-2-yl
557.	4-(m-Cl-phenoxy)-thien-2-yl
558.	4-(p-Cl-phenoxy)-thien-2-yl
559.	4-(o-Br-phenoxy)-thien-2-yl
560.	4-(m-Br-phenoxy)-thien-2-yl

no.	R^3-A-
561.	4-(p-Br-phenoxy)-thien-2-yl
562.	4-(o-CH_3-phenoxy)-thien-2-yl
563.	4-(m-CH_3-phenoxy)-thien-2-yl
564.	4-(p-CH_3-phenoxy)-thien-2-yl
565.	4-(o-CF_3-phenoxy)-thien-2-yl
566.	4-(m-CF_3-phenoxy)-thien-2-yl
567.	4-(p-CF_3-phenoxy)-thien-2-yl
568.	4-(o-CF_3-phenoxy)-thien-2-yl
569.	4-(m-CF_3-phenoxy)-thien-2-yl
570.	4-(p-CF_3-phenoxy)-thien-2-yl
571.	4-(o-OCH_3-phenoxy)-thien-2-yl
572.	4-(m-OCH_3-phenoxy)-thien-2-yl
573.	4-(p-OCH_3-phenoxy)-thien-2-yl
574.	4-(o-OCF_3-phenoxy)-thien-2-yl
575.	4-(m-OCF_3-phenoxy)-thien-2-yl
576.	4-(p-OCF_3-phenoxy)-thien-2-yl
577.	4-(o-$COOCH_3$-phenoxy)-thien-2-yl
578.	4-(m-$COOCH_3$-phenoxy)-thien-2-yl
579.	4-(p-$COOCH_3$-phenoxy)-thien-2-yl
580.	4-[o-$N(CH_3)_2$-phenoxy]-thien-2-yl
581.	4-[m-$N(CH_3)_2$-phenoxy]-thien-2-yl
582.	4-[p-$N(CH_3)_2$-phenoxy]-thien-2-yl
583.	4-(2,3-dicyanophenoxy)-thien-2-yl
584.	4-(2,4-dicyanophenoxy)-thien-2-yl
585.	4-(2,5-dicyanophenoxy)-thien-2-yl
586.	4-(2,6-dicyanophenoxy)-thien-2-yl
587.	4-(3,4-dicyanophenoxy)-thien-2-yl
588.	4-(3,5-dicyanophenoxy)-thien-2-yl
589.	4-(2,3-difluorophenoxy)-thien-2-yl
590.	4-(2,4-difluorophenoxy)-thien-2-yl

no.	R^3-A-
591.	4-(2,5-difluorophenoxy)-thien-2-yl
592.	4-(2,6-difluorophenoxy)-thien-2-yl
593.	4-(3,4-difluorophenoxy)-thien-2-yl
594.	4-(3,5-difluorophenoxy)-thien-2-yl
595.	5-(2,3-dichlorophenoxy)-thien-2-yl
596.	4-(2,4-dichlorophenoxy)-thien-2-yl
597.	4-(2,5-dichlorophenoxy)-thien-2-yl
598.	4-(2,6-dichlorophenoxy)-thien-2-yl
599.	4-(3,4-dichlorophenoxy)-thien-2-yl
600.	4-(3,5-dichlorophenoxy)-thien-2-yl
601.	4-(2,3-dibromophenoxy)-thien-2-yl
602.	4-(2,4-dibromophenoxy)-thien-2-yl
603.	4-(2,5-dibromophenoxy)-thien-2-yl
604.	4-(2,6-dibromophenoxy)-thien-2-yl
605.	4-(3,4-dibromophenoxy)-thien-2-yl
606.	4-(3,5-dibromophenoxy)-thien-2-yl
607.	4-(2,3-dimethylphenoxy)-thien-2-yl
608.	4-(2,4-dimethylphenoxy)-thien-2-yl
609.	4-(2,5-dimethylphenoxy)-thien-2-yl
610.	4-(2,6-dimethylphenoxy)-thien-2-yl
611.	4-(3,4-dimethylphenoxy)-thien-2-yl
612.	4-(3,5-dimethylphenoxy)-thien-2-yl

no.	R^3-A-
613.	4-[2,3-di(trifluoromethyl)phenoxy]-thien-2-yl
614.	4-[2,4-di(trifluoromethyl)phenoxy]-thien-2-yl
615.	4-[2,5-di(trifluoromethyl)phenoxy]-thien-2-yl
616.	4-[2,6-di(trifluoromethyl)phenoxy]-thien-2-yl
617.	4-[3,4-di(trifluoromethyl)phenoxy]-thien-2-yl
618.	4-[3,5-di(trifluoromethyl)phenoxy]-thien-2-yl
619.	4-(2,3-dimethoxyphenoxy)-thien-2-yl
620.	4-(2,4-dimethoxyphenoxy)-thien-2-yl
621.	4-(2,5-dimethoxyphenoxy)-thien-2-yl
622.	4-(2,6-dimethoxyphenoxy)-thien-2-yl
623.	4-(3,4-dimethoxyphenoxy)-thien-2-yl
624.	4-(3,5-dimethoxyphenoxy)-thien-2-yl
625.	5-(o-CN-phenyl)-thien-3-yl
626.	5-(m-CN-phenyl)-thien-3-yl
627.	5-(p-CN-phenyl)-thien-3-yl
628.	5-(o-NO_2-phenyl)-thien-3-yl
629.	5-(m-NO_2-phenyl)-thien-3-yl
630.	5-(p-NO_2-phenyl)-thien-3-yl
631.	5-(o-F-phenyl)-thien-3-yl
632.	5-(m-F-phenyl)-thien-3-yl
633.	5-(p-F-phenyl)-thien-3-yl
634.	5-(o-Cl-phenyl)-thien-3-yl
635.	5-(m-Cl-phenyl)-thien-3-yl
636.	5-(p-Cl-phenyl)-thien-3-yl
637.	5-(o-Br-phenyl)-thien-3-yl
638.	5-(m-Br-phenyl)-thien-3-yl
639.	5-(p-Br-phenyl)-thien-3-yl
640.	5-(o-CH_3-phenyl)-thien-3-yl

no.	R^3-A-
641.	5-(m-CH_3-phenyl)-thien-3-yl
642.	5-(p-CH_3-phenyl)-thien-3-yl
643.	5-(o-CF_3-phenyl)-thien-3-yl
644.	5-(m-CF_3-phenyl)-thien-3-yl
645.	5-(p-CF_3-phenyl)-thien-3-yl
646.	5-(o-CF_3-phenyl)-thien-3-yl
647.	5-(m-CF_3-phenyl)-thien-3-yl
648.	5-(p-CF_3-phenyl)-thien-3-yl
649.	5-(o-OCH_3-phenyl)-thien-3-yl
650.	5-(m-OCH_3-phenyl)-thien-3-yl
651.	5-(p-OCH_3-phenyl)-thien-3-yl
652.	5-(o-OCF_3-phenyl)-thien-3-yl
653.	5-(m-OCF_3-phenyl)-thien-3-yl
654.	5-(p-OCF_3-phenyl)-thien-3-yl
655.	5-(o-$COOCH_3$-phenyl)-thien-3-yl
656.	5-(m-$COOCH_3$-phenyl)-thien-3-yl
657.	5-(p-$COOCH_3$-phenyl)-thien-3-yl
658.	5-[o-$N(CH_3)_2$-phenyl]-thien-3-yl
659.	5-[m-$N(CH_3)_2$-phenyl]-thien-3-yl
660.	5-[p-$N(CH_3)_2$-phenyl]-thien-3-yl
661.	5-(2,3-dicyanophenyl)-thien-3-yl
662.	5-(2,4-dicyanophenyl)-thien-3-yl
663.	5-(2,5-dicyanophenyl)-thien-3-yl
664.	5-(2,6-dicyanophenyl)-thien-3-yl
665.	5-(3,4-dicyanophenyl)-thien-3-yl
666.	5-(3,5-dicyanophenyl)-thien-3-yl
667.	5-(2,3-difluorophenyl)-thien-3-yl
668.	5-(2,4-difluorophenyl)-thien-3-yl
669.	5-(2,5-difluorophenyl)-thien-3-yl
670.	5-(2,6-difluorophenyl)-thien-3-yl
671.	5-(3,4-difluorophenyl)-thien-3-yl
672.	5-(3,5-difluorophenyl)-thien-3-yl
673.	5-(2,3-dichlorophenyl)-thien-3-yl
674.	5-(2,4-dichlorophenyl)-thien-3-yl
675.	5-(2,5-dichlorophenyl)-thien-3-yl
676.	5-(2,6-dichlorophenyl)-thien-3-yl
677.	5-(3,4-dichlorophenyl)-thien-3-yl
678.	5-(3,5-dichlorophenyl)-thien-3-yl
679.	5-(2,3-dibromophenyl)-thien-3-yl

no.	R^3-A-
680.	5-(2,4-dibromophenyl)-thien-3-yl
681.	5-(2,5-dibromophenyl)-thien-3-yl
682.	5-(2,6-dibromophenyl)-thien-3-yl
683.	5-(3,4-dibromophenyl)-thien-3-yl
684.	5-(3,5-dibromophenyl)-thien-3-yl
685.	5-(2,3-dimethylphenyl)-thien-3-yl
686.	5-(2,4-dimethylphenyl)-thien-3-yl
687.	5-(2,5-dimethylphenyl)-thien-3-yl
688.	5-(2,6-dimethylphenyl)-thien-3-yl
689.	5-(3,4-dimethylphenyl)-thien-3-yl
690.	5-(3,5-dimethylphenyl)-thien-3-yl
691.	5-[2,3-di(trifluoromethyl)phenyl]-thien-3-yl
692.	5-[2,4-di(trifluoromethyl)phenyl]-thien-3-yl
693.	5-[2,5-di(trifluoromethyl)phenyl]-thien-3-yl
694.	5-[2,6-di(trifluoromethyl)phenyl]-thien-3-yl
695.	5-[3,4-di(trifluoromethyl)phenyl]-thien-3-yl
696.	5-[3,5-di(trifluoromethyl)phenyl]-thien-3-yl
697.	5-(2,3-dimethoxyphenyl)-thien-3-yl
698.	5-(2,4-dimethoxyphenyl)-thien-3-yl
699.	5-(2,5-dimethoxyphenyl)-thien-3-yl
700.	5-(2,6-dimethoxyphenyl)-thien-3-yl
701.	5-(3,4-dimethoxyphenyl)-thien-3-yl
702.	5-(3,5-dimethoxyphenyl)-thien-3-yl
703.	5-(o-CN-phenoxy)-thien-3-yl
704.	5-(m-CN-phenoxy)-thien-3-yl
705.	5-(p-CN-phenoxy)-thien-3-yl
706.	5-(o-NO_2-phenoxy)-thien-3-yl
707.	5-(m-NO_2-phenoxy)-thien-3-yl

no.	R^3-A-
708.	5-(p-NO_2-phenoxy)-thien-3-yl
709.	5-(o-F-phenoxy)-thien-3-yl
710.	5-(m-F-phenoxy)-thien-3-yl
711.	5-(p-F-phenoxy)-thien-3-yl
712.	5-(o-Cl-phenoxy)-thien-3-yl
713.	5-(m-Cl-phenoxy)-thien-3-yl
714.	5-(p-Cl-phenoxy)-thien-3-yl
715.	5-(o-Br-phenoxy)-thien-3-yl
716.	5-(m-Br-phenoxy)-thien-3-yl
717.	5-(p-Br-phenoxy)-thien-3-yl
718.	5-(o-CH_3-phenoxy)-thien-3-yl
719.	5-(m-CH_3-phenoxy)-thien-3-yl
720.	5-(p-CH_3-phenoxy)-thien-3-yl
721.	5-(o-CF_3-phenoxy)-thien-3-yl
722.	5-(m-CF_3-phenoxy)-thien-3-yl
723.	5-(p-CF_3-phenoxy)-thien-3-yl
724.	5-(o-CF_3-phenoxy)-thien-3-yl
725.	5-(m-CF_3-phenoxy)-thien-3-yl
726.	5-(p-CF_3-phenoxy)-thien-3-yl
727.	5-(o-OCH_3-phenoxy)-thien-3-yl
728.	5-(m-OCH_3-phenoxy)-thien-3-yl
729.	5-(p-OCH_3-phenoxy)-thien-3-yl
730.	5-(o-OCF_3-phenoxy)-thien-3-yl
731.	5-(m-OCF_3-phenoxy)-thien-3-yl
732.	5-(p-OCF_3-phenoxy)-thien-3-yl
733.	5-(o-$COOCH_3$-phenoxy)-thien-3-yl
734.	5-(m-$COOCH_3$-phenoxy)-thien-3-yl
735.	5-(p-$COOCH_3$-phenoxy)-thien-3-yl
736.	5-[o-$N(CH_3)_2$-phenoxy]-thien-3-yl
737.	5-[m-$N(CH_3)_2$-phenoxy]-thien-3-yl
738.	5-[p-$N(CH_3)_2$-phenoxy]-thien-3-yl
739.	5-(2,3-dicyanophenoxy)-thien-3-yl
740.	5-(2,4-dicyanophenoxy)-thien-3-yl

no.	R^3-A-
741.	5-(2,5-dicyanophenoxy)-thien-3-yl
742.	5-(2,6-dicyanophenoxy)-thien-3-yl
743.	5-(3,4-dicyanophenoxy)-thien-3-yl
744.	5-(3,5-dicyanophenoxy)-thien-3-yl
745.	5-(2,3-difluorophenoxy)-thien-3-yl
746.	5-(2,4-difluorophenoxy)-thien-3-yl
747.	5-(2,5-difluorophenoxy)-thien-3-yl
748.	5-(2,6-difluorophenoxy)-thien-3-yl
749.	5-(3,4-difluorophenoxy)-thien-3-yl
750.	5-(3,5-difluorophenoxy)-thien-3-yl
751.	5-(2,3-dichlorophenoxy)-thien-3-yl
752.	5-(2,4-dichlorophenoxy)-thien-3-yl
753.	5-(2,5-dichlorophenoxy)-thien-3-yl
754.	5-(2,6-dichlorophenoxy)-thien-3-yl
755.	5-(3,4-dichlorophenoxy)-thien-3-yl
756.	5-(3,5-dichlorophenoxy)-thien-3-yl
757.	5-(2,3-dibromophenoxy)-thien-3-yl
758.	5-(2,4-dibromophenoxy)-thien-3-yl
759.	5-(2,5-dibromophenoxy)-thien-3-yl
760.	5-(2,6-dibromophenoxy)-thien-3-yl
761.	5-(3,4-dibromophenoxy)-thien-3-yl
762.	5-(3,5-dibromophenoxy)-thien-3-yl
763.	5-(2,3-dimethylphenoxy)-thien-3-yl
764.	5-(2,4-dimethylphenoxy)-thien-3-yl
765.	5-(2,5-dimethylphenoxy)-thien-3-yl
766.	5-(2,6-dimethylphenoxy)-thien-3-yl
767.	5-(3,4-dimethylphenoxy)-thien-3-yl
768.	5-(3,5-dimethylphenoxy)-thien-3-yl
769.	5-[2,3-di(trifluoromethyl)phenoxy]-thien-3-yl
770.	5-[2,4-di(trifluoromethyl)phenoxy]-thien-3-yl
771.	5-[2,5-di(trifluoromethyl)phenoxy]-thien-3-yl
772.	5-[2,6-di(trifluoromethyl)phenoxy]-thien-3-yl
773.	5-[3,4-di(trifluoromethyl)phenoxy]-thien-3-yl
774.	5-[3,5-di(trifluoromethyl)phenoxy]-thien-3-yl
775.	5-(2,3-dimethoxyphenoxy)-thien-3-yl
776.	5-(2,4-dimethoxyphenoxy)-thien-3-yl
777.	5-(2,5-dimethoxyphenoxy)-thien-3-yl
778.	5-(2,6-dimethoxyphenoxy)-thien-3-yl
779.	5-(3,4-dimethoxyphenoxy)-thien-3-yl
780.	5-(3,5-dimethoxyphenoxy)-thien-3-yl
781.	4-(o-CN-phenyl)-furan-2-yl
782.	4-(m-CN-phenyl)-furan-2-yl
783.	4-(p-CN-phenyl)-furan-2-yl
784.	4-(o-NO_2-phenyl)-furan-2-yl
785.	4-(m-NO_2-phenyl)-furan-2-yl
786.	4-(p-NO_2-phenyl)-furan-2-yl

no.	R^3-A-
787.	4-(o-F-phenyl)-furan-2-yl
788.	4-(m-F-phenyl)-furan-2-yl
789.	4-(p-F-phenyl)-furan-2-yl
790.	4-(o-Cl-phenyl)-furan-2-yl
791.	4-(m-Cl-phenyl)-furan-2-yl
792.	4-(p-Cl-phenyl)-furan-2-yl
793.	4-(o-Br-phenyl)-furan-2-yl
794.	4-(m-Br-phenyl)-furan-2-yl
795.	4-(p-Br-phenyl)-furan-2-yl
796.	4-(o-CH_3-phenyl)-furan-2-yl
797.	4-(m-CH_3-phenyl)-furan-2-yl
798.	4-(p-CH_3-phenyl)-furan-2-yl
799.	4-(o-CF_3-phenyl)-furan-2-yl
800.	4-(m-CF_3-phenyl)-furan-2-yl
801.	4-(p-CF_3-phenyl)-furan-2-yl
802.	4-(o-CF_3-phenyl)-furan-2-yl
803.	4-(m-CF_3-phenyl)-furan-2-yl
804.	4-(p-CF_3-phenyl)-furan-2-yl
805.	4-(o-OCH_3-phenyl)-furan-2-yl
806.	4-(m-OCH_3-phenyl)-furan-2-yl
807.	4-(p-OCH_3-phenyl)-furan-2-yl
808.	4-(o-OCF_3-phenyl)-furan-2-yl
809.	4-(m-OCF_3-phenyl)-furan-2-yl
810.	4-(p-OCF_3-phenyl)-furan-2-yl
811.	4-(o-$COOCH_3$-phenyl)-furan-2-yl
812.	4-(m-$COOCH_3$-phenyl)-furan-2-yl
813.	4-(p-$COOCH_3$-phenyl)-furan-2-yl
814.	4-[o-$N(CH_3)_2$-phenyl]-furan-2-yl
815.	4-[m-$N(CH_3)_2$-phenyl]-furan-2-yl
816.	4-[p-$N(CH_3)_2$-phenyl]-furan-2-yl
817.	4-(2,3-dicyanophenyl)-furan-2-yl
818.	4-(2,4-dicyanophenyl)-furan-2-yl
819.	4-(2,5-dicyanophenyl)-furan-2-yl
820.	4-(2,6-dicyanophenyl)-furan-2-yl
821.	4-(3,4-dicyanophenyl)-furan-2-yl
822.	4-(3,5-dicyanophenyl)-furan-2-yl
823.	4-(2,3-difluorophenyl)-furan-2-yl
824.	4-(2,4-difluorophenyl)-furan-2-yl
825.	4-(2,5-difluorophenyl)-furan-2-yl

no.	R^3-A-
826.	4-(2,6-difluorophenyl)-furan-2-yl
827.	4-(3,4-difluorophenyl)-furan-2-yl
828.	4-(3,5-difluorophenyl)-furan-2-yl
829.	4-(2,3-dichlorophenyl)-furan-2-yl
830.	4-(2,4-dichlorophenyl)-furan-2-yl
831.	4-(2,5-dichlorophenyl)-furan-2-yl
832.	4-(2,6-dichlorophenyl)-furan-2-yl
833.	4-(3,4-dichlorophenyl)-furan-2-yl
834.	4-(3,5-dichlorophenyl)-furan-2-yl
835.	4-(2,3-dibromophenyl)-furan-2-yl
836.	4-(2,4-dibromophenyl)-furan-2-yl
837.	4-(2,5-dibromophenyl)-furan-2-yl
838.	4-(2,6-dibromophenyl)-furan-2-yl
839.	4-(3,4-dibromophenyl)-furan-2-yl
840.	4-(3,5-dibromophenyl)-furan-2-yl
841.	4-(2,3-dimethylphenyl)-furan-2-yl
842.	4-(2,4-dimethylphenyl)-furan-2-yl
843.	4-(2,5-dimethylphenyl)-furan-2-yl
844.	4-(2,6-dimethylphenyl)-furan-2-yl
845.	4-(3,4-dimethylphenyl)-furan-2-yl
846.	4-(3,5-dimethylphenyl)-furan-2-yl
847.	4-[2,3-di(trifluoromethyl)phenyl]-furan-2-yl
848.	4-[2,4-di(trifluoromethyl)phenyl]-furan-2-yl
849.	4-[2,5-di(trifluoromethyl)phenyl]-furan-2-yl
850.	4-[2,6-di(trifluoromethyl)phenyl]-furan-2-yl
851.	4-[3,4-di(trifluoromethyl)phenyl]-furan-2-yl
852.	4-[3,5-di(trifluoromethyl)phenyl]-furan-2-yl
853.	4-(2,3-dimethoxyphenyl)-furan-2-yl
854.	4-(2,4-dimethoxyphenyl)-furan-2-yl
855.	4-(2,5-dimethoxyphenyl)-furan-2-yl

no.	R^3-A-
856.	4-(2,6-dimethoxyphenyl)-furan-2-yl
857.	4-(3,4-dimethoxyphenyl)-furan-2-yl
858.	4-(3,5-dimethoxyphenyl)-furan-2-yl
859.	4-(o-CN-phenoxy)-furan-2-yl
860.	4-(m-CN-phenoxy)-furan-2-yl
861.	4-(p-CN-phenoxy)-furan-2-yl
862.	4-(o-NO_2-phenoxy)-furan-2-yl
863.	4-(m-NO_2-phenoxy)-furan-2-yl
864.	4-(p-NO_2-phenoxy)-furan-2-yl
865.	4-(o-F-phenoxy)-furan-2-yl
866.	4-(m-F-phenoxy)-furan-2-yl
867.	4-(p-F-phenoxy)-furan-2-yl
868.	4-(o-Cl-phenoxy)-furan-2-yl
869.	4-(m-Cl-phenoxy)-furan-2-yl
870.	4-(p-Cl-phenoxy)-furan-2-yl
871.	4-(o-Br-phenoxy)-furan-2-yl
872.	4-(m-Br-phenoxy)-furan-2-yl
873.	4-(p-Br-phenoxy)-furan-2-yl
874.	4-(o-CH_3-phenoxy)-furan-2-yl
875.	4-(m-CH_3-phenoxy)-furan-2-yl
876.	4-(p-CH_3-phenoxy)-furan-2-yl
877.	4-(o-CF_3-phenoxy)-furan-2-yl
878.	4-(m-CF_3-phenoxy)-furan-2-yl
879.	4-(p-CF_3-phenoxy)-furan-2-yl
880.	4-(o-CF_3-phenoxy)-furan-2-yl
881.	4-(m-CF_3-phenoxy)-furan-2-yl
882.	4-(p-CF_3-phenoxy)-furan-2-yl
883.	4-(o-OCH_3-phenoxy)-furan-2-yl
884.	4-(m-OCH_3-phenoxy)-furan-2-yl
885.	4-(p-OCH_3-phenoxy)-furan-2-yl
886.	4-(o-OCF_3-phenoxy)-furan-2-yl
887.	4-(m-OCF_3-phenoxy)-furan-2-yl
888.	4-(p-OCF_3-phenoxy)-furan-2-yl
889.	4-(o-$COOCH_3$-phenoxy)-furan-2-yl
890.	4-(m-$COOCH_3$-phenoxy)-furan-2-yl
891.	4-(p-$COOCH_3$-phenoxy)-furan-2-yl
892.	4-[o-$N(CH_3)_2$-phenoxy]-furan-2-yl
893.	4-[m-$N(CH_3)_2$-phenoxy]-furan-2-yl
894.	4-[p-$N(CH_3)_2$-phenoxy]-furan-2-yl
895.	4-(2,3-dicyanophenoxy)-furan-2-yl
896.	4-(2,4-dicyanophenoxy)-furan-2-yl
897.	4-(2,5-dicyanophenoxy)-furan-2-yl
898.	4-(2,6-dicyanophenoxy)-furan-2-yl
899.	4-(3,4-dicyanophenoxy)-furan-2-yl
900.	4-(3,5-dicyanophenoxy)-furan-2-yl
901.	4-(2,3-difluorophenoxy)-furan-2-yl
902.	4-(2,4-difluorophenoxy)-furan-2-yl
903.	4-(2,5-difluorophenoxy)-furan-2-yl
904.	4-(2,6-difluorophenoxy)-furan-2-yl
905.	4-(3,4-difluorophenoxy)-furan-2-yl
906.	4-(3,5-difluorophenoxy)-furan-2-yl
907.	5-(2,3-dichlorophenoxy)-furan-2-yl
908.	4-(2,4-dichlorophenoxy)-furan-2-yl
909.	4-(2,5-dichlorophenoxy)-furan-2-yl
910.	4-(2,6-dichlorophenoxy)-furan-2-yl
911.	4-(3,4-dichlorophenoxy)-furan-2-yl
912.	4-(3,5-dichlorophenoxy)-furan-2-yl
913.	4-(2,3-dibromophenoxy)-furan-2-yl

no.	R^3-A-
914.	4-(2,4-dibromophenoxy)-furan-2-yl
915.	4-(2,5-dibromophenoxy)-furan-2-yl
916.	4-(2,6-dibromophenoxy)-furan-2-yl
917.	4-(3,4-dibromophenoxy)-furan-2-yl
918.	4-(3,5-dibromophenoxy)-furan-2-yl
919.	4-(2,3-dimethylphenoxy)-furan-2-yl
920.	4-(2,4-dimethylphenoxy)-furan-2-yl
921.	4-(2,5-dimethylphenoxy)-furan-2-yl
922.	4-(2,6-dimethylphenoxy)-furan-2-yl
923.	4-(3,4-dimethylphenoxy)-furan-2-yl
924.	4-(3,5-dimethylphenoxy)-furan-2-yl
925.	4-[2,3-di(trifluoromethyl)phenoxy]-furan-2-yl
926.	4-[2,4-di(trifluoromethyl)phenoxy]-furan-2-yl
927.	4-[2,5-di(trifluoromethyl)phenoxy]-furan-2-yl
928.	4-[2,6-di(trifluoromethyl)phenoxy]-furan-2-yl
929.	4-[3,4-di(trifluoromethyl)phenoxy]-furan-2-yl
930.	4-[3,5-di(trifluoromethyl)phenoxy]-furan-2-yl
931.	4-(2,3-dimethoxyphenoxy)-furan-2-yl
932.	4-(2,4-dimethoxyphenoxy)-furan-2-yl
933.	4-(2,5-dimethoxyphenoxy)-furan-2-yl
934.	4-(2,6-dimethoxyphenoxy)-furan-2-yl
935.	4-(3,4-dimethoxyphenoxy)-furan-2-yl
936.	4-(3,5-dimethoxyphenoxy)-furan-2-yl
937.	2-(o-CN-phenyl)-pyrid-5-yl
938.	2-(m-CN-phenyl)-pyrid-5-yl
939.	2-(p-CN-phenyl)-pyrid-5-yl
940.	2-(o-NO_2-phenyl)-pyrid-5-yl
941.	2-(m-NO_2-phenyl)-pyrid-5-yl
942.	2-(p-NO_2-phenyl)-pyrid-5-yl
943.	2-(o-F-phenyl)-pyrid-5-yl
944.	2-(m-F-phenyl)-pyrid-5-yl
945.	2-(p-F-phenyl)-pyrid-5-yl
946.	2-(o-Cl-phenyl)-pyrid-5-yl
947.	2-(m-Cl-phenyl)-pyrid-5-yl
948.	2-(p-Cl-phenyl)-pyrid-5-yl
949.	2-(o-Br-phenyl)-pyrid-5-yl
950.	2-(m-Br-phenyl)-pyrid-5-yl
951.	2-(p-Br-phenyl)-pyrid-5-yl
952.	2-(o-CH_3-phenyl)-pyrid-5-yl
953.	2-(m-CH_3-phenyl)-pyrid-5-yl
954.	2-(p-CH_3-phenyl)-pyrid-5-yl
955.	2-(o-CF_3-phenyl)-pyrid-5-yl
956.	2-(m-CF_3-phenyl)-pyrid-5-yl
957.	2-(p-CF_3-phenyl)-pyrid-5-yl
958.	2-(o-CF_3-phenyl)-pyrid-5-yl
959.	2-(m-CF_3-phenyl)-pyrid-5-yl
960.	2-(p-CF_3-phenyl)-pyrid-5-yl
961.	2-(o-OCH_3-phenyl)-pyrid-5-yl
962.	2-(m-OCH_3-phenyl)-pyrid-5-yl
963.	2-(p-OCH_3-phenyl)-pyrid-5-yl
964.	2-(o-OCF_3-phenyl)-pyrid-5-yl
965.	2-(m-OCF_3-phenyl)-pyrid-5-yl
966.	2-(p-OCF_3-phenyl)-pyrid-5-yl
967.	2-(o-$COOCH_3$-phenyl)-pyrid-5-yl
968.	2-(m-$COOCH_3$-phenyl)-pyrid-5-yl
969.	2-(p-$COOCH_3$-phenyl)-pyrid-5-yl

no.	R^3-A-
970.	2-[o-$N(CH_3)_2$-phenyl]-pyrid-5-yl
971.	2-[m-$N(CH_3)_2$-phenyl]-pyrid-5-yl
972.	2-[p-$N(CH_3)_2$-phenyl]-pyrid-5-yl
973.	2-(2,3-dicyanophenyl)-pyrid-5-yl
974.	2-(2,4-dicyanophenyl)-pyrid-5-yl
975.	2-(2,5-dicyanophenyl)-pyrid-5-yl
976.	2-(2,6-dicyanophenyl)-pyrid-5-yl
977.	2-(3,4-dicyanophenyl)-pyrid-5-yl
978.	2-(3,5-dicyanophenyl)-pyrid-5-yl
979.	2-(2,3-difluorophenyl)-pyrid-5-yl
980.	2-(2,4-difluorophenyl)-pyrid-5-yl
981.	2-(2,5-difluorophenyl)-pyrid-5-yl
982.	2-(2,6-difluorophenyl)-pyrid-5-yl
983.	2-(3,4-difluorophenyl)-pyrid-5-yl
984.	2-(3,5-difluorophenyl)-pyrid-5-yl
985.	2-(2,3-dichlorophenyl)-pyrid-5-yl
986.	2-(2,4-dichlorophenyl)-pyrid-5-yl
987.	2-(2,5-dichlorophenyl)-pyrid-5-yl
988.	2-(2,6-dichlorophenyl)-pyrid-5-yl
989.	2-(3,4-dichlorophenyl)-pyrid-5-yl
990.	2-(3,5-dichlorophenyl)-pyrid-5-yl
991.	2-(2,3-dibromophenyl)-pyrid-5-yl
992.	2-(2,4-dibromophenyl)-pyrid-5-yl
993.	2-(2,5-dibromophenyl)-pyrid-5-yl
994.	2-(2,6-dibromophenyl)-pyrid-5-yl
995.	2-(3,4-dibromophenyl)-pyrid-5-yl
996.	2-(3,5-dibromophenyl)-pyrid-5-yl
997.	2-(2,3-dimethylphenyl)-pyrid-5-yl
998.	2-(2,4-dimethylphenyl)-pyrid-5-yl
999.	2-(2,5-dimethylphenyl)-pyrid-5-yl
1000.	2-(2,6-dimethylphenyl)-pyrid-5-yl
1001.	2-(3,4-dimethylphenyl)-pyrid-5-yl
1002.	2-(3,5-dimethylphenyl)-pyrid-5-yl
1003.	2-[2,3-di(trifluoromethyl)phenyl]-pyrid-5-yl
1004.	2-[2,4-di(trifluoromethyl)phenyl]-pyrid-5-yl
1005.	2-[2,5-di(trifluoromethyl)phenyl]-pyrid-5-yl
1006.	2-[2,6-di(trifluoromethyl)phenyl]-pyrid-5-yl
1007.	2-[3,4-di(trifluoromethyl)phenyl]-pyrid-5-yl
1008.	2-[3,5-di(trifluoromethyl)phenyl]-pyrid-5-yl
1009.	2-(2,3-dimethoxyphenyl)-pyrid-5-yl
1010.	2-(2,4-dimethoxyphenyl)-pyrid-5-yl
1011.	2-(2,5-dimethoxyphenyl)-pyrid-5-yl
1012.	2-(2,6-dimethoxyphenyl)-pyrid-5-yl
1013.	2-(3,4-dimethoxyphenyl)-pyrid-5-yl
1014.	2-(3,5-dimethoxyphenyl)-pyrid-5-yl
1015.	2-(o-CN-phenoxy)-pyrid-5-yl
1016.	2-(m-CN-phenoxy)-pyrid-5-yl
1017.	2-(p-CN-phenoxy)-pyrid-5-yl
1018.	2-(o-NO_2-phenoxy)-pyrid-5-yl
1019.	2-(m-NO_2-phenoxy)-pyrid-5-yl
1020.	2-(p-NO_2-phenoxy)-pyrid-5-yl
1021.	2-(o-F-phenoxy)-pyrid-5-yl
1022.	2-(m-F-phenoxy)-pyrid-5-yl
1023.	2-(p-F-phenoxy)-pyrid-5-yl
1024.	2-(o-Cl-phenoxy)-pyrid-5-yl
1025.	2-(m-Cl-phenoxy)-pyrid-5-yl
1026.	2-(p-Cl-phenoxy)-pyrid-5-yl
1027.	2-(o-Br-phenoxy)-pyrid-5-yl
1028.	2-(m-Br-phenoxy)-pyrid-5-yl
1029.	2-(p-Br-phenoxy)-pyrid-5-yl
1030.	2-(o-CH_3-phenoxy)-pyrid-5-yl
1031.	2-(m-CH_3-phenoxy)-pyrid-5-yl
1032.	2-(p-CH_3-phenoxy)-pyrid-5-yl
1033.	2-(o-CF_3-phenoxy)-pyrid-5-yl
1034.	2-(m-CF_3-phenoxy)-pyrid-5-yl
1035.	2-(p-CF_3-phenoxy)-pyrid-5-yl

no.	R^3-A-
1036.	2-(o-CF_3-phenoxy)-pyrid-5-yl
1037.	2-(m-CF_3-phenoxy)-pyrid-5-yl
1038.	2-(p-CF_3-phenoxy)-pyrid-5-yl
1039.	2-(o-OCH_3-phenoxy)-pyrid-5-yl
1040.	2-(m-OCH_3-phenoxy)-pyrid-5-yl
1041.	2-(p-OCH_3-phenoxy)-pyrid-5-yl
1042.	2-(o-OCF_3-phenoxy)-pyrid-5-yl
1043.	2-(m-OCF_3-phenoxy)-pyrid-5-yl
1044.	2-(p-OCF_3-phenoxy)-pyrid-5-yl
1045.	2-(o-$COOCH_3$-phenoxy)-pyrid-5-yl
1046.	2-(m-$COOCH_3$-phenoxy)-pyrid-5-yl
1047.	2-(p-$COOCH_3$-phenoxy)-pyrid-5-yl
1048.	2-[o-$N(CH_3)_2$-phenoxy]-pyrid-5-yl
1049.	2-[m-$N(CH_3)_2$-phenoxy]-pyrid-5-yl
1050.	2-[p-$N(CH_3)_2$-phenoxy]-pyrid-5-yl
1051.	2-(2,3-dicyanophenoxy)-pyrid-5-yl
1052.	2-(2,4-dicyanophenoxy)-pyrid-5-yl
1053.	2-(2,5-dicyanophenoxy)-pyrid-5-yl
1054.	2-(2,6-dicyanophenoxy)-pyrid-5-yl
1055.	2-(3,4-dicyanophenoxy)-pyrid-5-yl
1056.	2-(3,5-dicyanophenoxy)-pyrid-5-yl
1057.	2-(2,3-difluorophenoxy)-pyrid-5-yl
1058.	2-(2,4-difluorophenoxy)-pyrid-5-yl
1059.	2-(2,5-difluorophenoxy)-pyrid-5-yl
1060.	2-(2,6-difluorophenoxy)-pyrid-5-yl
1061.	2-(3,4-difluorophenoxy)-pyrid-5-yl
1062.	2-(3,5-difluorophenoxy)-pyrid-5-yl
1063.	2-(2,3-dichlorophenoxy)-pyrid-5-yl
1064.	2-(2,4-dichlorophenoxy)-pyrid-5-yl
1065.	2-(2,5-dichlorophenoxy)-pyrid-5-yl
1066.	2-(2,6-dichlorophenoxy)-pyrid-5-yl
1067.	2-(3,4-dichlorophenoxy)-pyrid-5-yl
1068.	2-(3,5-dichlorophenoxy)-pyrid-5-yl
1069.	2-(2,3-dibromophenoxy)-pyrid-5-yl
1070.	2-(2,4-dibromophenoxy)-pyrid-5-yl
1071.	2-(2,5-dibromophenoxy)-pyrid-5-yl
1072.	2-(2,6-dibromophenoxy)-pyrid-5-yl
1073.	2-(3,4-dibromophenoxy)-pyrid-5-yl
1074.	2-(3,5-dibromophenoxy)-pyrid-5-yl
1075.	2-(2,3-dimethylphenoxy)-pyrid-5-yl
1076.	2-(2,4-dimethylphenoxy)-pyrid-5-yl
1077.	2-(2,5-dimethylphenoxy)-pyrid-5-yl
1078.	2-(2,6-dimethylphenoxy)-pyrid-5-yl
1079.	2-(3,4-dimethylphenoxy)-pyrid-5-yl
1080.	2-(3,5-dimethylphenoxy)-pyrid-5-yl
1081.	2-[2,3-di(trifluoromethyl)phenoxy]-pyrid-5-yl
1082.	2-[2,4-di(trifluoromethyl)phenoxy]-pyrid-5-yl
1083.	2-[2,5-di(trifluoromethyl)phenoxy]-pyrid-5-yl
1084.	2-[2,6-di(trifluoromethyl)phenoxy]-pyrid-5-yl

no.	R^3-A-
1085.	2-[3,4-di(trifluoromethyl)phenoxy]-pyrid-5-yl
1086.	2-[3,5-di(trifluoromethyl)phenoxy]-pyrid-5-yl
1087.	2-(2,3-dimethoxyphenoxy)-pyrid-5-yl
1088.	2-(2,4-dimethoxyphenoxy)-pyrid-5-yl
1089.	2-(2,5-dimethoxyphenoxy)-pyrid-5-yl
1090.	2-(2,6-dimethoxyphenoxy)-pyrid-5-yl
1091.	2-(3,4-dimethoxyphenoxy)-pyrid-5-yl
1092.	2-(3,5-dimethoxyphenoxy)-pyrid-5-yl
1093.	5-(o-CN-phenyl)-pyrid-3-yl
1094.	5-(m-CN-phenyl)-pyrid-3-yl
1095.	5-(p-CN-phenyl)-pyrid-3-yl
1096.	5-(o-NO_2-phenyl)-pyrid-3-yl
1097.	5-(m-NO_2-phenyl)-pyrid-3-yl
1098.	5-(p-NO_2-phenyl)-pyrid-3-yl
1099.	5-(o-F-phenyl)-pyrid-3-yl
1100.	5-(m-F-phenyl)-pyrid-3-yl
1101.	5-(p-F-phenyl)-pyrid-3-yl
1102.	5-(o-Cl-phenyl)-pyrid-3-yl
1103.	5-(m-Cl-phenyl)-pyrid-3-yl
1104.	5-(p-Cl-phenyl)-pyrid-3-yl
1105.	5-(o-Br-phenyl)-pyrid-3-yl
1106.	5-(m-Br-phenyl)-pyrid-3-yl
1107.	5-(p-Br-phenyl)-pyrid-3-yl
1108.	5-(o-CH_3-phenyl)-pyrid-3-yl
1109.	5-(m-CH_3-phenyl)-pyrid-3-yl
1110.	5-(p-CH_3-phenyl)-pyrid-3-yl
1111.	5-(o-CF_3-phenyl)-pyrid-3-yl
1112.	5-(m-CF_3-phenyl)-pyrid-3-yl
1113.	5-(p-CF_3-phenyl)-pyrid-3-yl
1114.	5-(o-CF_3-phenyl)-pyrid-3-yl
1115.	5-(m-CF_3-phenyl)-pyrid-3-yl

no.	R^3-A-
1116.	5-(p-CF_3-phenyl)-pyrid-3-yl
1117.	5-(o-OCH_3-phenyl)-pyrid-3-yl
1118.	5-(m-OCH_3-phenyl)-pyrid-3-yl
1119.	5-(p-OCH_3-phenyl)-pyrid-3-yl
1120.	5-(o-OCF_3-phenyl)-pyrid-3-yl
1121.	5-(m-OCF_3-phenyl)-pyrid-3-yl
1122.	5-(p-OCF_3-phenyl)-pyrid-3-yl
1123.	5-(o-$COOCH_3$-phenyl)-pyrid-3-yl
1124.	5-(m-$COOCH_3$-phenyl)-pyrid-3-yl
1125.	5-(p-$COOCH_3$-phenyl)-pyrid-3-yl
1126.	5-[o-$N(CH_3)_2$-phenyl]-pyrid-3-yl
1127.	5-[m-$N(CH_3)_2$-phenyl]-pyrid-3-yl
1128.	5-[p-$N(CH_3)_2$-phenyl]-pyrid-3-yl
1129.	5-(2,3-dicyanophenyl)-pyrid-3-yl
1130.	5-(2,4-dicyanophenyl)-pyrid-3-yl
1131.	5-(2,5-dicyanophenyl)-pyrid-3-yl
1132.	5-(2,6-dicyanophenyl)-pyrid-3-yl
1133.	5-(3,4-dicyanophenyl)-pyrid-3-yl
1134.	5-(3,5-dicyanophenyl)-pyrid-3-yl
1135.	5-(2,3-difluorophenyl)-pyrid-3-yl
1136.	5-(2,4-difluorophenyl)-pyrid-3-yl
1137.	5-(2,5-difluorophenyl)-pyrid-3-yl
1138.	5-(2,6-difluorophenyl)-pyrid-3-yl
1139.	5-(3,4-difluorophenyl)-pyrid-3-yl
1140.	5-(3,5-difluorophenyl)-pyrid-3-yl
1141.	5-(2,3-dichlorophenyl)-pyrid-3-yl
1142.	5-(2,4-dichlorophenyl)-pyrid-3-yl
1143.	5-(2,5-dichlorophenyl)-pyrid-3-yl
1144.	5-(2,6-dichlorophenyl)-pyrid-3-yl
1145.	5-(3,4-dichlorophenyl)-pyrid-3-yl
1146.	5-(3,5-dichlorophenyl)-pyrid-3-yl
1147.	5-(2,3-dibromophenyl)-pyrid-3-yl
1148.	5-(2,4-dibromophenyl)-pyrid-3-yl
1149.	5-(2,5-dibromophenyl)-pyrid-3-yl
1150.	5-(2,6-dibromophenyl)-pyrid-3-yl
1151.	5-(3,4-dibromophenyl)-pyrid-3-yl
1152.	5-(3,5-dibromophenyl)-pyrid-3-yl
1153.	5-(2,3-dimethylphenyl)-pyrid-3-yl
1154.	5-(2,4-dimethylphenyl)-pyrid-3-yl

no.	R^3-A-
1155.	5-(2,5-dimethylphenyl)-pyrid-3-yl
1156.	5-(2,6-dimethylphenyl)-pyrid-3-yl
1157.	5-(3,4-dimethylphenyl)-pyrid-3-yl
1158.	5-(3,5-dimethylphenyl)-pyrid-3-yl
1159.	5-[2,3-di(trifluoromethyl)phenyl]-pyrid-3-yl
1160.	5-[2,4-di(trifluoromethyl)phenyl]-pyrid-3-yl
1161.	5-[2,5-di(trifluoromethyl)phenyl]-pyrid-3-yl
1162.	5-[2,6-di(trifluoromethyl)phenyl]-pyrid-3-yl
1163.	5-[3,4-di(trifluoromethyl)phenyl]-pyrid-3-yl
1164.	5-[3,5-di(trifluoromethyl)phenyl]-pyrid-3-yl
1165.	5-(2,3-dimethoxyphenyl)-pyrid-3-yl
1166.	5-(2,4-dimethoxyphenyl)-pyrid-3-yl
1167.	5-(2,5-dimethoxyphenyl)-pyrid-3-yl
1168.	5-(2,6-dimethoxyphenyl)-pyrid-3-yl
1169.	5-(3,4-dimethoxyphenyl)-pyrid-3-yl
1170.	5-(3,5-dimethoxyphenyl)-pyrid-3-yl
1171.	5-(o-CN-phenoxy)-pyrid-3-yl
1172.	5-(m-CN-phenoxy)-pyrid-3-yl
1173.	5-(p-CN-phenoxy)-pyrid-3-yl
1174.	5-(o-NO_2-phenoxy)-pyrid-3-yl
1175.	5-(m-NO_2-phenoxy)-pyrid-3-yl
1176.	5-(p-NO_2-phenoxy)-pyrid-3-yl
1177.	5-(o-F-phenoxy)-pyrid-3-yl
1178.	5-(m-F-phenoxy)-pyrid-3-yl
1179.	5-(p-F-phenoxy)-pyrid-3-yl
1180.	5-(o-Cl-phenoxy)-pyrid-3-yl
1181.	5-(m-Cl-phenoxy)-pyrid-3-yl
1182.	5-(p-Cl-phenoxy)-pyrid-3-yl

no.	R^3-A-
1183.	5-(o-Br-phenoxy)-pyrid-3-yl
1184.	5-(m-Br-phenoxy)-pyrid-3-yl
1185.	5-(p-Br-phenoxy)-pyrid-3-yl
1186.	5-(o-CH_3-phenoxy)-pyrid-3-yl
1187.	5-(m-CH_3-phenoxy)-pyrid-3-yl
1188.	5-(p-CH_3-phenoxy)-pyrid-3-yl
1189.	5-(o-CF_3-phenoxy)-pyrid-3-yl
1190.	5-(m-CF_3-phenoxy)-pyrid-3-yl
1191.	5-(p-CF_3-phenoxy)-pyrid-3-yl
1192.	5-(o-CF_3-phenoxy)-pyrid-3-yl
1193.	5-(m-CF_3-phenoxy)-pyrid-3-yl
1194.	5-(p-CF_3-phenoxy)-pyrid-3-yl
1195.	5-(o-OCH_3-phenoxy)-pyrid-3-yl
1196.	5-(m-OCH_3-phenoxy)-pyrid-3-yl
1197.	5-(p-OCH_3-phenoxy)-pyrid-3-yl
1198.	5-(o-OCF_3-phenoxy)-pyrid-3-yl
1199.	5-(m-OCF_3-phenoxy)-pyrid-3-yl
1200.	5-(p-OCF_3-phenoxy)-pyrid-3-yl
1201.	5-(o-$COOCH_3$-phenoxy)-pyrid-3-yl
1202.	5-(m-$COOCH_3$-phenoxy)-pyrid-3-yl
1203.	5-(p-$COOCH_3$-phenoxy)-pyrid-3-yl
1204.	5-[o-$N(CH_3)_2$-phenoxy]-pyrid-3-yl
1205.	5-[m-$N(CH_3)_2$-phenoxy]-pyrid-3-yl
1206.	5-[p-$N(CH_3)_2$-phenoxy]-pyrid-3-yl
1207.	5-(2,3-dicyanophenoxy)-pyrid-3-yl
1208.	5-(2,4-dicyanophenoxy)-pyrid-3-yl
1209.	5-(2,5-dicyanophenoxy)-pyrid-3-yl
1210.	5-(2,6-dicyanophenoxy)-pyrid-3-yl
1211.	5-(3,4-dicyanophenoxy)-pyrid-3-yl
1212.	5-(3,5-dicyanophenoxy)-pyrid-3-yl

no.	R^3-A-
1213.	5-(2,3-difluorophenoxy)-pyrid-3-yl
1214.	5-(2,4-difluorophenoxy)-pyrid-3-yl
1215.	5-(2,5-difluorophenoxy)-pyrid-3-yl
1216.	5-(2,6-difluorophenoxy)-pyrid-3-yl
1217.	5-(3,4-difluorophenoxy)-pyrid-3-yl
1218.	5-(3,5-difluorophenoxy)-pyrid-3-yl
1219.	5-(2,3-dichlorophenoxy)-pyrid-3-yl
1220.	5-(2,4-dichlorophenoxy)-pyrid-3-yl
1221.	5-(2,5-dichlorophenoxy)-pyrid-3-yl
1222.	5-(2,6-dichlorophenoxy)-pyrid-3-yl
1223.	5-(3,4-dichlorophenoxy)-pyrid-3-yl
1224.	5-(3,5-dichlorophenoxy)-pyrid-3-yl
1225.	5-(2,3-dibromophenoxy)-pyrid-3-yl
1226.	5-(2,4-dibromophenoxy)-pyrid-3-yl
1227.	5-(2,5-dibromophenoxy)-pyrid-3-yl
1228.	5-(2,6-dibromophenoxy)-pyrid-3-yl
1229.	5-(3,4-dibromophenoxy)-pyrid-3-yl
1230.	5-(3,5-dibromophenoxy)-pyrid-3-yl
1231.	5-(2,3-dimethylphenoxy)-pyrid-3-yl
1232.	5-(2,4-dimethylphenoxy)-pyrid-3-yl
1233.	5-(2,5-dimethylphenoxy)-pyrid-3-yl
1234.	5-(2,6-dimethylphenoxy)-pyrid-3-yl
1235.	5-(3,4-dimethylphenoxy)-pyrid-3-yl
1236.	5-(3,5-dimethylphenoxy)-pyrid-3-yl
1237.	5-[2,3-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1238.	5-[2,4-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1239.	5-[2,5-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1240.	5-[2,6-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1241.	5-[3,4-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1242.	5-[3,5-di(trifluoromethyl)phenoxy]-pyrid-3-yl
1243.	5-(2,3-dimethoxyphenoxy)-pyrid-3-yl
1244.	5-(2,4-dimethoxyphenoxy)-pyrid-3-yl
1245.	5-(2,5-dimethoxyphenoxy)-pyrid-3-yl
1246.	5-(2,6-dimethoxyphenoxy)-pyrid-3-yl
1247.	5-(3,4-dimethoxyphenoxy)-pyrid-3-yl
1248.	5-(3,5-dimethoxyphenoxy)-pyrid-3-yl
1249.	5-(o-CN-phenyl)-pyrid-2-yl
1250.	5-(m-CN-phenyl)-pyrid-2-yl
1251.	5-(p-CN-phenyl)-pyrid-2-yl
1252.	5-(o-NO_2-phenyl)-pyrid-2-yl
1253.	5-(m-NO_2-phenyl)-pyrid-2-yl
1254.	5-(p-NO_2-phenyl)-pyrid-2-yl
1255.	5-(o-F-phenyl)-pyrid-2-yl
1256.	5-(m-F-phenyl)-pyrid-2-yl
1257.	5-(p-F-phenyl)-pyrid-2-yl
1258.	5-(o-Cl-phenyl)-pyrid-2-yl
1259.	5-(m-Cl-phenyl)-pyrid-2-yl
1260.	5-(p-Cl-phenyl)-pyrid-2-yl
1261.	5-(o-Br-phenyl)-pyrid-2-yl

no.	R^3-A-
1262.	5-(m-Br-phenyl)-pyrid-2-yl
1263.	5-(p-Br-phenyl)-pyrid-2-yl
1264.	5-(o-CH_3-phenyl)-pyrid-2-yl
1265.	5-(m-CH_3-phenyl)-pyrid-2-yl
1266.	5-(p-CH_3-phenyl)-pyrid-2-yl
1267.	5-(o-CF_3-phenyl)-pyrid-2-yl
1268.	5-(m-CF_3-phenyl)-pyrid-2-yl
1269.	5-(p-CF_3-phenyl)-pyrid-2-yl
1270.	5-(o-CF_3-phenyl)-pyrid-2-yl
1271.	5-(m-CF_3-phenyl)-pyrid-2-yl
1272.	5-(p-CF_3-phenyl)-pyrid-2-yl
1273.	5-(o-OCH_3-phenyl)-pyrid-2-yl
1274.	5-(m-OCH_3-phenyl)-pyrid-2-yl
1275.	5-(p-OCH_3-phenyl)-pyrid-2-yl
1276.	5-(o-OCF_3-phenyl)-pyrid-2-yl
1277.	5-(m-OCF_3-phenyl)-pyrid-2-yl
1278.	5-(p-OCF_3-phenyl)-pyrid-2-yl
1279.	5-(o-$COOCH_3$-phenyl)-pyrid-2-yl
1280.	5-(m-$COOCH_3$-phenyl)-pyrid-2-yl
1281.	5-(p-$COOCH_3$-phenyl)-pyrid-2-yl
1282.	5-[o-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1283.	5-[m-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1284.	5-[p-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1285.	5-(2,3-dicyanophenyl)-pyrid-2-yl
1286.	5-(2,4-dicyanophenyl)-pyrid-2-yl
1287.	5-(2,5-dicyanophenyl)-pyrid-2-yl
1288.	5-(2,6-dicyanophenyl)-pyrid-2-yl
1289.	5-(3,4-dicyanophenyl)-pyrid-2-yl
1290.	5-(3,5-dicyanophenyl)-pyrid-2-yl
1291.	5-(2,3-difluorophenyl)-pyrid-2-yl
1292.	5-(2,4-difluorophenyl)-pyrid-2-yl
1293.	5-(2,5-difluorophenyl)-pyrid-2-yl
1294.	5-(2,6-difluorophenyl)-pyrid-2-yl
1295.	5-(3,4-difluorophenyl)-pyrid-2-yl
1296.	5-(3,5-difluorophenyl)-pyrid-2-yl
1297.	5-(2,3-dichlorophenyl)-pyrid-2-yl
1298.	5-(2,4-dichlorophenyl)-pyrid-2-yl
1299.	5-(2,5-dichlorophenyl)-pyrid-2-yl
1300.	5-(2,6-dichlorophenyl)-pyrid-2-yl

no.	R^3-A-
1301.	5-(3,4-dichlorophenyl)-pyrid-2-yl
1302.	5-(3,5-dichlorophenyl)-pyrid-2-yl
1303.	5-(2,3-dibromophenyl)-pyrid-2-yl
1304.	5-(2,4-dibromophenyl)-pyrid-2-yl
1305.	5-(2,5-dibromophenyl)-pyrid-2-yl
1306.	5-(2,6-dibromophenyl)-pyrid-2-yl
1307.	5-(3,4-dibromophenyl)-pyrid-2-yl
1308.	5-(3,5-dibromophenyl)-pyrid-2-yl
1309.	5-(2,3-dimethylphenyl)-pyrid-2-yl
1310.	5-(2,4-dimethylphenyl)-pyrid-2-yl
1311.	5-(2,5-dimethylphenyl)-pyrid-2-yl
1312.	5-(2,6-dimethylphenyl)-pyrid-2-yl
1313.	5-(3,4-dimethylphenyl)-pyrid-2-yl
1314.	5-(3,5-dimethylphenyl)-pyrid-2-yl
1315.	5-[2,3-di(trifluoromethyl)phenyl]-pyrid-2-yl
1316.	5-[2,4-di(trifluoromethyl)phenyl]-pyrid-2-yl
1317.	5-[2,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1318.	5-[2,6-di(trifluoromethyl)phenyl]-pyrid-2-yl
1319.	5-[3,4-di(trifluoromethyl)phenyl]-pyrid-2-yl
1320.	5-[3,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1321.	5-(2,3-dimethoxyphenyl)-pyrid-2-yl
1322.	5-(2,4-dimethoxyphenyl)-pyrid-2-yl
1323.	5-(2,5-dimethoxyphenyl)-pyrid-2-yl
1324.	5-(2,6-dimethoxyphenyl)-pyrid-2-yl
1325.	5-(3,4-dimethoxyphenyl)-pyrid-2-yl
1326.	5-(3,5-dimethoxyphenyl)-pyrid-2-yl
1327.	5-(o-CN-phenoxy)-pyrid-2-yl
1328.	5-(m-CN-phenoxy)-pyrid-2-yl

no.	R^3-A-
1329.	5-(p-CN-phenoxy)-pyrid-2-yl
1330.	5-(o-NO_2-phenoxy)-pyrid-2-yl
1331.	5-(m-NO_2-phenoxy)-pyrid-2-yl
1332.	5-(p-NO_2-phenoxy)-pyrid-2-yl
1333.	5-(o-F-phenoxy)-pyrid-2-yl
1334.	5-(m-F-phenoxy)-pyrid-2-yl
1335.	5-(p-F-phenoxy)-pyrid-2-yl
1336.	5-(o-Cl-phenoxy)-pyrid-2-yl
1337.	5-(m-Cl-phenoxy)-pyrid-2-yl
1338.	5-(p-Cl-phenoxy)-pyrid-2-yl
1339.	5-(o-Br-phenoxy)-pyrid-2-yl
1340.	5-(m-Br-phenoxy)-pyrid-2-yl
1341.	5-(p-Br-phenoxy)-pyrid-2-yl
1342.	5-(o-CH_3-phenoxy)-pyrid-2-yl
1343.	5-(m-CH_3-phenoxy)-pyrid-2-yl
1344.	5-(p-CH_3-phenoxy)-pyrid-2-yl
1345.	5-(o-CF_3-phenoxy)-pyrid-2-yl
1346.	5-(m-CF_3-phenoxy)-pyrid-2-yl
1347.	5-(p-CF_3-phenoxy)-pyrid-2-yl
1348.	5-(o-CF_3-phenoxy)-pyrid-2-yl
1349.	5-(m-CF_3-phenoxy)-pyrid-2-yl
1350.	5-(p-CF_3-phenoxy)-pyrid-2-yl
1351.	5-(o-OCH_3-phenoxy)-pyrid-2-yl
1352.	5-(m-OCH_3-phenoxy)-pyrid-2-yl
1353.	5-(p-OCH_3-phenoxy)-pyrid-2-yl
1354.	5-(o-OCF_3-phenoxy)-pyrid-2-yl
1355.	5-(m-OCF_3-phenoxy)-pyrid-2-yl
1356.	5-(p-OCF_3-phenoxy)-pyrid-2-yl
1357.	5-(o-$COOCH_3$-phenoxy)-pyrid-2-yl
1358.	5-(m-$COOCH_3$-phenoxy)-pyrid-2-yl
1359.	5-(p-$COOCH_3$-phenoxy)-pyrid-2-yl
1360.	5-[o-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1361.	5-[m-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1362.	5-[p-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1363.	5-(2,3-dicyanophenoxy)-pyrid-2-yl
1364.	5-(2,4-dicyanophenoxy)-pyrid-2-yl
1365.	5-(2,5-dicyanophenoxy)-pyrid-2-yl
1366.	5-(2,6-dicyanophenoxy)-pyrid-2-yl
1367.	5-(3,4-dicyanophenoxy)-pyrid-2-yl
1368.	5-(3,5-dicyanophenoxy)-pyrid-2-yl
1369.	5-(2,3-difluorophenoxy)-pyrid-2-yl
1370.	5-(2,4-difluorophenoxy)-pyrid-2-yl
1371.	5-(2,5-difluorophenoxy)-pyrid-2-yl
1372.	5-(2,6-difluorophenoxy)-pyrid-2-yl
1373.	5-(3,4-difluorophenoxy)-pyrid-2-yl
1374.	5-(3,5-difluorophenoxy)-pyrid-2-yl
1375.	5-(2,3-dichlorophenoxy)-pyrid-2-yl
1376.	5-(2,4-dichlorophenoxy)-pyrid-2-yl
1377.	5-(2,5-dichlorophenoxy)-pyrid-2-yl
1378.	5-(2,6-dichlorophenoxy)-pyrid-2-yl
1379.	5-(3,4-dichlorophenoxy)-pyrid-2-yl
1380.	5-(3,5-dichlorophenoxy)-pyrid-2-yl
1381.	5-(2,3-dibromophenoxy)-pyrid-2-yl
1382.	5-(2,4-dibromophenoxy)-pyrid-2-yl
1383.	5-(2,5-dibromophenoxy)-pyrid-2-yl
1384.	5-(2,6-dibromophenoxy)-pyrid-2-yl
1385.	5-(3,4-dibromophenoxy)-pyrid-2-yl
1386.	5-(3,5-dibromophenoxy)-pyrid-2-yl

no.	R^3-A-
1387.	5-(2,3-dimethylphenoxy)-pyrid-2-yl
1388.	5-(2,4-dimethylphenoxy)-pyrid-2-yl
1389.	5-(2,5-dimethylphenoxy)-pyrid-2-yl
1390.	5-(2,6-dimethylphenoxy)-pyrid-2-yl
1391.	5-(3,4-dimethylphenoxy)-pyrid-2-yl
1392.	5-(3,5-dimethylphenoxy)-pyrid-2-yl
1393.	5-[2,3-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1394.	5-[2,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1395.	5-[2,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1396.	5-[2,6-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1397.	5-[3,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1398.	5-[3,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1399.	5-(2,3-dimethoxyphenoxy)-pyrid-2-yl
1400.	5-(2,4-dimethoxyphenoxy)-pyrid-2-yl
1401.	5-(2,5-dimethoxyphenoxy)-pyrid-2-yl
1402.	5-(2,6-dimethoxyphenoxy)-pyrid-2-yl
1403.	5-(3,4-dimethoxyphenoxy)-pyrid-2-yl
1404.	5-(3,5-dimethoxyphenoxy)-pyrid-2-yl
1405.	6-(o-CN-phenyl)-pyrid-2-yl
1406.	6-(m-CN-phenyl)-pyrid-2-yl
1407.	6-(p-CN-phenyl)-pyrid-2-yl

no.	R^3-A-
1408.	6-(o-NO_2-phenyl)-pyrid-2-yl
1409.	6-(m-NO_2-phenyl)-pyrid-2-yl
1410.	6-(p-NO_2-phenyl)-pyrid-2-yl
1411.	6-(o-F-phenyl)-pyrid-2-yl
1412.	6-(m-F-phenyl)-pyrid-2-yl
1413.	6-(p-F-phenyl)-pyrid-2-yl
1414.	6-(o-Cl-phenyl)-pyrid-2-yl
1415.	6-(m-Cl-phenyl)-pyrid-2-yl
1416.	6-(p-Cl-phenyl)-pyrid-2-yl
1417.	6-(o-Br-phenyl)-pyrid-2-yl
1418.	6-(m-Br-phenyl)-pyrid-2-yl
1419.	6-(p-Br-phenyl)-pyrid-2-yl
1420.	6-(o-CH_3-phenyl)-pyrid-2-yl
1421.	6-(m-CH_3-phenyl)-pyrid-2-yl
1422.	6-(p-CH_3-phenyl)-pyrid-2-yl
1423.	6-(o-CF_3-phenyl)-pyrid-2-yl
1424.	6-(m-CF_3-phenyl)-pyrid-2-yl
1425.	6-(p-CF_3-phenyl)-pyrid-2-yl
1426.	6-(o-CF_3-phenyl)-pyrid-2-yl
1427.	6-(m-CF_3-phenyl)-pyrid-2-yl
1428.	6-(p-CF_3-phenyl)-pyrid-2-yl
1429.	6-(o-OCH_3-phenyl)-pyrid-2-yl
1430.	6-(m-OCH_3-phenyl)-pyrid-2-yl
1431.	6-(p-OCH_3-phenyl)-pyrid-2-yl
1432.	6-(o-OCF_3-phenyl)-pyrid-2-yl
1433.	6-(m-OCF_3-phenyl)-pyrid-2-yl
1434.	6-(p-OCF_3-phenyl)-pyrid-2-yl
1435.	6-(o-$COOCH_3$-phenyl)-pyrid-2-yl
1436.	6-(m-$COOCH_3$-phenyl)-pyrid-2-yl
1437.	6-(p-$COOCH_3$-phenyl)-pyrid-2-yl
1438.	6-[o-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1439.	6-[m-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1440.	6-[p-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1441.	6-(2,3-dicyanophenyl)-pyrid-2-yl
1442.	6-(2,4-dicyanophenyl)-pyrid-2-yl
1443.	6-(2,5-dicyanophenyl)-pyrid-2-yl
1444.	6-(2,6-dicyanophenyl)-pyrid-2-yl
1445.	6-(3,4-dicyanophenyl)-pyrid-2-yl
1446.	6-(3,5-dicyanophenyl)-pyrid-2-yl

no.	R^3-A-
1447	6-(2,3-difluorophenyl)-pyrid-2-yl
1448	6-(2,4-difluorophenyl)-pyrid-2-yl
1449	6-(2,5-difluorophenyl)-pyrid-2-yl
1450	6-(2,6-difluorophenyl)-pyrid-2-yl
1451	6-(3,4-difluorophenyl)-pyrid-2-yl
1452	6-(3,5-difluorophenyl)-pyrid-2-yl
1453	6-(2,3-dichlorophenyl)-pyrid-2-yl
1454	6-(2,4-dichlorophenyl)-pyrid-2-yl
1455	6-(2,5-dichlorophenyl)-pyrid-2-yl
1456	6-(2,6-dichlorophenyl)-pyrid-2-yl
1457	6-(3,4-dichlorophenyl)-pyrid-2-yl
1458	6-(3,5-dichlorophenyl)-pyrid-2-yl
1459	6-(2,3-dibromophenyl)-pyrid-2-yl
1460	6-(2,4-dibromophenyl)-pyrid-2-yl
1461	6-(2,5-dibromophenyl)-pyrid-2-yl
1462	6-(2,6-dibromophenyl)-pyrid-2-yl
1463	6-(3,4-dibromophenyl)-pyrid-2-yl
1464	6-(3,5-dibromophenyl)-pyrid-2-yl
1465	6-(2,3-dimethylphenyl)-pyrid-2-yl
1466	6-(2,4-dimethylphenyl)-pyrid-2-yl
1467	6-(2,5-dimethylphenyl)-pyrid-2-yl
1468	6-(2,6-dimethylphenyl)-pyrid-2-yl
1469	6-(3,4-dimethylphenyl)-pyrid-2-yl
1470	6-(3,5-dimethylphenyl)-pyrid-2-yl
1471	6-[2,3-di(trifluoromethyl)phenyl]-pyrid-2-yl
1472	6-[2,4-di(trifluoromethyl)phenyl]-pyrid-2-yl
1473	6-[2,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1474	6-[2,6-di(trifluoromethyl)phenyl]-pyrid-2-yl
1475	6-[3,4-di(trifluoromethyl)phenyl]-pyrid-2-yl
1476	6-[3,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1477	6-(2,3-dimethoxyphenyl)-pyrid-2-yl
1478	6-(2,4-dimethoxyphenyl)-pyrid-2-yl
1479	6-(2,5-dimethoxyphenyl)-pyrid-2-yl
1480	6-(2,6-dimethoxyphenyl)-pyrid-2-yl
1481	6-(3,4-dimethoxyphenyl)-pyrid-2-yl
1482	6-(3,5-dimethoxyphenyl)-pyrid-2-yl
1483	6-(o-CN-phenoxy)-pyrid-2-yl
1484	6-(m-CN-phenoxy)-pyrid-2-yl
1485	6-(p-CN-phenoxy)-pyrid-2-yl
1486	6-(o-NO_2-phenoxy)-pyrid-2-yl
1487	6-(m-NO_2-phenoxy)-pyrid-2-yl
1488	6-(p-NO_2-phenoxy)-pyrid-2-yl
1489	6-(o-F-phenoxy)-pyrid-2-yl
1490	6-(m-F-phenoxy)-pyrid-2-yl
1491	6-(p-F-phenoxy)-pyrid-2-yl
1492	6-(o-Cl-phenoxy)-pyrid-2-yl
1493	6-(m-Cl-phenoxy)-pyrid-2-yl
1494	6-(p-Cl-phenoxy)-pyrid-2-yl
1495	6-(o-Br-phenoxy)-pyrid-2-yl
1496	6-(m-Br-phenoxy)-pyrid-2-yl
1497	6-(p-Br-phenoxy)-pyrid-2-yl
1498	6-(o-CH_3-phenoxy)-pyrid-2-yl
1499	6-(m-CH_3-phenoxy)-pyrid-2-yl
1500	6-(p-CH_3-phenoxy)-pyrid-2-yl
1501	6-(o-CF_3-phenoxy)-pyrid-2-yl
1502	6-(m-CF_3-phenoxy)-pyrid-2-yl
1503	6-(p-CF_3-phenoxy)-pyrid-2-yl
1504	6-(o-CF_3-phenoxy)-pyrid-2-yl
1505	6-(m-CF_3-phenoxy)-pyrid-2-yl
1506	6-(p-CF_3-phenoxy)-pyrid-2-yl
1507	6-(o-OCH_3-phenoxy)-pyrid-2-yl
1508	6-(m-OCH_3-phenoxy)-pyrid-2-yl
1509	6-(p-OCH_3-phenoxy)-pyrid-2-yl
1510	6-(o-OCF_3-phenoxy)-pyrid-2-yl
1511	6-(m-OCF_3-phenoxy)-pyrid-2-yl

no.	R^3-A-
1512.	6-(p-OCF_3-phenoxy)-pyrid-2-yl
1513.	6-(o-$COOCH_3$-phenoxy)-pyrid-2-yl
1514.	6-(m-$COOCH_3$-phenoxy)-pyrid-2-yl
1515.	6-(p-$COOCH_3$-phenoxy)-pyrid-2-yl
1516.	6-[o-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1517.	6-[m-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1518.	6-[p-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1519.	6-(2,3-dicyanophenoxy)-pyrid-2-yl
1520.	6-(2,4-dicyanophenoxy)-pyrid-2-yl
1521.	6-(2,5-dicyanophenoxy)-pyrid-2-yl
1522.	6-(2,6-dicyanophenoxy)-pyrid-2-yl
1523.	6-(3,4-dicyanophenoxy)-pyrid-2-yl
1524.	6-(3,5-dicyanophenoxy)-pyrid-2-yl
1525.	6-(2,3-difluorophenoxy)-pyrid-2-yl
1526.	6-(2,4-difluorophenoxy)-pyrid-2-yl
1527.	6-(2,5-difluorophenoxy)-pyrid-2-yl
1528.	6-(2,6-difluorophenoxy)-pyrid-2-yl
1529.	6-(3,4-difluorophenoxy)-pyrid-2-yl
1530.	6-(3,5-difluorophenoxy)-pyrid-2-yl
1531.	6-(2,3-dichlorophenoxy)-pyrid-2-yl
1532.	6-(2,4-dichlorophenoxy)-pyrid-2-yl
1533.	6-(2,5-dichlorophenoxy)-pyrid-2-yl
1534.	6-(2,6-dichlorophenoxy)-pyrid-2-yl
1535.	6-(3,4-dichlorophenoxy)-pyrid-2-yl
1536.	6-(3,5-dichlorophenoxy)-pyrid-2-yl

no.	R^3-A-
1537.	6-(2,3-dibromophenoxy)-pyrid-2-yl
1538.	6-(2,4-dibromophenoxy)-pyrid-2-yl
1539.	6-(2,5-dibromophenoxy)-pyrid-2-yl
1540.	6-(2,6-dibromophenoxy)-pyrid-2-yl
1541.	6-(3,4-dibromophenoxy)-pyrid-2-yl
1542.	6-(3,5-dibromophenoxy)-pyrid-2-yl
1543.	6-(2,3-dimethylphenoxy)-pyrid-2-yl
1544.	6-(2,4-dimethylphenoxy)-pyrid-2-yl
1545.	6-(2,5-dimethylphenoxy)-pyrid-2-yl
1546.	6-(2,6-dimethylphenoxy)-pyrid-2-yl
1547.	6-(3,4-dimethylphenoxy)-pyrid-2-yl
1548.	6-(3,5-dimethylphenoxy)-pyrid-2-yl
1549.	6-[2,3-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1550.	6-[2,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1551.	6-[2,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1552.	6-[2,6-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1553.	6-[3,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1554.	6-[3,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1555.	6-(2,3-dimethoxyphenoxy)-pyrid-2-yl
1556.	6-(2,4-dimethoxyphenoxy)-pyrid-2-yl

no.	R^3-A-
1557.	6-(2,5-dimethoxyphenoxy)-pyrid-2-yl
1558.	6-(2,6-dimethoxyphenoxy)-pyrid-2-yl
1559.	6-(3,4-dimethoxyphenoxy)-pyrid-2-yl
1560.	6-(3,5-dimethoxyphenoxy)-pyrid-2-yl
1561.	4-(o-CN-phenyl)-pyrid-2-yl
1562.	4-(m-CN-phenyl)-pyrid-2-yl
1563.	4-(p-CN-phenyl)-pyrid-2-yl
1564.	4-(o-NO_2-phenyl)-pyrid-2-yl
1565.	4-(m-NO_2-phenyl)-pyrid-2-yl
1566.	4-(p-NO_2-phenyl)-pyrid-2-yl
1567.	4-(o-F-phenyl)-pyrid-2-yl
1568.	4-(m-F-phenyl)-pyrid-2-yl
1569.	4-(p-F-phenyl)-pyrid-2-yl
1570.	4-(o-Cl-phenyl)-pyrid-2-yl
1571.	4-(m-Cl-phenyl)-pyrid-2-yl
1572.	4-(p-Cl-phenyl)-pyrid-2-yl
1573.	4-(o-Br-phenyl)-pyrid-2-yl
1574.	4-(m-Br-phenyl)-pyrid-2-yl
1575.	4-(p-Br-phenyl)-pyrid-2-yl
1576.	4-(o-CH_3-phenyl)-pyrid-2-yl
1577.	4-(m-CH_3-phenyl)-pyrid-2-yl
1578.	4-(p-CH_3-phenyl)-pyrid-2-yl
1579.	4-(o-CF_3-phenyl)-pyrid-2-yl
1580.	4-(m-CF_3-phenyl)-pyrid-2-yl
1581.	4-(p-CF_3-phenyl)-pyrid-2-yl
1582.	4-(o-CF_3-phenyl)-pyrid-2-yl
1583.	4-(m-CF_3-phenyl)-pyrid-2-yl
1584.	4-(p-CF_3-phenyl)-pyrid-2-yl
1585.	4-(o-OCH_3-phenyl)-pyrid-2-yl
1586.	4-(m-OCH_3-phenyl)-pyrid-2-yl
1587.	4-(p-OCH_3-phenyl)-pyrid-2-yl
1588.	4-(o-OCF_3-phenyl)-pyrid-2-yl
1589.	4-(m-OCF_3-phenyl)-pyrid-2-yl
1590.	4-(p-OCF_3-phenyl)-pyrid-2-yl
1591.	4-(o-$COOCH_3$-phenyl)-pyrid-2-yl

no.	R^3-A-
1592.	4-(m-$COOCH_3$-phenyl)-pyrid-2-yl
1593.	4-(p-$COOCH_3$-phenyl)-pyrid-2-yl
1594.	4-[o-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1595.	4-[m-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1596.	4-[p-$N(CH_3)_2$-phenyl]-pyrid-2-yl
1597.	4-(2,3-dicyanophenyl)-pyrid-2-yl
1598.	4-(2,4-dicyanophenyl)-pyrid-2-yl
1599.	4-(2,5-dicyanophenyl)-pyrid-2-yl
1600.	4-(2,6-dicyanophenyl)-pyrid-2-yl
1601.	4-(3,4-dicyanophenyl)-pyrid-2-yl
1602.	4-(3,5-dicyanophenyl)-pyrid-2-yl
1603.	4-(2,3-difluorophenyl)-pyrid-2-yl
1604.	4-(2,4-difluorophenyl)-pyrid-2-yl
1605.	4-(2,5-difluorophenyl)-pyrid-2-yl
1606.	4-(2,6-difluorophenyl)-pyrid-2-yl
1607.	4-(3,4-difluorophenyl)-pyrid-2-yl
1608.	4-(3,5-difluorophenyl)-pyrid-2-yl
1609.	4-(2,3-dichlorophenyl)-pyrid-2-yl
1610.	4-(2,4-dichlorophenyl)-pyrid-2-yl
1611.	4-(2,5-dichlorophenyl)-pyrid-2-yl
1612.	4-(2,6-dichlorophenyl)-pyrid-2-yl
1613.	4-(3,4-dichlorophenyl)-pyrid-2-yl
1614.	4-(3,5-dichlorophenyl)-pyrid-2-yl
1615.	4-(2,3-dibromophenyl)-pyrid-2-yl
1616.	4-(2,4-dibromophenyl)-pyrid-2-yl
1617.	4-(2,5-dibromophenyl)-pyrid-2-yl
1618.	4-(2,6-dibromophenyl)-pyrid-2-yl
1619.	4-(3,4-dibromophenyl)-pyrid-2-yl
1620.	4-(3,5-dibromophenyl)-pyrid-2-yl
1621.	4-(2,3-dimethylphenyl)-pyrid-2-yl
1622.	4-(2,4-dimethylphenyl)-pyrid-2-yl
1623.	4-(2,5-dimethylphenyl)-pyrid-2-yl
1624.	4-(2,6-dimethylphenyl)-pyrid-2-yl
1625.	4-(3,4-dimethylphenyl)-pyrid-2-yl
1626.	4-(3,5-dimethylphenyl)-pyrid-2-yl
1627.	4-[2,3-di(trifluoromethyl)phenyl]-pyrid-2-yl
1628.	4-[2,4-di(trifluoromethyl)phenyl]-pyrid-2-yl

no.	R^3-A-
1629.	4-[2,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1630.	4-[2,6-di(trifluoromethyl)phenyl]-pyrid-2-yl
1631.	4-[3,4-di(trifluoromethyl)phenyl]-pyrid-2-yl
1632.	4-[3,5-di(trifluoromethyl)phenyl]-pyrid-2-yl
1633.	4-(2,3-dimethoxyphenyl)-pyrid-2-yl
1634.	4-(2,4-dimethoxyphenyl)-pyrid-2-yl
1635.	4-(2,5-dimethoxyphenyl)-pyrid-2-yl
1636.	4-(2,6-dimethoxyphenyl)-pyrid-2-yl
1637.	4-(3,4-dimethoxyphenyl)-pyrid-2-yl
1638.	4-(3,5-dimethoxyphenyl)-pyrid-2-yl
1639.	4-(o-CN-phenoxy)-pyrid-2-yl
1640.	4-(m-CN-phenoxy)-pyrid-2-yl
1641.	4-(p-CN-phenoxy)-pyrid-2-yl
1642.	4-(o-NO_2-phenoxy)-pyrid-2-yl
1643.	4-(m-NO_2-phenoxy)-pyrid-2-yl
1644.	4-(p-NO_2-phenoxy)-pyrid-2-yl
1645.	4-(o-F-phenoxy)-pyrid-2-yl
1646.	4-(m-F-phenoxy)-pyrid-2-yl
1647.	4-(p-F-phenoxy)-pyrid-2-yl
1648.	4-(o-Cl-phenoxy)-pyrid-2-yl
1649.	4-(m-Cl-phenoxy)-pyrid-2-yl
1650.	4-(p-Cl-phenoxy)-pyrid-2-yl
1651.	4-(o-Br-phenoxy)-pyrid-2-yl
1652.	4-(m-Br-phenoxy)-pyrid-2-yl
1653.	4-(p-Br-phenoxy)-pyrid-2-yl
1654.	4-(o-CH_3-phenoxy)-pyrid-2-yl
1655.	4-(m-CH_3-phenoxy)-pyrid-2-yl
1656.	4-(p-CH_3-phenoxy)-pyrid-2-yl
1657.	4-(o-CF_3-phenoxy)-pyrid-2-yl
1658.	4-(m-CF_3-phenoxy)-pyrid-2-yl
1659.	4-(p-CF_3-phenoxy)-pyrid-2-yl
1660.	4-(o-CF_3-phenoxy)-pyrid-2-yl
1661.	4-(m-CF_3-phenoxy)-pyrid-2-yl
1662.	4-(p-CF_3-phenoxy)-pyrid-2-yl
1663.	4-(o-OCH_3-phenoxy)-pyrid-2-yl
1664.	4-(m-OCH_3-phenoxy)-pyrid-2-yl
1665.	4-(p-OCH_3-phenoxy)-pyrid-2-yl
1666.	4-(o-OCF_3-phenoxy)-pyrid-2-yl
1667.	4-(m-OCF_3-phenoxy)-pyrid-2-yl
1668.	4-(p-OCF_3-phenoxy)-pyrid-2-yl
1669.	4-(o-$COOCH_3$-phenoxy)-pyrid-2-yl
1670.	4-(m-$COOCH_3$-phenoxy)-pyrid-2-yl
1671.	4-(p-$COOCH_3$-phenoxy)-pyrid-2-yl
1672.	4-[o-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1673.	4-[m-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1674.	4-[p-$N(CH_3)_2$-phenoxy]-pyrid-2-yl
1675.	4-(2,3-dicyanophenoxy)-pyrid-2-yl
1676.	4-(2,4-dicyanophenoxy)-pyrid-2-yl
1677.	4-(2,5-dicyanophenoxy)-pyrid-2-yl
1678.	4-(2,6-dicyanophenoxy)-pyrid-2-yl
1679.	4-(3,4-dicyanophenoxy)-pyrid-2-yl
1680.	4-(3,5-dicyanophenoxy)-pyrid-2-yl
1681.	4-(2,3-difluorophenoxy)-pyrid-2-yl
1682.	4-(2,4-difluorophenoxy)-pyrid-2-yl
1683.	4-(2,5-difluorophenoxy)-pyrid-2-yl
1684.	4-(2,6-difluorophenoxy)-pyrid-2-yl
1685.	4-(3,4-difluorophenoxy)-pyrid-2-yl
1686.	4-(3,5-difluorophenoxy)-pyrid-2-yl

no.	R^3-A-
1687.	4-(2,3-dichlorophenoxy)-pyrid-2-yl
1688.	4-(2,4-dichlorophenoxy)-pyrid-2-yl
1689.	4-(2,5-dichlorophenoxy)-pyrid-2-yl
1690.	4-(2,6-dichlorophenoxy)-pyrid-2-yl
1691.	4-(3,4-dichlorophenoxy)-pyrid-2-yl
1692.	4-(3,5-dichlorophenoxy)-pyrid-2-yl
1693.	4-(2,3-dibromophenoxy)-pyrid-2-yl
1694.	4-(2,4-dibromophenoxy)-pyrid-2-yl
1695.	4-(2,5-dibromophenoxy)-pyrid-2-yl
1696.	4-(2,6-dibromophenoxy)-pyrid-2-yl
1697.	4-(3,4-dibromophenoxy)-pyrid-2-yl
1698.	4-(3,5-dibromophenoxy)-pyrid-2-yl
1699.	4-(2,3-dimethylphenoxy)-pyrid-2-yl
1700.	4-(2,4-dimethylphenoxy)-pyrid-2-yl
1701.	4-(2,5-dimethylphenoxy)-pyrid-2-yl
1702.	4-(2,6-dimethylphenoxy)-pyrid-2-yl
1703.	4-(3,4-dimethylphenoxy)-pyrid-2-yl
1704.	4-(3,5-dimethylphenoxy)-pyrid-2-yl
1705.	4-[2,3-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1706.	4-[2,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1707.	4-[2,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1708.	4-[2,6-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1709.	4-[3,4-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1710.	4-[3,5-di(trifluoromethyl)phenoxy]-pyrid-2-yl
1711.	4-(2,3-dimethoxyphenoxy)-pyrid-2-yl
1712.	4-(2,4-dimethoxyphenoxy)-pyrid-2-yl
1713.	4-(2,5-dimethoxyphenoxy)-pyrid-2-yl
1714.	4-(2,6-dimethoxyphenoxy)-pyrid-2-yl
1715.	4-(3,4-dimethoxyphenoxy)-pyrid-2-yl
1716.	4-(3,5-dimethoxyphenoxy)-pyrid-2-yl
1717.	6-(o-CN-phenyl)-pyrid-4-yl
1718.	6-(m-CN-phenyl)-pyrid-4-yl
1719.	6-(p-CN-phenyl)-pyrid-4-yl
1720.	6-(o-NO_2-phenyl)-pyrid-4-yl
1721.	6-(m-NO_2-phenyl)-pyrid-4-yl
1722.	6-(p-NO_2-phenyl)-pyrid-4-yl
1723.	6-(o-F-phenyl)-pyrid-4-yl
1724.	6-(m-F-phenyl)-pyrid-4-yl
1725.	6-(p-F-phenyl)-pyrid-4-yl
1726.	6-(o-Cl-phenyl)-pyrid-4-yl
1727.	6-(m-Cl-phenyl)-pyrid-4-yl
1728.	6-(p-Cl-phenyl)-pyrid-4-yl
1729.	6-(o-Br-phenyl)-pyrid-4-yl
1730.	6-(m-Br-phenyl)-pyrid-4-yl
1731.	6-(p-Br-phenyl)-pyrid-4-yl
1732.	6-(o-CH_3-phenyl)-pyrid-4-yl
1733.	6-(m-CH_3-phenyl)-pyrid-4-yl
1734.	6-(p-CH_3-phenyl)-pyrid-4-yl
1735.	6-(o-CF_3-phenyl)-pyrid-4-yl

no.	R^3-A-
1736.	6-(m-CF_3-phenyl)-pyrid-4-yl
1737.	6-(p-CF_3-phenyl)-pyrid-4-yl
1738.	6-(o-CF_3-phenyl)-pyrid-4-yl
1739.	6-(m-CF_3-phenyl)-pyrid-4-yl
1740.	6-(p-CF_3-phenyl)-pyrid-4-yl
1741.	6-(o-OCH_3-phenyl)-pyrid-4-yl
1742.	6-(m-OCH_3-phenyl)-pyrid-4-yl
1743.	6-(p-OCH_3-phenyl)-pyrid-4-yl
1744.	6-(o-OCF_3-phenyl)-pyrid-4-yl
1745.	6-(m-OCF_3-phenyl)-pyrid-4-yl
1746.	6-(p-OCF_3-phenyl)-pyrid-4-yl
1747.	6-(o-$COOCH_3$-phenyl)-pyrid-4-yl
1748.	6-(m-$COOCH_3$-phenyl)-pyrid-4-yl
1749.	6-(p-$COOCH_3$-phenyl)-pyrid-4-yl
1750.	6-[o-$N(CH_3)_2$-phenyl]-pyrid-4-yl
1751.	6-[m-$N(CH_3)_2$-phenyl]-pyrid-4-yl
1752.	6-[p-$N(CH_3)_2$-phenyl]-pyrid-4-yl
1753.	6-(2,3-dicyanophenyl)-pyrid-4-yl
1754.	6-(2,4-dicyanophenyl)-pyrid-4-yl
1755.	6-(2,5-dicyanophenyl)-pyrid-4-yl
1756.	6-(2,6-dicyanophenyl)-pyrid-4-yl
1757.	6-(3,4-dicyanophenyl)-pyrid-4-yl
1758.	6-(3,5-dicyanophenyl)-pyrid-4-yl
1759.	6-(2,3-difluorophenyl)-pyrid-4-yl
1760.	6-(2,4-difluorophenyl)-pyrid-4-yl
1761.	6-(2,5-difluorophenyl)-pyrid-4-yl
1762.	6-(2,6-difluorophenyl)-pyrid-4-yl
1763.	6-(3,4-difluorophenyl)-pyrid-4-yl
1764.	6-(3,5-difluorophenyl)-pyrid-4-yl
1765.	6-(2,3-dichlorophenyl)-pyrid-4-yl
1766.	6-(2,4-dichlorophenyl)-pyrid-4-yl
1767.	6-(2,5-dichlorophenyl)-pyrid-4-yl
1768.	6-(2,6-dichlorophenyl)-pyrid-4-yl
1769.	6-(3,4-dichlorophenyl)-pyrid-4-yl
1770.	6-(3,5-dichlorophenyl)-pyrid-4-yl
1771.	6-(2,3-dibromophenyl)-pyrid-4-yl
1772.	6-(2,4-dibromophenyl)-pyrid-4-yl
1773.	6-(2,5-dibromophenyl)-pyrid-4-yl
1774.	6-(2,6-dibromophenyl)-pyrid-4-yl

no.	R^3-A-
1775.	6-(3,4-dibromophenyl)-pyrid-4-yl
1776.	6-(3,5-dibromophenyl)-pyrid-4-yl
1777.	6-(2,3-dimethylphenyl)-pyrid-4-yl
1778.	6-(2,4-dimethylphenyl)-pyrid-4-yl
1779.	6-(2,5-dimethylphenyl)-pyrid-4-yl
1780.	6-(2,6-dimethylphenyl)-pyrid-4-yl
1781.	6-(3,4-dimethylphenyl)-pyrid-4-yl
1782.	6-(3,5-dimethylphenyl)-pyrid-4-yl
1783.	6-[2,3-di(trifluoromethyl)phenyl]-pyrid-4-yl
1784.	6-[2,4-di(trifluoromethyl)phenyl]-pyrid-4-yl
1785.	6-[2,5-di(trifluoromethyl)phenyl]-pyrid-4-yl
1786.	6-[2,6-di(trifluoromethyl)phenyl]-pyrid-4-yl
1787.	6-[3,4-di(trifluoromethyl)phenyl]-pyrid-4-yl
1788.	6-[3,5-di(trifluoromethyl)phenyl]-pyrid-4-yl
1789.	6-(2,3-dimethoxyphenyl)-pyrid-4-yl
1790.	6-(2,4-dimethoxyphenyl)-pyrid-4-yl
1791.	6-(2,5-dimethoxyphenyl)-pyrid-4-yl
1792.	6-(2,6-dimethoxyphenyl)-pyrid-4-yl
1793.	6-(3,4-dimethoxyphenyl)-pyrid-4-yl
1794.	6-(3,5-dimethoxyphenyl)-pyrid-4-yl
1795.	6-(o-CN-phenoxy)-pyrid-4-yl
1796.	6-(m-CN-phenoxy)-pyrid-4-yl
1797.	6-(p-CN-phenoxy)-pyrid-4-yl
1798.	6-(o-NO_2-phenoxy)-pyrid-4-yl
1799.	6-(m-NO_2-phenoxy)-pyrid-4-yl
1800.	6-(p-NO_2-phenoxy)-pyrid-4-yl
1801.	6-(o-F-phenoxy)-pyrid-4-yl
1802.	6-(m-F-phenoxy)-pyrid-4-yl

no.	R^3-A-
1803.	6-(p-F-phenoxy)-pyrid-4-yl
1804.	6-(o-Cl-phenoxy)-pyrid-4-yl
1805.	6-(m-Cl-phenoxy)-pyrid-4-yl
1806.	6-(p-Cl-phenoxy)-pyrid-4-yl
1807.	6-(o-Br-phenoxy)-pyrid-4-yl
1808.	6-(m-Br-phenoxy)-pyrid-4-yl
1809.	6-(p-Br-phenoxy)-pyrid-4-yl
1810.	6-(o-CH_3-phenoxy)-pyrid-4-yl
1811.	6-(m-CH_3-phenoxy)-pyrid-4-yl
1812.	6-(p-CH_3-phenoxy)-pyrid-4-yl
1813.	6-(o-CF_3-phenoxy)-pyrid-4-yl
1814.	6-(m-CF_3-phenoxy)-pyrid-4-yl
1815.	6-(p-CF_3-phenoxy)-pyrid-4-yl
1816.	6-(o-CF_3-phenoxy)-pyrid-4-yl
1817.	6-(m-CF_3-phenoxy)-pyrid-4-yl
1818.	6-(p-CF_3-phenoxy)-pyrid-4-yl
1819.	6-(o-OCH_3-phenoxy)-pyrid-4-yl
1820.	6-(m-OCH_3-phenoxy)-pyrid-4-yl
1821.	6-(p-OCH_3-phenoxy)-pyrid-4-yl
1822.	6-(o-OCF_3-phenoxy)-pyrid-4-yl
1823.	6-(m-OCF_3-phenoxy)-pyrid-4-yl
1824.	6-(p-OCF_3-phenoxy)-pyrid-4-yl
1825.	6-(o-$COOCH_3$-phenoxy)-pyrid-4-yl
1826.	6-(m-$COOCH_3$-phenoxy)-pyrid-4-yl
1827.	6-(p-$COOCH_3$-phenoxy)-pyrid-4-yl
1828.	6-[o-$N(CH_3)_2$-phenoxy]-pyrid-4-yl
1829.	6-[m-$N(CH_3)_2$-phenoxy]-pyrid-4-yl
1830.	6-[p-$N(CH_3)_2$-phenoxy]-pyrid-4-yl
1831.	6-(2,3-dicyanophenoxy)-pyrid-4-yl
1832.	6-(2,4-dicyanophenoxy)-pyrid-4-yl
1833.	6-(2,5-dicyanophenoxy)-pyrid-4-yl
1834.	6-(2,6-dicyanophenoxy)-pyrid-4-yl
1835.	6-(3,4-dicyanophenoxy)-pyrid-4-yl
1836.	6-(3,5-dicyanophenoxy)-pyrid-4-yl
1837.	6-(2,3-difluorophenoxy)-pyrid-4-yl
1838.	6-(2,4-difluorophenoxy)-pyrid-4-yl
1839.	6-(2,5-difluorophenoxy)-pyrid-4-yl
1840.	6-(2,6-difluorophenoxy)-pyrid-4-yl
1841.	6-(3,4-difluorophenoxy)-pyrid-4-yl
1842.	6-(3,5-difluorophenoxy)-pyrid-4-yl
1843.	6-(2,3-dichlorophenoxy)-pyrid-4-yl
1844.	6-(2,4-dichlorophenoxy)-pyrid-4-yl
1845.	6-(2,5-dichlorophenoxy)-pyrid-4-yl
1846.	6-(2,6-dichlorophenoxy)-pyrid-4-yl
1847.	6-(3,4-dichlorophenoxy)-pyrid-4-yl
1848.	6-(3,5-dichlorophenoxy)-pyrid-4-yl
1849.	6-(2,3-dibromophenoxy)-pyrid-4-yl
1850.	6-(2,4-dibromophenoxy)-pyrid-4-yl
1851.	6-(2,5-dibromophenoxy)-pyrid-4-yl
1852.	6-(2,6-dibromophenoxy)-pyrid-4-yl
1853.	6-(3,4-dibromophenoxy)-pyrid-4-yl
1854.	6-(3,5-dibromophenoxy)-pyrid-4-yl
1855.	6-(2,3-dimethylphenoxy)-pyrid-4-yl
1856.	6-(2,4-dimethylphenoxy)-pyrid-4-yl
1857.	6-(2,5-dimethylphenoxy)-pyrid-4-yl

no.	R^3-A-
1858.	6-(2,6-dimethylphenoxy)-pyrid-4-yl
1859.	6-(3,4-dimethylphenoxy)-pyrid-4-yl
1860.	6-(3,5-dimethylphenoxy)-pyrid-4-yl
1861.	6-[2,3-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1862.	6-[2,4-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1863.	6-[2,5-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1864.	6-[2,6-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1865.	6-[3,4-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1866.	6-[3,5-di(trifluoromethyl)phenoxy]-pyrid-4-yl
1867.	6-(2,3-dimethoxyphenoxy)-pyrid-4-yl
1868.	6-(2,4-dimethoxyphenoxy)-pyrid-4-yl
1869.	6-(2,5-dimethoxyphenoxy)-pyrid-4-yl
1870.	6-(2,6-dimethoxyphenoxy)-pyrid-4-yl
1871.	6-(3,4-dimethoxyphenoxy)-pyrid-4-yl
1872.	6-(3,5-dimethoxyphenoxy)-pyrid-4-yl
1873.	6-(o-CN-phenyl)-pyridazine-3-yl
1874.	6-(m-CN-phenyl)-pyridazine-3-yl
1875.	6-(p-CN-phenyl)-pyridazine-3-yl
1876.	6-(o-NO_2-phenyl)-pyridazine-3-yl
1877.	6-(m-NO_2-phenyl)-pyridazine-3-yl
1878.	6-(p-NO_2-phenyl)-pyridazine-3-yl
1879.	6-(o-F-phenyl)-pyridazine-3-yl
1880.	6-(m-F-phenyl)-pyridazine-3-yl
1881.	6-(p-F-phenyl)-pyridazine-3-yl
1882.	6-(o-Cl-phenyl)-pyridazine-3-yl

no.	R^3-A-
1883.	6-(m-Cl-phenyl)-pyridazine-3-yl
1884.	6-(p-Cl-phenyl)-pyridazine-3-yl
1885.	6-(o-Br-phenyl)-pyridazine-3-yl
1886.	6-(m-Br-phenyl)-pyridazine-3-yl
1887.	6-(p-Br-phenyl)-pyridazine-3-yl
1888.	6-(o-CH_3-phenyl)-pyridazine-3-yl
1889.	6-(m-CH_3-phenyl)-pyridazine-3-yl
1890.	6-(p-CH_3-phenyl)-pyridazine-3-yl
1891.	6-(o-CF_3-phenyl)-pyridazine-3-yl
1892.	6-(m-CF_3-phenyl)-pyridazine-3-yl
1893.	6-(p-CF_3-phenyl)-pyridazine-3-yl
1894.	6-(o-CF_3-phenyl)-pyridazine-3-yl
1895.	6-(m-CF_3-phenyl)-pyridazine-3-yl
1896.	6-(p-CF_3-phenyl)-pyridazine-3-yl
1897.	6-(o-OCH_3-phenyl)-pyridazine-3-yl
1898.	6-(m-OCH_3-phenyl)-pyridazine-3-yl
1899.	6-(p-OCH_3-phenyl)-pyridazine-3-yl
1900.	6-(o-OCF_3-phenyl)-pyridazine-3-yl
1901.	6-(m-OCF_3-phenyl)-pyridazine-3-yl
1902.	6-(p-OCF_3-phenyl)-pyridazine-3-yl
1903.	6-(o-$COOCH_3$-phenyl)-pyridazine-3-yl
1904.	6-(m-$COOCH_3$-phenyl)-pyridazine-3-yl
1905.	6-(p-$COOCH_3$-phenyl)-pyridazine-3-yl
1906.	6-[o-$N(CH_3)_2$-phenyl]-pyridazine-3-yl
1907.	6-[m-$N(CH_3)_2$-phenyl]-pyridazine-3-yl
1908.	6-[p-$N(CH_3)_2$-phenyl]-pyridazine-3-yl
1909.	6-(2,3-dicyanophenyl)-pyridazine-3-yl

no.	R^3-A-
1910.	6-(2,4-dicyanophenyl)-pyridazine-3-yl
1911.	6-(2,5-dicyanophenyl)-pyridazine-3-yl
1912.	6-(2,6-dicyanophenyl)-pyridazine-3-yl
1913.	6-(3,4-dicyanophenyl)-pyridazine-3-yl
1914.	6-(3,5-dicyanophenyl)-pyridazine-3-yl
1915.	6-(2,3-difluorophenyl)-pyridazine-3-yl
1916.	6-(2,4-difluorophenyl)-pyridazine-3-yl
1917.	6-(2,5-difluorophenyl)-pyridazine-3-yl
1918.	6-(2,6-difluorophenyl)-pyridazine-3-yl
1919.	6-(3,4-difluorophenyl)-pyridazine-3-yl
1920.	6-(3,5-difluorophenyl)-pyridazine-3-yl
1921.	6-(2,3-dichlorophenyl)-pyridazine-3-yl
1922.	6-(2,4-dichlorophenyl)-pyridazine-3-yl
1923.	6-(2,5-dichlorophenyl)-pyridazine-3-yl
1924.	6-(2,6-dichlorophenyl)-pyridazine-3-yl
1925.	6-(3,4-dichlorophenyl)-pyridazine-3-yl
1926.	6-(3,5-dichlorophenyl)-pyridazine-3-yl
1927.	6-(2,3-dibromophenyl)-pyridazine-3-yl
1928.	6-(2,4-dibromophenyl)-pyridazine-3-yl
1929.	6-(2,5-dibromophenyl)-pyridazine-3-yl
1930.	6-(2,6-dibromophenyl)-pyridazine-3-yl
1931.	6-(3,4-dibromophenyl)-pyridazine-3-yl
1932.	6-(3,5-dibromophenyl)-pyridazine-3-yl
1933.	6-(2,3-dimethylphenyl)-pyridazine-3-yl
1934.	6-(2,4-dimethylphenyl)-pyridazine-3-yl
1935.	6-(2,5-dimethylphenyl)-pyridazine-3-yl
1936.	6-(2,6-dimethylphenyl)-pyridazine-3-yl
1937.	6-(3,4-dimethylphenyl)-pyridazine-3-yl
1938.	6-(3,5-dimethylphenyl)-pyridazine-3-yl
1939.	6-[2,3-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1940.	6-[2,4-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1941.	6-[2,5-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1942.	6-[2,6-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1943.	6-[3,4-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1944.	6-[3,5-di(trifluoromethyl)phenyl]-pyridazine-3-yl
1945.	6-(2,3-dimethoxyphenyl)-pyridazine-3-yl
1946.	6-(2,4-dimethoxyphenyl)-pyridazine-3-yl
1947.	6-(2,5-dimethoxyphenyl)-pyridazine-3-yl
1948.	6-(2,6-dimethoxyphenyl)-pyridazine-3-yl
1949.	6-(3,4-dimethoxyphenyl)-pyridazine-3-yl

no.	R^3-A-
1950.	6-(3,5-dimethoxyphenyl)-pyridazine-3-yl
1951.	6-(o-CN-phenoxy)-pyridazine-3-yl
1952.	6-(m-CN-phenoxy)-pyridazine-3-yl
1953.	6-(p-CN-phenoxy)-pyridazine-3-yl
1954.	6-(o-NO_2-phenoxy)-pyridazine-3-yl
1955.	6-(m-NO_2-phenoxy)-pyridazine-3-yl
1956.	6-(p-NO_2-phenoxy)-pyridazine-3-yl
1957.	6-(o-F-phenoxy)-pyridazine-3-yl
1958.	6-(m-F-phenoxy)-pyridazine-3-yl
1959.	6-(p-F-phenoxy)-pyridazine-3-yl
1960.	6-(o-Cl-phenoxy)-pyridazine-3-yl
1961.	6-(m-Cl-phenoxy)-pyridazine-3-yl
1962.	6-(p-Cl-phenoxy)-pyridazine-3-yl
1963.	6-(o-Br-phenoxy)-pyridazine-3-yl
1964.	6-(m-Br-phenoxy)-pyridazine-3-yl
1965.	6-(p-Br-phenoxy)-pyridazine-3-yl
1966.	6-(o-CH_3-phenoxy)-pyridazine-3-yl
1967.	6-(m-CH_3-phenoxy)-pyridazine-3-yl
1968.	6-(p-CH_3-phenoxy)-pyridazine-3-yl
1969.	6-(o-CF_3-phenoxy)-pyridazine-3-yl
1970.	6-(m-CF_3-phenoxy)-pyridazine-3-yl
1971.	6-(p-CF_3-phenoxy)-pyridazine-3-yl
1972.	6-(o-CF_3-phenoxy)-pyridazine-3-yl
1973.	6-(m-CF_3-phenoxy)-pyridazine-3-yl
1974.	6-(p-CF_3-phenoxy)-pyridazine-3-yl

no.	R^3-A-
1975.	6-(o-OCH_3-phenoxy)-pyridazine-3-yl
1976.	6-(m-OCH_3-phenoxy)-pyridazine-3-yl
1977.	6-(p-OCH_3-phenoxy)-pyridazine-3-yl
1978.	6-(o-OCF_3-phenoxy)-pyridazine-3-yl
1979.	6-(m-OCF_3-phenoxy)-pyridazine-3-yl
1980.	6-(p-OCF_3-phenoxy)-pyridazine-3-yl
1981.	6-(o-$COOCH_3$-phenoxy)-pyridazine-3-yl
1982.	6-(m-$COOCH_3$-phenoxy)-pyridazine-3-yl
1983.	6-(p-$COOCH_3$-phenoxy)-pyridazine-3-yl
1984.	6-[o-$N(CH_3)_2$-phenoxy]-pyridazine-3-yl
1985.	6-[m-$N(CH_3)_2$-phenoxy]-pyridazine-3-yl
1986.	6-[p-$N(CH_3)_2$-phenoxy]-pyridazine-3-yl
1987.	6-(2,3-dicyanophenoxy)-pyridazine-3-yl
1988.	6-(2,4-dicyanophenoxy)-pyridazine-3-yl
1989.	6-(2,5-dicyanophenoxy)-pyridazine-3-yl
1990.	6-(2,6-dicyanophenoxy)-pyridazine-3-yl
1991.	6-(3,4-dicyanophenoxy)-pyridazine-3-yl
1992.	6-(3,5-dicyanophenoxy)-pyridazine-3-yl
1993.	6-(2,3-difluorophenoxy)-pyridazine-3-yl
1994.	6-(2,4-difluorophenoxy)-pyridazine-3-yl

no.	R^3-A-
1995.	6-(2,5-difluorophenoxy)-pyridazine-3-yl
1996.	6-(2,6-difluorophenoxy)-pyridazine-3-yl
1997.	6-(3,4-difluorophenoxy)-pyridazine-3-yl
1998.	6-(3,5-difluorophenoxy)-pyridazine-3-yl
1999.	6-(2,3-dichlorophenoxy)-pyridazine-3-yl
2000.	6-(2,4-dichlorophenoxy)-pyridazine-3-yl
2001.	6-(2,5-dichlorophenoxy)-pyridazine-3-yl
2002.	6-(2,6-dichlorophenoxy)-pyridazine-3-yl
2003.	6-(3,4-dichlorophenoxy)-pyridazine-3-yl
2004.	6-(3,5-dichlorophenoxy)-pyridazine-3-yl
2005.	6-(2,3-dibromophenoxy)-pyridazine-3-yl
2006.	6-(2,4-dibromophenoxy)-pyridazine-3-yl
2007.	6-(2,5-dibromophenoxy)-pyridazine-3-yl
2008.	6-(2,6-dibromophenoxy)-pyridazine-3-yl
2009.	6-(3,4-dibromophenoxy)-pyridazine-3-yl
2010.	6-(3,5-dibromophenoxy)-pyridazine-3-yl
2011.	6-(2,3-dimethylphenoxy)-pyridazine-3-yl
2012.	6-(2,4-dimethylphenoxy)-pyridazine-3-yl
2013.	6-(2,5-dimethylphenoxy)-pyridazine-3-yl
2014.	6-(2,6-dimethylphenoxy)-pyridazine-3-yl
2015.	6-(3,4-dimethylphenoxy)-pyridazine-3-yl
2016.	6-(3,5-dimethylphenoxy)-pyridazine-3-yl
2017.	6-[2,3-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2018.	6-[2,4-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2019.	6-[2,5-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2020.	6-[2,6-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2021.	6-[3,4-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2022.	6-[3,5-di(trifluoromethyl)phenoxy]-pyridazine-3-yl
2023.	6-(2,3-dimethoxyphenoxy)-pyridazine-3-yl
2024.	6-(2,4-dimethoxyphenoxy)-pyridazine-3-yl
2025.	6-(2,5-dimethoxyphenoxy)-pyridazine-3-yl
2026.	6-(2,6-dimethoxyphenoxy)-pyridazine-3-yl
2027.	6-(3,4-dimethoxyphenoxy)-pyridazine-3-yl
2028.	6-(3,5-dimethoxyphenoxy)-pyridazine-3-yl
2029.	4-(o-CN-phenyl)-oxazol-2-yl
2030.	4-(m-CN-phenyl)-oxazol-2-yl
2031.	4-(p-CN-phenyl)-oxazol-2-yl
2032.	4-(o-NO_2-phenyl)-oxazol-2-yl
2033.	4-(m-NO_2-phenyl)-oxazol-2-yl
2034.	4-(p-NO_2-phenyl)-oxazol-2-yl
2035.	4-(o-F-phenyl)-oxazol-2-yl
2036.	4-(m-F-phenyl)-oxazol-2-yl
2037.	4-(p-F-phenyl)-oxazol-2-yl
2038.	4-(o-Cl-phenyl)-oxazol-2-yl
2039.	4-(m-Cl-phenyl)-oxazol-2-yl
2040.	4-(p-Cl-phenyl)-oxazol-2-yl

no.	R^3-A-
2041.	4-(o-Br-phenyl)-oxazol-2-yl
2042.	4-(m-Br-phenyl)-oxazol-2-yl
2043.	4-(p-Br-phenyl)-oxazol-2-yl
2044.	4-(o-CH_3-phenyl)-oxazol-2-yl
2045.	4-(m-CH_3-phenyl)-oxazol-2-yl
2046.	4-(p-CH_3-phenyl)-oxazol-2-yl
2047.	4-(o-CF_3-phenyl)-oxazol-2-yl
2048.	4-(m-CF_3-phenyl)-oxazol-2-yl
2049.	4-(p-CF_3-phenyl)-oxazol-2-yl
2050.	4-(o-CF_3-phenyl)-oxazol-2-yl
2051.	4-(m-CF_3-phenyl)-oxazol-2-yl
2052.	4-(p-CF_3-phenyl)-oxazol-2-yl
2053.	4-(o-OCH_3-phenyl)-oxazol-2-yl
2054.	4-(m-OCH_3-phenyl)-oxazol-2-yl
2055.	4-(p-OCH_3-phenyl)-oxazol-2-yl
2056.	4-(o-OCF_3-phenyl)-oxazol-2-yl
2057.	4-(m-OCF_3-phenyl)-oxazol-2-yl
2058.	4-(p-OCF_3-phenyl)-oxazol-2-yl
2059.	4-(o-$COOCH_3$-phenyl)-oxazol-2-yl
2060.	4-(m-$COOCH_3$-phenyl)-oxazol-2-yl
2061.	4-(p-$COOCH_3$-phenyl)-oxazol-2-yl
2062.	4-[o-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2063.	4-[m-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2064.	4-[p-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2065.	4-(2,3-dicyanophenyl)-oxazol-2-yl
2066.	4-(2,4-dicyanophenyl)-oxazol-2-yl
2067.	4-(2,5-dicyanophenyl)-oxazol-2-yl
2068.	4-(2,6-dicyanophenyl)-oxazol-2-yl
2069.	4-(3,4-dicyanophenyl)-oxazol-2-yl
2070.	4-(3,5-dicyanophenyl)-oxazol-2-yl
2071.	4-(2,3-difluorophenyl)-oxazol-2-yl
2072.	4-(2,4-difluorophenyl)-oxazol-2-yl
2073.	4-(2,5-difluorophenyl)-oxazol-2-yl
2074.	4-(2,6-difluorophenyl)-oxazol-2-yl
2075.	4-(3,4-difluorophenyl)-oxazol-2-yl
2076.	4-(3,5-difluorophenyl)-oxazol-2-yl

no.	R^3-A-
2077.	4-(2,3-dichlorophenyl)-oxazol-2-yl
2078.	4-(2,4-dichlorophenyl)-oxazol-2-yl
2079.	4-(2,5-dichlorophenyl)-oxazol-2-yl
2080.	4-(2,6-dichlorophenyl)-oxazol-2-yl
2081.	4-(3,4-dichlorophenyl)-oxazol-2-yl
2082.	4-(3,5-dichlorophenyl)-oxazol-2-yl
2083.	4-(2,3-dibromophenyl)-oxazol-2-yl
2084.	4-(2,4-dibromophenyl)-oxazol-2-yl
2085.	4-(2,5-dibromophenyl)-oxazol-2-yl
2086.	4-(2,6-dibromophenyl)-oxazol-2-yl
2087.	4-(3,4-dibromophenyl)-oxazol-2-yl
2088.	4-(3,5-dibromophenyl)-oxazol-2-yl
2089.	4-(2,3-dimethylphenyl)-oxazol-2-yl
2090.	4-(2,4-dimethylphenyl)-oxazol-2-yl
2091.	4-(2,5-dimethylphenyl)-oxazol-2-yl
2092.	4-(2,6-dimethylphenyl)-oxazol-2-yl
2093.	4-(3,4-dimethylphenyl)-oxazol-2-yl
2094.	4-(3,5-dimethylphenyl)-oxazol-2-yl
2095.	4-[2,3-di(trifluoromethyl)phenyl]-oxazol-2-yl
2096.	4-[2,4-di(trifluoromethyl)phenyl]-oxazol-2-yl
2097.	4-[2,5-di(trifluoromethyl)phenyl]-oxazol-2-yl
2098.	4-[2,6-di(trifluoromethyl)phenyl]-oxazol-2-yl
2099.	4-[3,4-di(trifluoromethyl)phenyl]-oxazol-2-yl

no.	R^3-A-
2100.	4-[3,5-di(trifluoromethyl)phenyl]-oxazol-2-yl
2101.	4-(2,3-dimethoxyphenyl)-oxazol-2-yl
2102.	4-(2,4-dimethoxyphenyl)-oxazol-2-yl
2103.	4-(2,5-dimethoxyphenyl)-oxazol-2-yl
2104.	4-(2,6-dimethoxyphenyl)-oxazol-2-yl
2105.	4-(3,4-dimethoxyphenyl)-oxazol-2-yl
2106.	4-(3,5-dimethoxyphenyl)-oxazol-2-yl
2107.	4-(o-CN-phenoxy)-oxazol-2-yl
2108.	4-(m-CN-phenoxy)-oxazol-2-yl
2109.	4-(p-CN-phenoxy)-oxazol-2-yl
2110.	4-(o-NO_2-phenoxy)-oxazol-2-yl
2111.	4-(m-NO_2-phenoxy)-oxazol-2-yl
2112.	4-(p-NO_2-phenoxy)-oxazol-2-yl
2113.	4-(o-F-phenoxy)-oxazol-2-yl
2114.	4-(m-F-phenoxy)-oxazol-2-yl
2115.	4-(p-F-phenoxy)-oxazol-2-yl
2116.	4-(o-Cl-phenoxy)-oxazol-2-yl
2117.	4-(m-Cl-phenoxy)-oxazol-2-yl
2118.	4-(p-Cl-phenoxy)-oxazol-2-yl
2119.	4-(o-Br-phenoxy)-oxazol-2-yl
2120.	4-(m-Br-phenoxy)-oxazol-2-yl
2121.	4-(p-Br-phenoxy)-oxazol-2-yl
2122.	4-(o-CH_3-phenoxy)-oxazol-2-yl
2123.	4-(m-CH_3-phenoxy)-oxazol-2-yl
2124.	4-(p-CH_3-phenoxy)-oxazol-2-yl
2125.	4-(o-CF_3-phenoxy)-oxazol-2-yl
2126.	4-(m-CF_3-phenoxy)-oxazol-2-yl
2127.	4-(p-CF_3-phenoxy)-oxazol-2-yl
2128.	4-(o-CF_3-phenoxy)-oxazol-2-yl
2129.	4-(m-CF_3-phenoxy)-oxazol-2-yl
2130.	4-(p-CF_3-phenoxy)-oxazol-2-yl
2131.	4-(o-OCH_3-phenoxy)-oxazol-2-yl
2132.	4-(m-OCH_3-phenoxy)-oxazol-2-yl
2133.	4-(p-OCH_3-phenoxy)-oxazol-2-yl
2134.	4-(o-OCF_3-phenoxy)-oxazol-2-yl
2135.	4-(m-OCF_3-phenoxy)-oxazol-2-yl
2136.	4-(p-OCF_3-phenoxy)-oxazol-2-yl
2137.	4-(o-$COOCH_3$-phenoxy)-oxazol-2-yl
2138.	4-(m-$COOCH_3$-phenoxy)-oxazol-2-yl
2139.	4-(p-$COOCH_3$-phenoxy)-oxazol-2-yl
2140.	4-[o-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2141.	4-[m-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2142.	4-[p-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2143.	4-(2,3-dicyanophenoxy)-oxazol-2-yl
2144.	4-(2,4-dicyanophenoxy)-oxazol-2-yl
2145.	4-(2,5-dicyanophenoxy)-oxazol-2-yl
2146.	4-(2,6-dicyanophenoxy)-oxazol-2-yl
2147.	4-(3,4-dicyanophenoxy)-oxazol-2-yl
2148.	4-(3,5-dicyanophenoxy)-oxazol-2-yl
2149.	4-(2,3-difluorophenoxy)-oxazol-2-yl
2150.	4-(2,4-difluorophenoxy)-oxazol-2-yl
2151.	4-(2,5-difluorophenoxy)-oxazol-2-yl
2152.	4-(2,6-difluorophenoxy)-oxazol-2-yl
2153.	4-(3,4-difluorophenoxy)-oxazol-2-yl

no.	R^3-A-
2154.	4-(3,5-difluorophenoxy)-oxazol-2-yl
2155.	4-(2,3-dichlorophenoxy)-oxazol-2-yl
2156.	4-(2,4-dichlorophenoxy)-oxazol-2-yl
2157.	4-(2,5-dichlorophenoxy)-oxazol-2-yl
2158.	4-(2,6-dichlorophenoxy)-oxazol-2-yl
2159.	4-(3,4-dichlorophenoxy)-oxazol-2-yl
2160.	4-(3,5-dichlorophenoxy)-oxazol-2-yl
2161.	4-(2,3-dibromophenoxy)-oxazol-2-yl
2162.	4-(2,4-dibromophenoxy)-oxazol-2-yl
2163.	4-(2,5-dibromophenoxy)-oxazol-2-yl
2164.	4-(2,6-dibromophenoxy)-oxazol-2-yl
2165.	4-(3,4-dibromophenoxy)-oxazol-2-yl
2166.	4-(3,5-dibromophenoxy)-oxazol-2-yl
2167.	4-(2,3-dimethylphenoxy)-oxazol-2-yl
2168.	4-(2,4-dimethylphenoxy)-oxazol-2-yl
2169.	4-(2,5-dimethylphenoxy)-oxazol-2-yl
2170.	4-(2,6-dimethylphenoxy)-oxazol-2-yl
2171.	4-(3,4-dimethylphenoxy)-oxazol-2-yl
2172.	4-(3,5-dimethylphenoxy)-oxazol-2-yl
2173.	4-[2,3-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2174.	4-[2,4-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2175.	4-[2,5-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2176.	4-[2,6-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2177.	4-[3,4-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2178.	4-[3,5-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2179.	4-(2,3-dimethoxyphenoxy)-oxazol-2-yl
2180.	4-(2,4-dimethoxyphenoxy)-oxazol-2-yl
2181.	4-(2,5-dimethoxyphenoxy)-oxazol-2-yl
2182.	4-(2,6-dimethoxyphenoxy)-oxazol-2-yl
2183.	4-(3,4-dimethoxyphenoxy)-oxazol-2-yl
2184.	4-(3,5-dimethoxyphenoxy)-oxazol-2-yl
2185.	4-(o-CN-phenyl)-thiazol-2-yl
2186.	4-(m-CN-phenyl)-thiazol-2-yl
2187.	4-(p-CN-phenyl)-thiazol-2-yl
2188.	4-(o-NO_2-phenyl)-thiazol-2-yl
2189.	4-(m-NO_2-phenyl)-thiazol-2-yl
2190.	4-(p-NO_2-phenyl)-thiazol-2-yl
2191.	4-(o-F-phenyl)-thiazol-2-yl
2192.	4-(m-F-phenyl)-thiazol-2-yl
2193.	4-(p-F-phenyl)-thiazol-2-yl
2194.	4-(o-Cl-phenyl)-thiazol-2-yl
2195.	4-(m-Cl-phenyl)-thiazol-2-yl
2196.	4-(p-Cl-phenyl)-thiazol-2-yl
2197.	4-(o-Br-phenyl)-thiazol-2-yl
2198.	4-(m-Br-phenyl)-thiazol-2-yl

no.	R^3-A-
2199.	4-(p-Br-phenyl)-thiazol-2-yl
2200.	4-(o-CH_3-phenyl)-thiazol-2-yl
2201.	4-(m-CH_3-phenyl)-thiazol-2-yl
2202.	4-(p-CH_3-phenyl)-thiazol-2-yl
2203.	4-(o-CF_3-phenyl)-thiazol-2-yl
2204.	4-(m-CF_3-phenyl)-thiazol-2-yl
2205.	4-(p-CF_3-phenyl)-thiazol-2-yl
2206.	4-(o-CF_3-phenyl)-thiazol-2-yl
2207.	4-(m-CF_3-phenyl)-thiazol-2-yl
2208.	4-(p-CF_3-phenyl)-thiazol-2-yl
2209.	4-(o-OCH_3-phenyl)-thiazol-2-yl
2210.	4-(m-OCH_3-phenyl)-thiazol-2-yl
2211.	4-(p-OCH_3-phenyl)-thiazol-2-yl
2212.	4-(o-OCF_3-phenyl)-thiazol-2-yl
2213.	4-(m-OCF_3-phenyl)-thiazol-2-yl
2214.	4-(p-OCF_3-phenyl)-thiazol-2-yl
2215.	4-(o-$COOCH_3$-phenyl)-thiazol-2-yl
2216.	4-(m-$COOCH_3$-phenyl)-thiazol-2-yl
2217.	4-(p-$COOCH_3$-phenyl)-thiazol-2-yl
2218.	4-[o-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2219.	4-[m-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2220.	4-[p-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2221.	4-(2,3-dicyanophenyl)-thiazol-2-yl
2222.	4-(2,4-dicyanophenyl)-thiazol-2-yl
2223.	4-(2,5-dicyanophenyl)-thiazol-2-yl
2224.	4-(2,6-dicyanophenyl)-thiazol-2-yl
2225.	4-(3,4-dicyanophenyl)-thiazol-2-yl
2226.	4-(3,5-dicyanophenyl)-thiazol-2-yl
2227.	4-(2,3-difluorophenyl)-thiazol-2-yl
2228.	4-(2,4-difluorophenyl)-thiazol-2-yl
2229.	4-(2,5-difluorophenyl)-thiazol-2-yl
2230.	4-(2,6-difluorophenyl)-thiazol-2-yl
2231.	4-(3,4-difluorophenyl)-thiazol-2-yl
2232.	4-(3,5-difluorophenyl)-thiazol-2-yl
2233.	4-(2,3-dichlorophenyl)-thiazol-2-yl
2234.	4-(2,4-dichlorophenyl)-thiazol-2-yl
2235.	4-(2,5-dichlorophenyl)-thiazol-2-yl
2236.	4-(2,6-dichlorophenyl)-thiazol-2-yl
2237.	4-(3,4-dichlorophenyl)-thiazol-2-yl
2238.	4-(3,5-dichlorophenyl)-thiazol-2-yl
2239.	4-(2,3-dibromophenyl)-thiazol-2-yl
2240.	4-(2,4-dibromophenyl)-thiazol-2-yl
2241.	4-(2,5-dibromophenyl)-thiazol-2-yl
2242.	4-(2,6-dibromophenyl)-thiazol-2-yl
2243.	4-(3,4-dibromophenyl)-thiazol-2-yl
2244.	4-(3,5-dibromophenyl)-thiazol-2-yl
2245.	4-(2,3-dimethylphenyl)-thiazol-2-yl
2246.	4-(2,4-dimethylphenyl)-thiazol-2-yl
2247.	4-(2,5-dimethylphenyl)-thiazol-2-yl
2248.	4-(2,6-dimethylphenyl)-thiazol-2-yl
2249.	4-(3,4-dimethylphenyl)-thiazol-2-yl
2250.	4-(3,5-dimethylphenyl)-thiazol-2-yl
2251.	4-[2,3-di(trifluoromethyl)phenyl]-thiazol-2-yl
2252.	4-[2,4-di(trifluoromethyl)phenyl]-thiazol-2-yl
2253.	4-[2,5-di(trifluoromethyl)phenyl]-thiazol-2-yl
2254.	4-[2,6-di(trifluoromethyl)phenyl]-thiazol-2-yl
2255.	4-[3,4-di(trifluoromethyl)phenyl]-thiazol-2-yl
2256.	4-[3,5-di(trifluoromethyl)phenyl]-thiazol-2-yl

no.	R^3-A-
2257.	4-(2,3-dimethoxyphenyl)-thiazol-2-yl
2258.	4-(2,4-dimethoxyphenyl)-thiazol-2-yl
2259.	4-(2,5-dimethoxyphenyl)-thiazol-2-yl
2260.	4-(2,6-dimethoxyphenyl)-thiazol-2-yl
2261.	4-(3,4-dimethoxyphenyl)-thiazol-2-yl
2262.	4-(3.5-dimethoxyphenyl)-thiazol-2-yl
2263.	4-(o-CN-phenoxy)-thiazol-2-yl
2264.	4-(m-CN-phenoxy)-thiazol-2-yl
2265.	4-(p-CN-phenoxy)-thiazol-2-yl
2266.	4-(o-NO_2-phenoxy)-thiazol-2-yl
2267.	4-(m-NO_2-phenoxy)-thiazol-2-yl
2268.	4-(p-NO_2-phenoxy)-thiazol-2-yl
2269.	4-(o-F-phenoxy)-thiazol-2-yl
2270.	4-(m-F-phenoxy)-thiazol-2-yl
2271.	4-(p-F-phenoxy)-thiazol-2-yl
2272.	4-(o-Cl-phenoxy)-thiazol-2-yl
2273.	4-(m-Cl-phenoxy)-thiazol-2-yl
2274.	4-(p-Cl-phenoxy)-thiazol-2-yl
2275.	4-(o-Br-phenoxy)-thiazol-2-yl
2276.	4-(m-Br-phenoxy)-thiazol-2-yl
2277.	4-(p-Br-phenoxy)-thiazol-2-yl
2278.	4-(o-CH_3-phenoxy)-thiazol-2-yl
2279.	4-(m-CH_3-phenoxy)-thiazol-2-yl
2280.	4-(p-CH_3-phenoxy)-thiazol-2-yl
2281.	4-(o-CF_3-phenoxy)-thiazol-2-yl
2282.	4-(m-CF_3-phenoxy)-thiazol-2-yl
2283.	4-(p-CF_3-phenoxy)-thiazol-2-yl
2284.	4-(o-CF_3-phenoxy)-thiazol-2-yl
2285.	4-(m-CF_3-phenoxy)-thiazol-2-yl
2286.	4-(p-CF_3-phenoxy)-thiazol-2-yl
2287.	4-(o-OCH_3-phenoxy)-thiazol-2-yl
2288.	4-(m-OCH_3-phenoxy)-thiazol-2-yl
2289.	4-(p-OCH_3-phenoxy)-thiazol-2-yl

no.	R^3-A-
2290.	4-(o-OCF_3-phenoxy)-thiazol-2-yl
2291.	4-(m-OCF_3-phenoxy)-thiazol-2-yl
2292.	4-(p-OCF_3-phenoxy)-thiazol-2-yl
2293.	4-(o-$COOCH_3$-phenoxy)-thiazol-2-yl
2294.	4-(m-$COOCH_3$-phenoxy)-thiazol-2-yl
2295.	4-(p-$COOCH_3$-phenoxy)-thiazol-2-yl
2296.	4-[o-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2297.	4-[m-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2298.	4-[p-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2299.	4-(2,3-dicyanophenoxy)-thiazol-2-yl
2300.	4-(2,4-dicyanophenoxy)-thiazol-2-yl
2301.	4-(2,5-dicyanophenoxy)-thiazol-2-yl
2302.	4-(2,6-dicyanophenoxy)-thiazol-2-yl
2303.	4-(3,4-dicyanophenoxy)-thiazol-2-yl
2304.	4-(3,5-dicyanophenoxy)-thiazol-2-yl
2305.	4-(2,3-difluorophenoxy)-thiazol-2-yl
2306.	4-(2,4-difluorophenoxy)-thiazol-2-yl
2307.	4-(2,5-difluorophenoxy)-thiazol-2-yl
2308.	4-(2,6-difluorophenoxy)-thiazol-2-yl
2309.	4-(3,4-difluorophenoxy)-thiazol-2-yl
2310.	4-(3,5-difluorophenoxy)-thiazol-2-yl

no.	R^3-A-
2311.	4-(2,3-dichlorophenoxy)-thiazol-2-yl
2312.	4-(2,4-dichlorophenoxy)-thiazol-2-yl
2313.	4-(2,5-dichlorophenoxy)-thiazol-2-yl
2314.	4-(2,6-dichlorophenoxy)-thiazol-2-yl
2315.	4-(3,4-dichlorophenoxy)-thiazol-2-yl
2316.	4-(3,5-dichlorophenoxy)-thiazol-2-yl
2317.	4-(2,3-dibromophenoxy)-thiazol-2-yl
2318.	4-(2,4-dibromophenoxy)-thiazol-2-yl
2319.	4-(2,5-dibromophenoxy)-thiazol-2-yl
2320.	4-(2,6-dibromophenoxy)-thiazol-2-yl
2321.	4-(3,4-dibromophenoxy)-thiazol-2-yl
2322.	4-(3,5-dibromophenoxy)-thiazol-2-yl
2323.	4-(2,3-dimethylphenoxy)-thiazol-2-yl
2324.	4-(2,4-dimethylphenoxy)-thiazol-2-yl
2325.	4-(2,5-dimethylphenoxy)-thiazol-2-yl
2326.	4-(2,6-dimethylphenoxy)-thiazol-2-yl
2327.	4-(3,4-dimethylphenoxy)-thiazol-2-yl
2328.	4-(3,5-dimethylphenoxy)-thiazol-2-yl
2329.	4-[2,3-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2330.	4-[2,4-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2331.	4-[2,5-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2332.	4-[2,6-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2333.	4-[3,4-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2334.	4-[3,5-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2335.	4-(2,3-dimethoxyphenoxy)-thiazol-2-yl
2336.	4-(2,4-dimethoxyphenoxy)-thiazol-2-yl
2337.	4-(2,5-dimethoxyphenoxy)-thiazol-2-yl
2338.	4-(2,6-dimethoxyphenoxy)-thiazol-2-yl
2339.	4-(3,4-dimethoxyphenoxy)-thiazol-2-yl
2340.	4-(3,5-dimethoxyphenoxy)-thiazol-2-yl
2341.	5-(o-CN-phenyl)-oxazol-2-yl
2342.	5-(m-CN-phenyl)-oxazol-2-yl
2343.	5-(p-CN-phenyl)-oxazol-2-yl
2344.	5-(o-NO_2-phenyl)-oxazol-2-yl
2345.	5-(m-NO_2-phenyl)-oxazol-2-yl
2346.	5-(p-NO_2-phenyl)-oxazol-2-yl
2347.	5-(o-F-phenyl)-oxazol-2-yl
2348.	5-(m-F-phenyl)-oxazol-2-yl
2349.	5-(p-F-phenyl)-oxazol-2-yl
2350.	5-(o-Cl-phenyl)-oxazol-2-yl
2351.	5-(m-Cl-phenyl)-oxazol-2-yl
2352.	5-(p-Cl-phenyl)-oxazol-2-yl
2353.	5-(o-Br-phenyl)-oxazol-2-yl
2354.	5-(m-Br-phenyl)-oxazol-2-yl
2355.	5-(p-Br-phenyl)-oxazol-2-yl
2356.	5-(o-CH_3-phenyl)-oxazol-2-yl
2357.	5-(m-CH_3-phenyl)-oxazol-2-yl
2358.	5-(p-CH_3-phenyl)-oxazol-2-yl
2359.	5-(o-CF_3-phenyl)-oxazol-2-yl

no.	R^3-A-
2360.	5-(m-CF_3-phenyl)-oxazol-2-yl
2361.	5-(p-CF_3-phenyl)-oxazol-2-yl
2362.	5-(o-CF_3-phenyl)-oxazol-2-yl
2363.	5-(m-CF_3-phenyl)-oxazol-2-yl
2364.	5-(p-CF_3-phenyl)-oxazol-2-yl
2365.	5-(o-OCH_3-phenyl)-oxazol-2-yl
2366.	5-(m-OCH_3-phenyl)-oxazol-2-yl
2367.	5-(p-OCH_3-phenyl)-oxazol-2-yl
2368.	5-(o-OCF_3-phenyl)-oxazol-2-yl
2369.	5-(m-OCF_3-phenyl)-oxazol-2-yl
2370.	5-(p-OCF_3-phenyl)-oxazol-2-yl
2371.	5-(o-$COOCH_3$-phenyl)-oxazol-2-yl
2372.	5-(m-$COOCH_3$-phenyl)-oxazol-2-yl
2373.	5-(p-$COOCH_3$-phenyl)-oxazol-2-yl
2374.	5-[o-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2375.	5-[m-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2376.	5-[p-$N(CH_3)_2$-phenyl]-oxazol-2-yl
2377.	5-(2,3-dicyanophenyl)-oxazol-2-yl
2378.	5-(2,4-dicyanophenyl)-oxazol-2-yl
2379.	5-(2,5-dicyanophenyl)-oxazol-2-yl
2380.	5-(2,6-dicyanophenyl)-oxazol-2-yl
2381.	5-(3,4-dicyanophenyl)-oxazol-2-yl
2382.	5-(3,5-dicyanophenyl)-oxazol-2-yl
2383.	5-(2,3-difluorophenyl)-oxazol-2-yl
2384.	5-(2,4-difluorophenyl)-oxazol-2-yl
2385.	5-(2,5-difluorophenyl)-oxazol-2-yl
2386.	5-(2,6-difluorophenyl)-oxazol-2-yl
2387.	5-(3,4-difluorophenyl)-oxazol-2-yl
2388.	5-(3,5-difluorophenyl)-oxazol-2-yl
2389.	5-(2,3-dichlorophenyl)-oxazol-2-yl
2390.	5-(2,4-dichlorophenyl)-oxazol-2-yl
2391.	5-(2,5-dichlorophenyl)-oxazol-2-yl
2392.	5-(2,6-dichlorophenyl)-oxazol-2-yl
2393.	5-(3,4-dichlorophenyl)-oxazol-2-yl
2394.	5-(3,5-dichlorophenyl)-oxazol-2-yl

no.	R^3-A-
2395.	5-(2,3-dibromophenyl)-oxazol-2-yl
2396.	5-(2,4-dibromophenyl)-oxazol-2-yl
2397.	5-(2,5-dibromophenyl)-oxazol-2-yl
2398.	5-(2,6-dibromophenyl)-oxazol-2-yl
2399.	5-(3,4-dibromophenyl)-oxazol-2-yl
2400.	5-(3,5-dibromophenyl)-oxazol-2-yl
2401.	5-(2,3-dimethylphenyl)-oxazol-2-yl
2402.	5-(2,4-dimethylphenyl)-oxazol-2-yl
2403.	5-(2,5-dimethylphenyl)-oxazol-2-yl
2404.	5-(2,6-dimethylphenyl)-oxazol-2-yl
2405.	5-(3,4-dimethylphenyl)-oxazol-2-yl
2406.	5-(3,5-dimethylphenyl)-oxazol-2-yl
2407.	5-[2,3-di(trifluoromethyl)phenyl]-oxazol-2-yl
2408.	5-[2,4-di(trifluoromethyl)phenyl]-oxazol-2-yl
2409.	5-[2,5-di(trifluoromethyl)phenyl]-oxazol-2-yl
2410.	5-[2,6-di(trifluoromethyl)phenyl]-oxazol-2-yl
2411.	5-[3,4-di(trifluoromethyl)phenyl]-oxazol-2-yl
2412.	5-[3,5-di(trifluoromethyl)phenyl]-oxazol-2-yl
2413.	5-(2,3-dimethoxyphenyl)-oxazol-2-yl
2414.	5-(2,4-dimethoxyphenyl)-oxazol-2-yl

no.	R^3-A-
2415.	5-(2,5-dimethoxyphenyl)-oxazol-2-yl
2416.	5-(2,6-dimethoxyphenyl)-oxazol-2-yl
2417.	5-(3,4-dimethoxyphenyl)-oxazol-2-yl
2418.	5-(3,5-dimethoxyphenyl)-oxazol-2-yl
2419.	5-(o-CN-phenoxy)-oxazol-2-yl
2420.	5-(m-CN-phenoxy)-oxazol-2-yl
2421.	5-(p-CN-phenoxy)-oxazol-2-yl
2422.	5-(o-NO_2-phenoxy)-oxazol-2-yl
2423.	5-(m-NO_2-phenoxy)-oxazol-2-yl
2424.	5-(p-NO_2-phenoxy)-oxazol-2-yl
2425.	5-(o-F-phenoxy)-oxazol-2-yl
2426.	5-(m-F-phenoxy)-oxazol-2-yl
2427.	5-(p-F-phenoxy)-oxazol-2-yl
2428.	5-(o-Cl-phenoxy)-oxazol-2-yl
2429.	5-(m-Cl-phenoxy)-oxazol-2-yl
2430.	5-(p-Cl-phenoxy)-oxazol-2-yl
2431.	5-(o-Br-phenoxy)-oxazol-2-yl
2432.	5-(m-Br-phenoxy)-oxazol-2-yl
2433.	5-(p-Br-phenoxy)-oxazol-2-yl
2434.	5-(o-CH_3-phenoxy)-oxazol-2-yl
2435.	5-(m-CH_3-phenoxy)-oxazol-2-yl
2436.	5-(p-CH_3-phenoxy)-oxazol-2-yl
2437.	5-(o-CF_3-phenoxy)-oxazol-2-yl
2438.	5-(m-CF_3-phenoxy)-oxazol-2-yl
2439.	5-(p-CF_3-phenoxy)-oxazol-2-yl
2440.	5-(o-CF_3-phenoxy)-oxazol-2-yl
2441.	5-(m-CF_3-phenoxy)-oxazol-2-yl
2442.	5-(p-CF_3-phenoxy)-oxazol-2-yl
2443.	5-(o-OCH_3-phenoxy)-oxazol-2-yl
2444.	5-(m-OCH_3-phenoxy)-oxazol-2-yl
2445.	5-(p-OCH_3-phenoxy)-oxazol-2-yl
2446.	5-(o-OCF_3-phenoxy)-oxazol-2-yl
2447.	5-(m-OCF_3-phenoxy)-oxazol-2-yl
2448.	5-(p-OCF_3-phenoxy)-oxazol-2-yl

no.	R^3-A-
2449.	5-(o-$COOCH_3$-phenoxy)-oxazol-2-yl
2450.	5-(m-$COOCH_3$-phenoxy)-oxazol-2-yl
2451.	5-(p-$COOCH_3$-phenoxy)-oxazol-2-yl
2452.	5-[o-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2453.	5-[m-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2454.	5-[p-$N(CH_3)_2$-phenoxy]-oxazol-2-yl
2455.	5-(2,3-dicyanophenoxy)-oxazol-2-yl
2456.	5-(2,4-dicyanophenoxy)-oxazol-2-yl
2457.	5-(2,5-dicyanophenoxy)-oxazol-2-yl
2458.	5-(2,6-dicyanophenoxy)-oxazol-2-yl
2459.	5-(3,4-dicyanophenoxy)-oxazol-2-yl
2460.	5-(3,5-dicyanophenoxy)-oxazol-2-yl
2461.	5-(2,3-difluorophenoxy)-oxazol-2-yl
2462.	5-(2,4-difluorophenoxy)-oxazol-2-yl
2463.	5-(2,5-difluorophenoxy)-oxazol-2-yl
2464.	5-(2,6-difluorophenoxy)-oxazol-2-yl
2465.	5-(3,4-difluorophenoxy)-oxazol-2-yl
2466.	5-(3,5-difluorophenoxy)-oxazol-2-yl
2467.	5-(2,3-dichlorophenoxy)-oxazol-2-yl
2468.	5-(2,4-dichlorophenoxy)-oxazol-2-yl

no.	R^3-A-
2469.	5-(2,5-dichlorophenoxy)-oxazol-2-yl
2470.	5-(2,6-dichlorophenoxy)-oxazol-2-yl
2471.	5-(3,4-dichlorophenoxy)-oxazol-2-yl
2472.	5-(3,5-dichlorophenoxy)-oxazol-2-yl
2473.	5-(2,3-dibromophenoxy)-oxazol-2-yl
2474.	5-(2,4-dibromophenoxy)-oxazol-2-yl
2475.	5-(2,5-dibromophenoxy)-oxazol-2-yl
2476.	5-(2,6-dibromophenoxy)-oxazol-2-yl
2477.	5-(3,4-dibromophenoxy)-oxazol-2-yl
2478.	5-(3,5-dibromophenoxy)-oxazol-2-yl
2479.	5-(2,3-dimethylphenoxy)-oxazol-2-yl
2480.	5-(2,4-dimethylphenoxy)-oxazol-2-yl
2481.	5-(2,5-dimethylphenoxy)-oxazol-2-yl
2482.	5-(2,6-dimethylphenoxy)-oxazol-2-yl
2483.	5-(3,4-dimethylphenoxy)-oxazol-2-yl
2484.	5-(3,5-dimethylphenoxy)-oxazol-2-yl
2485.	5-[2,3-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2486.	5-[2,4-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2487.	5-[2,5-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2488.	5-[2,6-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2489.	5-[3,4-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2490.	5-[3,5-di(trifluoromethyl)phenoxy]-oxazol-2-yl
2491.	5-(2,3-dimethoxyphenoxy)-oxazol-2-yl
2492.	5-(2,4-dimethoxyphenoxy)-oxazol-2-yl
2493.	5-(2,5-dimethoxyphenoxy)-oxazol-2-yl
2494.	5-(2,6-dimethoxyphenoxy)-oxazol-2-yl
2495.	5-(3,4-dimethoxyphenoxy)-oxazol-2-yl
2496.	5-(3,5-dimethoxyphenoxy)-oxazol-2-yl
2497.	5-(o-CN-phenyl)-thiazol-2-yl
2498.	5-(m-CN-phenyl)-thiazol-2-yl
2499.	5-(p-CN-phenyl)-thiazol-2-yl
2500.	5-(o-NO_2-phenyl)-thiazol-2-yl
2501.	5-(m-NO_2-phenyl)-thiazol-2-yl
2502.	5-(p-NO_2-phenyl)-thiazol-2-yl
2503.	5-(o-F-phenyl)-thiazol-2-yl
2504.	5-(m-F-phenyl)-thiazol-2-yl
2505.	5-(p-F-phenyl)-thiazol-2-yl
2506.	5-(o-Cl-phenyl)-thiazol-2-yl
2507.	5-(m-Cl-phenyl)-thiazol-2-yl
2508.	5-(p-Cl-phenyl)-thiazol-2-yl
2509.	5-(o-Br-phenyl)-thiazol-2-yl
2510.	5-(m-Br-phenyl)-thiazol-2-yl
2511.	5-(p-Br-phenyl)-thiazol-2-yl
2512.	5-(o-CH_3-phenyl)-thiazol-2-yl
2513.	5-(m-CH_3-phenyl)-thiazol-2-yl
2514.	5-(p-CH_3-phenyl)-thiazol-2-yl
2515.	5-(o-CF_3-phenyl)-thiazol-2-yl
2516.	5-(m-CF_3-phenyl)-thiazol-2-yl
2517.	5-(p-CF_3-phenyl)-thiazol-2-yl
2518.	5-(o-CF_3-phenyl)-thiazol-2-yl
2519.	5-(m-CF_3-phenyl)-thiazol-2-yl

no.	R^3-A-
2520.	5-(p-CF_3-phenyl)-thiazol-2-yl
2521.	5-(o-OCH_3-phenyl)-thiazol-2-yl
2522.	5-(m-OCH_3-phenyl)-thiazol-2-yl
2523.	5-(p-OCH_3-phenyl)-thiazol-2-yl
2524.	5-(o-OCF_3-phenyl)-thiazol-2-yl
2525.	5-(m-OCF_3-phenyl)-thiazol-2-yl
2526.	5-(p-OCF_3-phenyl)-thiazol-2-yl
2527.	5-(o-$COOCH_3$-phenyl)-thiazol-2-yl
2528.	5-(m-$COOCH_3$-phenyl)-thiazol-2-yl
2529.	5-(p-$COOCH_3$-phenyl)-thiazol-2-yl
2530.	5-[o-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2531.	5-[m-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2532.	5-[p-$N(CH_3)_2$-phenyl]-thiazol-2-yl
2533.	5-(2,3-dicyanophenyl)-thiazol-2-yl
2534.	5-(2,4-dicyanophenyl)-thiazol-2-yl
2535.	5-(2,5-dicyanophenyl)-thiazol-2-yl
2536.	5-(2,6-dicyanophenyl)-thiazol-2-yl
2537.	5-(3,4-dicyanophenyl)-thiazol-2-yl
2538.	5-(3,5-dicyanophenyl)-thiazol-2-yl
2539.	5-(2,3-difluorophenyl)-thiazol-2-yl
2540.	5-(2,4-difluorophenyl)-thiazol-2-yl
2541.	5-(2,5-difluorophenyl)-thiazol-2-yl
2542.	5-(2,6-difluorophenyl)-thiazol-2-yl
2543.	5-(3,4-difluorophenyl)-thiazol-2-yl
2544.	5-(3,5-difluorophenyl)-thiazol-2-yl
2545.	5-(2,3-dichlorophenyl)-thiazol-2-yl
2546.	5-(2,4-dichlorophenyl)-thiazol-2-yl
2547.	5-(2,5-dichlorophenyl)-thiazol-2-yl
2548.	5-(2,6-dichlorophenyl)-thiazol-2-yl
2549.	5-(3,4-dichlorophenyl)-thiazol-2-yl
2550.	5-(3,5-dichlorophenyl)-thiazol-2-yl
2551.	5-(2,3-dibromophenyl)-thiazol-2-yl
2552.	5-(2,4-dibromophenyl)-thiazol-2-yl
2553.	5-(2,5-dibromophenyl)-thiazol-2-yl
2554.	5-(2,6-dibromophenyl)-thiazol-2-yl
2555.	5-(3,4-dibromophenyl)-thiazol-2-yl
2556.	5-(3,5-dibromophenyl)-thiazol-2-yl
2557.	5-(2,3-dimethylphenyl)-thiazol-2-yl
2558.	5-(2,4-dimethylphenyl)-thiazol-2-yl
2559.	5-(2,5-dimethylphenyl)-thiazol-2-yl
2560.	5-(2,6-dimethylphenyl)-thiazol-2-yl
2561.	5-(3,4-dimethylphenyl)-thiazol-2-yl
2562.	5-(3,5-dimethylphenyl)-thiazol-2-yl
2563.	5-[2,3-di(trifluoromethyl)phenyl]-thiazol-2-yl
2564.	5-[2,4-di(trifluoromethyl)phenyl]-thiazol-2-yl
2565.	5-[2,5-di(trifluoromethyl)phenyl]-thiazol-2-yl
2566.	5-[2,6-di(trifluoromethyl)phenyl]-thiazol-2-yl
2567.	5-[3,4-di(trifluoromethyl)phenyl]-thiazol-2-yl
2568.	5-[3,5-di(trifluoromethyl)phenyl]-thiazol-2-yl
2569.	5-(2,3-dimethoxyphenyl)-thiazol-2-yl
2570.	5-(2,4-dimethoxyphenyl)-thiazol-2-yl
2571.	5-(2,5-dimethoxyphenyl)-thiazol-2-yl
2572.	5-(2,6-dimethoxyphenyl)-thiazol-2-yl

no.	R^3-A-
2573.	5-(3,4-dimethoxyphenyl)-thiazol-2-yl
2574.	5-(3,5-dimethoxyphenyl)-thiazol-2-yl
2575.	5-(o-CN-phenoxy)-thiazol-2-yl
2576.	5-(m-CN-phenoxy)-thiazol-2-yl
2577.	5-(p-CN-phenoxy)-thiazol-2-yl
2578.	5-(o-NO_2-phenoxy)-thiazol-2-yl
2579.	5-(m-NO_2-phenoxy)-thiazol-2-yl
2580.	5-(p-NO_2-phenoxy)-thiazol-2-yl
2581.	5-(o-F-phenoxy)-thiazol-2-yl
2582.	5-(m-F-phenoxy)-thiazol-2-yl
2583.	5-(p-F-phenoxy)-thiazol-2-yl
2584.	5-(o-Cl-phenoxy)-thiazol-2-yl
2585.	5-(m-Cl-phenoxy)-thiazol-2-yl
2586.	5-(p-Cl-phenoxy)-thiazol-2-yl
2587.	5-(o-Br-phenoxy)-thiazol-2-yl
2588.	5-(m-Br-phenoxy)-thiazol-2-yl
2589.	5-(p-Br-phenoxy)-thiazol-2-yl
2590.	5-(o-CH_3-phenoxy)-thiazol-2-yl
2591.	5-(m-CH_3-phenoxy)-thiazol-2-yl
2592.	5-(p-CH_3-phenoxy)-thiazol-2-yl
2593.	5-(o-CF_3-phenoxy)-thiazol-2-yl
2594.	5-(m-CF_3-phenoxy)-thiazol-2-yl
2595.	5-(p-CF_3-phenoxy)-thiazol-2-yl
2596.	5-(o-CF_3-phenoxy)-thiazol-2-yl
2597.	5-(m-CF_3-phenoxy)-thiazol-2-yl
2598.	5-(p-CF_3-phenoxy)-thiazol-2-yl
2599.	5-(o-OCH_3-phenoxy)-thiazol-2-yl
2600.	5-(m-OCH_3-phenoxy)-thiazol-2-yl
2601.	5-(p-OCH_3-phenoxy)-thiazol-2-yl
2602.	5-(o-OCF_3-phenoxy)-thiazol-2-yl
2603.	5-(m-OCF_3-phenoxy)-thiazol-2-yl
2604.	5-(p-OCF_3-phenoxy)-thiazol-2-yl
2605.	5-(o-$COOCH_3$-phenoxy)-thiazol-2-yl
2606.	5-(m-$COOCH_3$-phenoxy)-thiazol-2-yl
2607.	5-(p-$COOCH_3$-phenoxy)-thiazol-2-yl
2608.	5-[o-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2609.	5-[m-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2610.	5-[p-$N(CH_3)_2$-phenoxy]-thiazol-2-yl
2611.	5-(2,3-dicyanophenoxy)-thiazol-2-yl
2612.	5-(2,4-dicyanophenoxy)-thiazol-2-yl
2613.	5-(2,5-dicyanophenoxy)-thiazol-2-yl
2614.	5-(2,6-dicyanophenoxy)-thiazol-2-yl
2615.	5-(3,4-dicyanophenoxy)-thiazol-2-yl
2616.	5-(3,5-dicyanophenoxy)-thiazol-2-yl
2617.	5-(2,3-difluorophenoxy)-thiazol-2-yl
2618.	5-(2,4-difluorophenoxy)-thiazol-2-yl
2619.	5-(2,5-difluorophenoxy)-thiazol-2-yl
2620.	5-(2,6-difluorophenoxy)-thiazol-2-yl
2621.	5-(3,4-difluorophenoxy)-thiazol-2-yl
2622.	5-(3,5-difluorophenoxy)-thiazol-2-yl
2623.	5-(2,3-dichlorophenoxy)-thiazol-2-yl
2624.	5-(2,4-dichlorophenoxy)-thiazol-2-yl
2625.	5-(2,5-dichlorophenoxy)-thiazol-2-yl
2626.	5-(2,6-dichlorophenoxy)-thiazol-2-yl

no.	R^3-A-
2627.	5-(3,4-dichlorophenoxy)-thiazol-2-yl
2628.	5-(3,5-dichlorophenoxy)-thiazol-2-yl
2629.	5-(2,3-dibromophenoxy)-thiazol-2-yl
2630.	5-(2,4-dibromophenoxy)-thiazol-2-yl
2631.	5-(2,5-dibromophenoxy)-thiazol-2-yl
2632.	5-(2,6-dibromophenoxy)-thiazol-2-yl
2633.	5-(3,4-dibromophenoxy)-thiazol-2-yl
2634.	5-(3,5-dibromophenoxy)-thiazol-2-yl
2635.	5-(2,3-dimethylphenoxy)-thiazol-2-yl
2636.	5-(2,4-dimethylphenoxy)-thiazol-2-yl
2637.	5-(2,5-dimethylphenoxy)-thiazol-2-yl
2638.	5-(2,6-dimethylphenoxy)-thiazol-2-yl
2639.	5-(3,4-dimethylphenoxy)-thiazol-2-yl
2640.	5-(3,5-dimethylphenoxy)-thiazol-2-yl
2641.	5-[2,3-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2642.	5-[2,4-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2643.	5-[2,5-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2644.	5-[2,6-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2645.	5-[3,4-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2646.	5-[3,5-di(trifluoromethyl)phenoxy]-thiazol-2-yl
2647.	5-(2,3-dimethoxyphenoxy)-thiazol-2-yl
2648.	5-(2,4-dimethoxyphenoxy)-thiazol-2-yl
2649.	5-(2,5-dimethoxyphenoxy)-thiazol-2-yl
2650.	5-(2,6-dimethoxyphenoxy)-thiazol-2-yl
2651.	5-(3,4-dimethoxyphenoxy)-thiazol-2-yl
2652.	5-(3,5-dimethoxyphenoxy)-thiazol-2-yl
2653.	2-(o-CN-phenyl)-oxazol-5-yl
2654.	2-(m-CN-phenyl)-oxazol-5-yl
2655.	2-(p-CN-phenyl)-oxazol-5-yl
2656.	2-(o-NO_2-phenyl)-oxazol-5-yl
2657.	2-(m-NO_2-phenyl)-oxazol-5-yl
2658.	2-(p-NO_2-phenyl)-oxazol-5-yl
2659.	2-(o-F-phenyl)-oxazol-5-yl
2660.	2-(m-F-phenyl)-oxazol-5-yl
2661.	2-(p-F-phenyl)-oxazol-5-yl
2662.	2-(o-Cl-phenyl)-oxazol-5-yl
2663.	2-(m-Cl-phenyl)-oxazol-5-yl
2664.	2-(p-Cl-phenyl)-oxazol-5-yl
2665.	2-(o-Br-phenyl)-oxazol-5-yl
2666.	2-(m-Br-phenyl)-oxazol-5-yl
2667.	2-(p-Br-phenyl)-oxazol-5-yl
2668.	2-(o-CH_3-phenyl)-oxazol-5-yl
2669.	2-(m-CH_3-phenyl)-oxazol-5-yl
2670.	2-(p-CH_3-phenyl)-oxazol-5-yl
2671.	2-(o-CF_3-phenyl)-oxazol-5-yl
2672.	2-(m-CF_3-phenyl)-oxazol-5-yl
2673.	2-(p-CF_3-phenyl)-oxazol-5-yl
2674.	2-(o-CF_3-phenyl)-oxazol-5-yl
2675.	2-(m-CF_3-phenyl)-oxazol-5-yl
2676.	2-(p-CF_3-phenyl)-oxazol-5-yl
2677.	2-(o-OCH_3-phenyl)-oxazol-5-yl
2678.	2-(m-OCH_3-phenyl)-oxazol-5-yl
2679.	2-(p-OCH_3-phenyl)-oxazol-5-yl

no.	R^3-A-
2680.	2-(o-OCF_3-phenyl)-oxazol-5-yl
2681.	2-(m-OCF_3-phenyl)-oxazol-5-yl
2682.	2-(p-OCF_3-phenyl)-oxazol-5-yl
2683.	2-(o-$COOCH_3$-phenyl)-oxazol-5-yl
2684.	2-(m-$COOCH_3$-phenyl)-oxazol-5-yl
2685.	2-(p-$COOCH_3$-phenyl)-oxazol-5-yl
2686.	2-[o-$N(CH_3)_2$-phenyl]-oxazol-5-yl
2687.	2-[m-$N(CH_3)_2$-phenyl]-oxazol-5-yl
2688.	2-[p-$N(CH_3)_2$-phenyl]-oxazol-5-yl
2689.	2-(2,3-dicyanophenyl)-oxazol-5-yl
2690.	2-(2,4-dicyanophenyl)-oxazol-5-yl
2691.	2-(2,5-dicyanophenyl)-oxazol-5-yl
2692.	2-(2,6-dicyanophenyl)-oxazol-5-yl
2693.	2-(3,4-dicyanophenyl)-oxazol-5-yl
2694.	2-(3,5-dicyanophenyl)-oxazol-5-yl
2695.	2-(2,3-difluorophenyl)-oxazol-5-yl
2696.	2-(2,4-difluorophenyl)-oxazol-5-yl
2697.	2-(2,5-difluorophenyl)-oxazol-5-yl
2698.	2-(2,6-difluorophenyl)-oxazol-5-yl
2699.	2-(3,4-difluorophenyl)-oxazol-5-yl
2700.	2-(3,5-difluorophenyl)-oxazol-5-yl
2701.	2-(2,3-dichlorophenyl)-oxazol-5-yl
2702.	2-(2,4-dichlorophenyl)-oxazol-5-yl
2703.	2-(2,5-dichlorophenyl)-oxazol-5-yl
2704.	2-(2,6-dichlorophenyl)-oxazol-5-yl
2705.	2-(3,4-dichlorophenyl)-oxazol-5-yl
2706.	2-(3,5-dichlorophenyl)-oxazol-5-yl
2707.	2-(2,3-dibromophenyl)-oxazol-5-yl
2708.	2-(2,4-dibromophenyl)-oxazol-5-yl
2709.	2-(2,5-dibromophenyl)-oxazol-5-yl
2710.	2-(2,6-dibromophenyl)-oxazol-5-yl
2711.	2-(3,4-dibromophenyl)-oxazol-5-yl
2712.	2-(3,5-dibromophenyl)-oxazol-5-yl
2713.	2-(2,3-dimethylphenyl)-oxazol-5-yl
2714.	2-(2,4-dimethylphenyl)-oxazol-5-yl
2715.	2-(2,5-dimethylphenyl)-oxazol-5-yl
2716.	2-(2,6-dimethylphenyl)-oxazol-5-yl
2717.	2-(3,4-dimethylphenyl)-oxazol-5-yl
2718.	2-(3,5-dimethylphenyl)-oxazol-5-yl
2719.	2-[2,3-di(trifluoromethyl)phenyl]-oxazol-5-yl
2720.	2-[2,4-di(trifluoromethyl)phenyl]-oxazol-5-yl
2721.	2-[2,5-di(trifluoromethyl)phenyl]-oxazol-5-yl
2722.	2-[2,6-di(trifluoromethyl)phenyl]-oxazol-5-yl
2723.	2-[3,4-di(trifluoromethyl)phenyl]-oxazol-5-yl
2724.	2-[3,5-di(trifluoromethyl)phenyl]-oxazol-5-yl
2725.	2-(2,3-dimethoxyphenyl)-oxazol-5-yl
2726.	2-(2,4-dimethoxyphenyl)-oxazol-5-yl
2727.	2-(2,5-dimethoxyphenyl)-oxazol-5-yl
2728.	2-(2,6-dimethoxyphenyl)-oxazol-5-yl
2729.	2-(3,4-dimethoxyphenyl)-oxazol-5-yl
2730.	2-(3,5-dimethoxyphenyl)-oxazol-5-yl

no.	R^3-A-
2731.	2-(o-CN-phenoxy)-oxazol-5-yl
2732.	2-(m-CN-phenoxy)-oxazol-5-yl
2733.	2-(p-CN-phenoxy)-oxazol-5-yl
2734.	2-(o-NO_2-phenoxy)-oxazol-5-yl
2735.	2-(m-NO_2-phenoxy)-oxazol-5-yl
2736.	2-(p-NO_2-phenoxy)-oxazol-5-yl
2737.	2-(o-F-phenoxy)-oxazol-5-yl
2738.	2-(m-F-phenoxy)-oxazol-5-yl
2739.	2-(p-F-phenoxy)-oxazol-5-yl
2740.	2-(o-Cl-phenoxy)-oxazol-5-yl
2741.	2-(m-Cl-phenoxy)-oxazol-5-yl
2742.	2-(p-Cl-phenoxy)-oxazol-5-yl
2743.	2-(o-Br-phenoxy)-oxazol-5-yl
2744.	2-(m-Br-phenoxy)-oxazol-5-yl
2745.	2-(p-Br-phenoxy)-oxazol-5-yl
2746.	2-(o-CH_3-phenoxy)-oxazol-5-yl
2747.	2-(m-CH_3-phenoxy)-oxazol-5-yl
2748.	2-(p-CH_3-phenoxy)-oxazol-5-yl
2749.	2-(o-CF_3-phenoxy)-oxazol-5-yl
2750.	2-(m-CF_3-phenoxy)-oxazol-5-yl
2751.	2-(p-CF_3-phenoxy)-oxazol-5-yl
2752.	2-(o-CF_3-phenoxy)-oxazol-5-yl
2753.	2-(m-CF_3-phenoxy)-oxazol-5-yl
2754.	2-(p-CF_3-phenoxy)-oxazol-5-yl
2755.	2-(o-OCH_3-phenoxy)-oxazol-5-yl
2756.	2-(m-OCH_3-phenoxy)-oxazol-5-yl
2757.	2-(p-OCH_3-phenoxy)-oxazol-5-yl
2758.	2-(o-OCF_3-phenoxy)-oxazol-5-yl
2759.	2-(m-OCF_3-phenoxy)-oxazol-5-yl
2760.	2-(p-OCF_3-phenoxy)-oxazol-5-yl
2761.	2-(o-$COOCH_3$-phenoxy)-oxazol-5-yl
2762.	2-(m-$COOCH_3$-phenoxy)-oxazol-5-yl
2763.	2-(p-$COOCH_3$-phenoxy)-oxazol-5-yl
2764.	2-[o-$N(CH_3)_2$-phenoxy]-oxazol-5-yl
2765.	2-[m-$N(CH_3)_2$-phenoxy]-oxazol-5-yl
2766.	2-[p-$N(CH_3)_2$-phenoxy]-oxazol-5-yl
2767.	2-(2,3-dicyanophenoxy)-oxazol-5-yl
2768.	2-(2,4-dicyanophenoxy)-oxazol-5-yl
2769.	2-(2,5-dicyanophenoxy)-oxazol-5-yl
2770.	2-(2,6-dicyanophenoxy)-oxazol-5-yl
2771.	2-(3,4-dicyanophenoxy)-oxazol-5-yl
2772.	2-(3,5-dicyanophenoxy)-oxazol-5-yl
2773.	2-(2,3-difluorophenoxy)-oxazol-5-yl
2774.	2-(2,4-difluorophenoxy)-oxazol-5-yl
2775.	2-(2,5-difluorophenoxy)-oxazol-5-yl
2776.	2-(2,6-difluorophenoxy)-oxazol-5-yl
2777.	2-(3,4-difluorophenoxy)-oxazol-5-yl
2778.	2-(3,5-difluorophenoxy)-oxazol-5-yl
2779.	2-(2,3-dichlorophenoxy)-oxazol-5-yl
2780.	2-(2,4-dichlorophenoxy)-oxazol-5-yl
2781.	2-(2,5-dichlorophenoxy)-oxazol-5-yl
2782.	2-(2,6-dichlorophenoxy)-oxazol-5-yl
2783.	2-(3,4-dichlorophenoxy)-oxazol-5-yl
2784.	2-(3,5-dichlorophenoxy)-oxazol-5-yl

no.	R^3-A-
2785.	2-(2,3-dibromophenoxy)-oxazol-5-yl
2786.	2-(2,4-dibromophenoxy)-oxazol-5-yl
2787.	2-(2,5-dibromophenoxy)-oxazol-5-yl
2788.	2-(2,6-dibromophenoxy)-oxazol-5-yl
2789.	2-(3,4-dibromophenoxy)-oxazol-5-yl
2790.	2-(3,5-dibromophenoxy)-oxazol-5-yl
2791.	2-(2,3-dimethylphenoxy)-oxazol-5-yl
2792.	2-(2,4-dimethylphenoxy)-oxazol-5-yl
2793.	2-(2,5-dimethylphenoxy)-oxazol-5-yl
2794.	2-(2,6-dimethylphenoxy)-oxazol-5-yl
2795.	2-(3,4-dimethylphenoxy)-oxazol-5-yl
2796.	2-(3,5-dimethylphenoxy)-oxazol-5-yl
2797.	2-[2,3-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2798.	2-[2,4-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2799.	2-[2,5-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2800.	2-[2,6-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2801.	2-[3,4-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2802.	2-[3,5-di(trifluoromethyl)phenoxy]-oxazol-5-yl
2803.	2-(2,3-dimethoxyphenoxy)-oxazol-5-yl
2804.	2-(2,4-dimethoxyphenoxy)-oxazol-5-yl
2805.	2-(2,5-dimethoxyphenoxy)-oxazol-5-yl
2806.	2-(2,6-dimethoxyphenoxy)-oxazol-5-yl
2807.	2-(3,4-dimethoxyphenoxy)-oxazol-5-yl
2808.	2-(3,5-dimethoxyphenoxy)-oxazol-5-yl
2809.	2-(o-CN-phenyl)-thiazol-5-yl
2810.	2-(m-CN-phenyl)-thiazol-5-yl
2811.	2-(p-CN-phenyl)-thiazol-5-yl
2812.	2-(o-NO_2-phenyl)-thiazol-5-yl
2813.	2-(m-NO_2-phenyl)-thiazol-5-yl
2814.	2-(p-NO_2-phenyl)-thiazol-5-yl
2815.	2-(o-F-phenyl)-thiazol-5-yl
2816.	2-(m-F-phenyl)-thiazol-5-yl
2817.	2-(p-F-phenyl)-thiazol-5-yl
2818.	2-(o-Cl-phenyl)-thiazol-5-yl
2819.	2-(m-Cl-phenyl)-thiazol-5-yl
2820.	2-(p-Cl-phenyl)-thiazol-5-yl
2821.	2-(o-Br-phenyl)-thiazol-5-yl
2822.	2-(m-Br-phenyl)-thiazol-5-yl
2823.	2-(p-Br-phenyl)-thiazol-5-yl
2824.	2-(o-CH_3-phenyl)-thiazol-5-yl
2825.	2-(m-CH_3-phenyl)-thiazol-5-yl
2826.	2-(p-CH_3-phenyl)-thiazol-5-yl
2827.	2-(o-CF_3-phenyl)-thiazol-5-yl
2828.	2-(m-CF_3-phenyl)-thiazol-5-yl
2829.	2-(p-CF_3-phenyl)-thiazol-5-yl
2830.	2-(o-CF_3-phenyl)-thiazol-5-yl
2831.	2-(m-CF_3-phenyl)-thiazol-5-yl
2832.	2-(p-CF_3-phenyl)-thiazol-5-yl
2833.	2-(o-OCH_3-phenyl)-thiazol-5-yl
2834.	2-(m-OCH_3-phenyl)-thiazol-5-yl
2835.	2-(p-OCH_3-phenyl)-thiazol-5-yl
2836.	2-(o-OCF_3-phenyl)-thiazol-5-yl
2837.	2-(m-OCF_3-phenyl)-thiazol-5-yl
2838.	2-(p-OCF_3-phenyl)-thiazol-5-yl

no.	R^3-A-
2839.	2-(o-$COOCH_3$-phenyl)-thiazol-5-yl
2840.	2-(m-$COOCH_3$-phenyl)-thiazol-5-yl
2841.	2-(p-$COOCH_3$-phenyl)-thiazol-5-yl
2842.	2-[o-$N(CH_3)_2$-phenyl]-thiazol-5-yl
2843.	2-[m-$N(CH_3)_2$-phenyl]-thiazol-5-yl
2844.	2-[p-$N(CH_3)_2$-phenyl]-thiazol-5-yl
2845.	2-(2,3-dicyanophenyl)-thiazol-5-yl
2846.	2-(2,4-dicyanophenyl)-thiazol-5-yl
2847.	2-(2,5-dicyanophenyl)-thiazol-5-yl
2848.	2-(2,6-dicyanophenyl)-thiazol-5-yl
2849.	2-(3,4-dicyanophenyl)-thiazol-5-yl
2850.	2-(3,5-dicyanophenyl)-thiazol-5-yl
2851.	2-(2,3-difluorophenyl)-thiazol-5-yl
2852.	2-(2,4-difluorophenyl)-thiazol-5-yl
2853.	2-(2,5-difluorophenyl)-thiazol-5-yl
2854.	2-(2,6-difluorophenyl)-thiazol-5-yl
2855.	2-(3,4-difluorophenyl)-thiazol-5-yl
2856.	2-(3,5-difluorophenyl)-thiazol-5-yl
2857.	2-(2,3-dichlorophenyl)-thiazol-5-yl
2858.	2-(2,4-dichlorophenyl)-thiazol-5-yl
2859.	2-(2,5-dichlorophenyl)-thiazol-5-yl
2860.	2-(2,6-dichlorophenyl)-thiazol-5-yl
2861.	2-(3,4-dichlorophenyl)-thiazol-5-yl
2862.	2-(3,5-dichlorophenyl)-thiazol-5-yl
2863.	2-(2,3-dibromophenyl)-thiazol-5-yl
2864.	2-(2,4-dibromophenyl)-thiazol-5-yl
2865.	2-(2,5-dibromophenyl)-thiazol-5-yl
2866.	2-(2,6-dibromophenyl)-thiazol-5-yl
2867.	2-(3,4-dibromophenyl)-thiazol-5-yl
2868.	2-(3,5-dibromophenyl)-thiazol-5-yl

no.	R^3-A-
2869.	2-(2,3-dimethylphenyl)-thiazol-5-yl
2870.	2-(2,4-dimethylphenyl)-thiazol-5-yl
2871.	2-(2,5-dimethylphenyl)-thiazol-5-yl
2872.	2-(2,6-dimethylphenyl)-thiazol-5-yl
2873.	2-(3,4-dimethylphenyl)-thiazol-5-yl
2874.	2-(3,5-dimethylphenyl)-thiazol-5-yl
2875.	2-[2,3-di(trifluoromethyl)phenyl]-thiazol-5-yl
2876.	2-[2,4-di(trifluoromethyl)phenyl]-thiazol-5-yl
2877.	2-[2,5-di(trifluoromethyl)phenyl]-thiazol-5-yl
2878.	2-[2,6-di(trifluoromethyl)phenyl]-thiazol-5-yl
2879.	2-[3,4-di(trifluoromethyl)phenyl]-thiazol-5-yl
2880.	2-[3,5-di(trifluoromethyl)phenyl]-thiazol-5-yl
2881.	2-(2,3-dimethoxyphenyl)-thiazol-5-yl
2882.	2-(2,4-dimethoxyphenyl)-thiazol-5-yl
2883.	2-(2,5-dimethoxyphenyl)-thiazol-5-yl
2884.	2-(2,6-dimethoxyphenyl)-thiazol-5-yl
2885.	2-(3,4-dimethoxyphenyl)-thiazol-5-yl
2886.	2-(3,5-dimethoxyphenyl)-thiazol-5-yl
2887.	2-(o-CN-phenoxy)-thiazol-5-yl
2888.	2-(m-CN-phenoxy)-thiazol-5-yl
2889.	2-(p-CN-phenoxy)-thiazol-5-yl
2890.	2-(o-NO_2-phenoxy)-thiazol-5-yl

no.	R^3-A-
2891.	2-(m-NO_2-phenoxy)-thiazol-5-yl
2892.	2-(p-NO_2-phenoxy)-thiazol-5-yl
2893.	2-(o-F-phenoxy)-thiazol-5-yl
2894.	2-(m-F-phenoxy)-thiazol-5-yl
2895.	2-(p-F-phenoxy)-thiazol-5-yl
2896.	2-(o-Cl-phenoxy)-thiazol-5-yl
2897.	2-(m-Cl-phenoxy)-thiazol-5-yl
2898.	2-(p-Cl-phenoxy)-thiazol-5-yl
2899.	2-(o-Br-phenoxy)-thiazol-5-yl
2900.	2-(m-Br-phenoxy)-thiazol-5-yl
2901.	2-(p-Br-phenoxy)-thiazol-5-yl
2902.	2-(o-CH_3-phenoxy)-thiazol-5-yl
2903.	2-(m-CH_3-phenoxy)-thiazol-5-yl
2904.	2-(p-CH_3-phenoxy)-thiazol-5-yl
2905.	2-(o-CF_3-phenoxy)-thiazol-5-yl
2906.	2-(m-CF_3-phenoxy)-thiazol-5-yl
2907.	2-(p-CF_3-phenoxy)-thiazol-5-yl
2908.	2-(o-CF_3-phenoxy)-thiazol-5-yl
2909.	2-(m-CF_3-phenoxy)-thiazol-5-yl
2910.	2-(p-CF_3-phenoxy)-thiazol-5-yl
2911.	2-(o-OCH_3-phenoxy)-thiazol-5-yl
2912.	2-(m-OCH_3-phenoxy)-thiazol-5-yl
2913.	2-(p-OCH_3-phenoxy)-thiazol-5-yl
2914.	2-(o-OCF_3-phenoxy)-thiazol-5-yl
2915.	2-(m-OCF_3-phenoxy)-thiazol-5-yl
2916.	2-(p-OCF_3-phenoxy)-thiazol-5-yl
2917.	2-(o-$COOCH_3$-phenoxy)-thiazol-5-yl
2918.	2-(m-$COOCH_3$-phenoxy)-thiazol-5-yl
2919.	2-(p-$COOCH_3$-phenoxy)-thiazol-5-yl
2920.	2-[o-$N(CH_3)_2$-phenoxy]-thiazol-5-yl
2921.	2-[m-$N(CH_3)_2$-phenoxy]-thiazol-5-yl
2922.	2-[p-$N(CH_3)_2$-phenoxy]-thiazol-5-yl

no.	R^3-A-
2923.	2-(2,3-dicyanophenoxy)-thiazol-5-yl
2924.	2-(2,4-dicyanophenoxy)-thiazol-5-yl
2925.	2-(2,5-dicyanophenoxy)-thiazol-5-yl
2926.	2-(2,6-dicyanophenoxy)-thiazol-5-yl
2927.	2-(3,4-dicyanophenoxy)-thiazol-5-yl
2928.	2-(3,5-dicyanophenoxy)-thiazol-5-yl
2929.	2-(2,3-difluorophenoxy)-thiazol-5-yl
2930.	2-(2,4-difluorophenoxy)-thiazol-5-yl
2931.	2-(2,5-difluorophenoxy)-thiazol-5-yl
2932.	2-(2,6-difluorophenoxy)-thiazol-5-yl
2933.	2-(3,4-difluorophenoxy)-thiazol-5-yl
2934.	2-(3,5-difluorophenoxy)-thiazol-5-yl
2935.	2-(2,3-dichlorophenoxy)-thiazol-5-yl
2936.	2-(2,4-dichlorophenoxy)-thiazol-5-yl
2937.	2-(2,5-dichlorophenoxy)-thiazol-5-yl
2938.	2-(2,6-dichlorophenoxy)-thiazol-5-yl
2939.	2-(3,4-dichlorophenoxy)-thiazol-5-yl
2940.	2-(3,5-dichlorophenoxy)-thiazol-5-yl
2941.	2-(2,3-dibromophenoxy)-thiazol-5-yl
2942.	2-(2,4-dibromophenoxy)-thiazol-5-yl

no.	R^3-A-
2943.	2-(2,5-dibromophenoxy)-thiazol-5-yl
2944.	2-(2,6-dibromophenoxy)-thiazol-5-yl
2945.	2-(3,4-dibromophenoxy)-thiazol-5-yl
2946.	2-(3,5-dibromophenoxy)-thiazol-5-yl
2947.	2-(2,3-dimethylphenoxy)-thiazol-5-yl
2948.	2-(2,4-dimethylphenoxy)-thiazol-5-yl
2949.	2-(2,5-dimethylphenoxy)-thiazol-5-yl
2950.	2-(2,6-dimethylphenoxy)-thiazol-5-yl
2951.	2-(3,4-dimethylphenoxy)-thiazol-5-yl
2952.	2-(3,5-dimethylphenoxy)-thiazol-5-yl
2953.	2-[2,3-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2954.	2-[2,4-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2955.	2-[2,5-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2956.	2-[2,6-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2957.	2-[3,4-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2958.	2-[3,5-di(trifluoromethyl)phenoxy]-thiazol-5-yl
2959.	2-(2,3-dimethoxyphenoxy)-thiazol-5-yl
2960.	2-(2,4-dimethoxyphenoxy)-thiazol-5-yl
2961.	2-(2,5-dimethoxyphenoxy)-thiazol-5-yl
2962.	2-(2,6-dimethoxyphenoxy)-thiazol-5-yl
2963.	2-(3,4-dimethoxyphenoxy)-thiazol-5-yl
2964.	2-(3,5-dimethoxyphenoxy)-thiazol-5-yl
2965.	2-(o-CN-phenyl)-oxazol-4-yl
2966.	2-(m-CN-phenyl)-oxazol-4-yl
2967.	2-(p-CN-phenyl)-oxazol-4-yl
2968.	2-(o-NO_2-phenyl)-oxazol-4-yl
2969.	2-(m-NO_2-phenyl)-oxazol-4-yl
2970.	2-(p-NO_2-phenyl)-oxazol-4-yl
2971.	2-(o-F-phenyl)-oxazol-4-yl
2972.	2-(m-F-phenyl)-oxazol-4-yl
2973.	2-(p-F-phenyl)-oxazol-4-yl
2974.	2-(o-Cl-phenyl)-oxazol-4-yl
2975.	2-(m-Cl-phenyl)-oxazol-4-yl
2976.	2-(p-Cl-phenyl)-oxazol-4-yl
2977.	2-(o-Br-phenyl)-oxazol-4-yl
2978.	2-(m-Br-phenyl)-oxazol-4-yl
2979.	2-(p-Br-phenyl)-oxazol-4-yl
2980.	2-(o-CH_3-phenyl)-oxazol-4-yl
2981.	2-(m-CH_3-phenyl)-oxazol-4-yl
2982.	2-(p-CH_3-phenyl)-oxazol-4-yl
2983.	2-(o-CF_3-phenyl)-oxazol-4-yl
2984.	2-(m-CF_3-phenyl)-oxazol-4-yl
2985.	2-(p-CF_3-phenyl)-oxazol-4-yl
2986.	2-(o-CF_3-phenyl)-oxazol-4-yl
2987.	2-(m-CF_3-phenyl)-oxazol-4-yl
2988.	2-(p-CF_3-phenyl)-oxazol-4-yl
2989.	2-(o-OCH_3-phenyl)-oxazol-4-yl
2990.	2-(m-OCH_3-phenyl)-oxazol-4-yl
2991.	2-(p-OCH_3-phenyl)-oxazol-4-yl
2992.	2-(o-OCF_3-phenyl)-oxazol-4-yl
2993.	2-(m-OCF_3-phenyl)-oxazol-4-yl
2994.	2-(p-OCF_3-phenyl)-oxazol-4-yl
2995.	2-(o-$COOCH_3$-phenyl)-oxazol-4-yl
2996.	2-(m-$COOCH_3$-phenyl)-oxazol-4-yl

no.	R^3-A-
2997.	2-(p-$COOCH_3$-phenyl)-oxazol-4-yl
2998.	2-[o-$N(CH_3)_2$-phenyl]-oxazol-4-yl
2999.	2-[m-$N(CH_3)_2$-phenyl]-oxazol-4-yl
3000.	2-[p-$N(CH_3)_2$-phenyl]-oxazol-4-yl
3001.	2-(2,3-dicyanophenyl)-oxazol-4-yl
3002.	2-(2,4-dicyanophenyl)-oxazol-4-yl
3003.	2-(2,5-dicyanophenyl)-oxazol-4-yl
3004.	2-(2,6-dicyanophenyl)-oxazol-4-yl
3005.	2-(3,4-dicyanophenyl)-oxazol-4-yl
3006.	2-(3,5-dicyanophenyl)-oxazol-4-yl
3007.	2-(2,3-difluorophenyl)-oxazol-4-yl
3008.	2-(2,4-difluorophenyl)-oxazol-4-yl
3009.	2-(2,5-difluorophenyl)-oxazol-4-yl
3010.	2-(2,6-difluorophenyl)-oxazol-4-yl
3011.	2-(3,4-difluorophenyl)-oxazol-4-yl
3012.	2-(3,5-difluorophenyl)-oxazol-4-yl
3013.	2-(2,3-dichlorophenyl)-oxazol-4-yl
3014.	2-(2,4-dichlorophenyl)-oxazol-4-yl
3015.	2-(2,5-dichlorophenyl)-oxazol-4-yl
3016.	2-(2,6-dichlorophenyl)-oxazol-4-yl
3017.	2-(3,4-dichlorophenyl)-oxazol-4-yl
3018.	2-(3,5-dichlorophenyl)-oxazol-4-yl
3019.	2-(2,3-dibromophenyl)-oxazol-4-yl
3020.	2-(2,4-dibromophenyl)-oxazol-4-yl
3021.	2-(2,5-dibromophenyl)-oxazol-4-yl
3022.	2-(2,6-dibromophenyl)-oxazol-4-yl
3023.	2-(3,4-dibromophenyl)-oxazol-4-yl
3024.	2-(3,5-dibromophenyl)-oxazol-4-yl
3025.	2-(2,3-dimethylphenyl)-oxazol-4-yl
3026.	2-(2,4-dimethylphenyl)-oxazol-4-yl
3027.	2-(2,5-dimethylphenyl)-oxazol-4-yl
3028.	2-(2,6-dimethylphenyl)-oxazol-4-yl
3029.	2-(3,4-dimethylphenyl)-oxazol-4-yl
3030.	2-(3,5-dimethylphenyl)-oxazol-4-yl
3031.	2-[2,3-di(trifluoromethyl)phenyl]-oxazol-4-yl
3032.	2-[2,4-di(trifluoromethyl)phenyl]-oxazol-4-yl
3033.	2-[2,5-di(trifluoromethyl)phenyl]-oxazol-4-yl
3034.	2-[2,6-di(trifluoromethyl)phenyl]-oxazol-4-yl
3035.	2-[3,4-di(trifluoromethyl)phenyl]-oxazol-4-yl
3036.	2-[3,5-di(trifluoromethyl)phenyl]-oxazol-4-yl
3037.	2-(2,3-dimethoxyphenyl)-oxazol-4-yl
3038.	2-(2,4-dimethoxyphenyl)-oxazol-4-yl
3039.	2-(2,5-dimethoxyphenyl)-oxazol-4-yl
3040.	2-(2,6-dimethoxyphenyl)-oxazol-4-yl
3041.	2-(3,4-dimethoxyphenyl)-oxazol-4-yl
3042.	2-(3,5-dimethoxyphenyl)-oxazol-4-yl
3043.	2-(o-CN-phenoxy)-oxazol-4-yl
3044.	2-(m-CN-phenoxy)-oxazol-4-yl
3045.	2-(p-CN-phenoxy)-oxazol-4-yl
3046.	2-(o-NO_2-phenoxy)-oxazol-4-yl
3047.	2-(m-NO_2-phenoxy)-oxazol-4-yl
3048.	2-(p-NO_2-phenoxy)-oxazol-4-yl
3049.	2-(o-F-phenoxy)-oxazol-4-yl
3050.	2-(m-F-phenoxy)-oxazol-4-yl

no.	R^3-A-
3051	2-(p-F-phenoxy)-oxazol-4-yl
3052	2-(o-Cl-phenoxy)-oxazol-4-yl
3053	2-(m-Cl-phenoxy)-oxazol-4-yl
3054	2-(p-Cl-phenoxy)-oxazol-4-yl
3055	2-(o-Br-phenoxy)-oxazol-4-yl
3056	2-(m-Br-phenoxy)-oxazol-4-yl
3057	2-(p-Br-phenoxy)-oxazol-4-yl
3058	2-(o-CH_3-phenoxy)-oxazol-4-yl
3059	2-(m-CH_3-phenoxy)-oxazol-4-yl
3060	2-(p-CH_3-phenoxy)-oxazol-4-yl
3061	2-(o-CF_3-phenoxy)-oxazol-4-yl
3062	2-(m-CF_3-phenoxy)-oxazol-4-yl
3063	2-(p-CF_3-phenoxy)-oxazol-4-yl
3064	2-(o-CF_3-phenoxy)-oxazol-4-yl
3065	2-(m-CF_3-phenoxy)-oxazol-4-yl
3066	2-(p-CF_3-phenoxy)-oxazol-4-yl
3067	2-(o-OCH_3-phenoxy)-oxazol-4-yl
3068	2-(m-OCH_3-phenoxy)-oxazol-4-yl
3069	2-(p-OCH_3-phenoxy)-oxazol-4-yl
3070	2-(o-OCF_3-phenoxy)-oxazol-4-yl
3071	2-(m-OCF_3-phenoxy)-oxazol-4-yl
3072	2-(p-OCF_3-phenoxy)-oxazol-4-yl
3073	2-(o-$COOCH_3$-phenoxy)-oxazol-4-yl
3074	2-(m-$COOCH_3$-phenoxy)-oxazol-4-yl
3075	2-(p-$COOCH_3$-phenoxy)-oxazol-4-yl
3076	2-[o-$N(CH_3)_2$-phenoxy]-oxazol-4-yl
3077	2-[m-$N(CH_3)_2$-phenoxy]-oxazol-4-yl
3078	2-[p-$N(CH_3)_2$-phenoxy]-oxazol-4-yl
3079	2-(2,3-dicyanophenoxy)-oxazol-4-yl
3080	2-(2,4-dicyanophenoxy)-oxazol-4-yl
3081	2-(2,5-dicyanophenoxy)-oxazol-4-yl
3082	2-(2,6-dicyanophenoxy)-oxazol-4-yl
3083	2-(3,4-dicyanophenoxy)-oxazol-4-yl
3084	2-(3,5-dicyanophenoxy)-oxazol-4-yl
3085	2-(2,3-difluorophenoxy)-oxazol-4-yl
3086	2-(2,4-difluorophenoxy)-oxazol-4-yl
3087	2-(2,5-difluorophenoxy)-oxazol-4-yl
3088	2-(2,6-difluorophenoxy)-oxazol-4-yl
3089	2-(3,4-difluorophenoxy)-oxazol-4-yl
3090	2-(3,5-difluorophenoxy)-oxazol-4-yl
3091	2-(2,3-dichlorophenoxy)-oxazol-4-yl
3092	2-(2,4-dichlorophenoxy)-oxazol-4-yl
3093	2-(2,5-dichlorophenoxy)-oxazol-4-yl
3094	2-(2,6-dichlorophenoxy)-oxazol-4-yl
3095	2-(3,4-dichlorophenoxy)-oxazol-4-yl
3096	2-(3,5-dichlorophenoxy)-oxazol-4-yl
3097	2-(2,3-dibromophenoxy)-oxazol-4-yl
3098	2-(2,4-dibromophenoxy)-oxazol-4-yl
3099	2-(2,5-dibromophenoxy)-oxazol-4-yl
3100	2-(2,6-dibromophenoxy)-oxazol-4-yl

no.	R^3-A-
3101.	2-(3,4-dibromophenoxy)-oxazol-4-yl
3102.	2-(3,5-dibromophenoxy)-oxazol-4-yl
3103.	2-(2,3-dimethylphenoxy)-oxazol-4-yl
3104.	2-(2,4-dimethylphenoxy)-oxazol-4-yl
3105.	2-(2,5-dimethylphenoxy)-oxazol-4-yl
3106.	2-(2,6-dimethylphenoxy)-oxazol-4-yl
3107.	2-(3,4-dimethylphenoxy)-oxazol-4-yl
3108.	2-(3,5-dimethylphenoxy)-oxazol-4-yl
3109.	2-[2,3-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3110.	2-[2,4-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3111.	2-[2,5-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3112.	2-[2,6-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3113.	2-[3,4-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3114.	2-[3,5-di(trifluoromethyl)phenoxy]-oxazol-4-yl
3115.	2-(2,3-dimethoxyphenoxy)-oxazol-4-yl
3116.	2-(2,4-dimethoxyphenoxy)-oxazol-4-yl
3117.	2-(2,5-dimethoxyphenoxy)-oxazol-4-yl
3118.	2-(2,6-dimethoxyphenoxy)-oxazol-4-yl
3119.	2-(3,4-dimethoxyphenoxy)-oxazol-4-yl
3120.	2-(3,5-dimethoxyphenoxy)-oxazol-4-yl

no.	R^3-A-
3121.	2-(o-CN-phenyl)-thiazol-4-yl
3122.	2-(m-CN-phenyl)-thiazol-4-yl
3123.	2-(p-CN-phenyl)-thiazol-4-yl
3124.	2-(o-NO_2-phenyl)-thiazol-4-yl
3125.	2-(m-NO_2-phenyl)-thiazol-4-yl
3126.	2-(p-NO_2-phenyl)-thiazol-4-yl
3127.	2-(o-F-phenyl)-thiazol-4-yl
3128.	2-(m-F-phenyl)-thiazol-4-yl
3129.	2-(p-F-phenyl)-thiazol-4-yl
3130.	2-(o-Cl-phenyl)-thiazol-4-yl
3131.	2-(m-Cl-phenyl)-thiazol-4-yl
3132.	2-(p-Cl-phenyl)-thiazol-4-yl
3133.	2-(o-Br-phenyl)-thiazol-4-yl
3134.	2-(m-Br-phenyl)-thiazol-4-yl
3135.	2-(p-Br-phenyl)-thiazol-4-yl
3136.	2-(o-CH_3-phenyl)-thiazol-4-yl
3137.	2-(m-CH_3-phenyl)-thiazol-4-yl
3138.	2-(p-CH_3-phenyl)-thiazol-4-yl
3139.	2-(o-CF_3-phenyl)-thiazol-4-yl
3140.	2-(m-CF_3-phenyl)-thiazol-4-yl
3141.	2-(p-CF_3-phenyl)-thiazol-4-yl
3142.	2-(o-CF_3-phenyl)-thiazol-4-yl
3143.	2-(m-CF_3-phenyl)-thiazol-4-yl
3144.	2-(p-CF_3-phenyl)-thiazol-4-yl
3145.	2-(o-OCH_3-phenyl)-thiazol-4-yl
3146.	2-(m-OCH_3-phenyl)-thiazol-4-yl
3147.	2-(p-OCH_3-phenyl)-thiazol-4-yl
3148.	2-(o-OCF_3-phenyl)-thiazol-4-yl
3149.	2-(m-OCF_3-phenyl)-thiazol-4-yl
3150.	2-(p-OCF_3-phenyl)-thiazol-4-yl
3151.	2-(o-$COOCH_3$-phenyl)-thiazol-4-yl
3152.	2-(m-$COOCH_3$-phenyl)-thiazol-4-yl
3153.	2-(p-$COOCH_3$-phenyl)-thiazol-4-yl
3154.	2-[o-$N(CH_3)_2$-phenyl]-thiazol-4-yl
3155.	2-[m-$N(CH_3)_2$-phenyl]-thiazol-4-yl
3156.	2-[p-$N(CH_3)_2$-phenyl]-thiazol-4-yl

no.	R^3-A-
3157.	2-(2,3-dicyanophenyl)-thiazol-4-yl
3158.	2-(2,4-dicyanophenyl)-thiazol-4-yl
3159.	2-(2,5-dicyanophenyl)-thiazol-4-yl
3160.	2-(2,6-dicyanophenyl)-thiazol-4-yl
3161.	2-(3,4-dicyanophenyl)-thiazol-4-yl
3162.	2-(3,5-dicyanophenyl)-thiazol-4-yl
3163.	2-(2,3-difluorophenyl)-thiazol-4-yl
3164.	2-(2,4-difluorophenyl)-thiazol-4-yl
3165.	2-(2,5-difluorophenyl)-thiazol-4-yl
3166.	2-(2,6-difluorophenyl)-thiazol-4-yl
3167.	2-(3,4-difluorophenyl)-thiazol-4-yl
3168.	2-(3,5-difluorophenyl)-thiazol-4-yl
3169.	2-(2,3-dichlorophenyl)-thiazol-4-yl
3170.	2-(2,4-dichlorophenyl)-thiazol-4-yl
3171.	2-(2,5-dichlorophenyl)-thiazol-4-yl
3172.	2-(2,6-dichlorophenyl)-thiazol-4-yl
3173.	2-(3,4-dichlorophenyl)-thiazol-4-yl
3174.	2-(3,5-dichlorophenyl)-thiazol-4-yl
3175.	2-(2,3-dibromophenyl)-thiazol-4-yl
3176.	2-(2,4-dibromophenyl)-thiazol-4-yl
3177.	2-(2,5-dibromophenyl)-thiazol-4-yl
3178.	2-(2,6-dibromophenyl)-thiazol-4-yl
3179.	2-(3,4-dibromophenyl)-thiazol-4-yl
3180.	2-(3,5-dibromophenyl)-thiazol-4-yl
3181.	2-(2,3-dimethylphenyl)-thiazol-4-yl
3182.	2-(2,4-dimethylphenyl)-thiazol-4-yl
3183.	2-(2,5-dimethylphenyl)-thiazol-4-yl
3184.	2-(2,6-dimethylphenyl)-thiazol-4-yl
3185.	2-(3,4-dimethylphenyl)-thiazol-4-yl

no.	R^3-A-
3186.	2-(3,5-dimethylphenyl)-thiazol-4-yl
3187.	2-[2,3-di(trifluoromethyl)phenyl]-thiazol-4-yl
3188.	2-[2,4-di(trifluoromethyl)phenyl]-thiazol-4-yl
3189.	2-[2,5-di(trifluoromethyl)phenyl]-thiazol-4-yl
3190.	2-[2,6-di(trifluoromethyl)phenyl]-thiazol-4-yl
3191.	2-[3,4-di(trifluoromethyl)phenyl]-thiazol-4-yl
3192.	2-[3,5-di(trifluoromethyl)phenyl]-thiazol-4-yl
3193.	2-(2,3-dimethoxyphenyl)-thiazol-4-yl
3194.	2-(2,4-dimethoxyphenyl)-thiazol-4-yl
3195.	2-(2,5-dimethoxyphenyl)-thiazol-4-yl
3196.	2-(2,6-dimethoxyphenyl)-thiazol-4-yl
3197.	2-(3,4-dimethoxyphenyl)-thiazol-4-yl
3198.	2-(3,5-dimethoxyphenyl)-thiazol-4-yl
3199.	2-(o-CN-phenoxy)-thiazol-4-yl
3200.	2-(m-CN-phenoxy)-thiazol-4-yl
3201.	2-(p-CN-phenoxy)-thiazol-4-yl
3202.	2-(o-NO_2-phenoxy)-thiazol-4-yl
3203.	2-(m-NO_2-phenoxy)-thiazol-4-yl
3204.	2-(p-NO_2-phenoxy)-thiazol-4-yl
3205.	2-(o-F-phenoxy)-thiazol-4-yl
3206.	2-(m-F-phenoxy)-thiazol-4-yl
3207.	2-(p-F-phenoxy)-thiazol-4-yl
3208.	2-(o-Cl-phenoxy)-thiazol-4-yl
3209.	2-(m-Cl-phenoxy)-thiazol-4-yl
3210.	2-(p-Cl-phenoxy)-thiazol-4-yl
3211.	2-(o-Br-phenoxy)-thiazol-4-yl
3212.	2-(m-Br-phenoxy)-thiazol-4-yl

no.	R^3-A-
3213.	2-(p-Br-phenoxy)-thiazol-4-yl
3214.	2-(o-CH_3-phenoxy)-thiazol-4-yl
3215.	2-(m-CH_3-phenoxy)-thiazol-4-yl
3216.	2-(p-CH_3-phenoxy)-thiazol-4-yl
3217.	2-(o-CF_3-phenoxy)-thiazol-4-yl
3218.	2-(m-CF_3-phenoxy)-thiazol-4-yl
3219.	2-(p-CF_3-phenoxy)-thiazol-4-yl
3220.	2-(o-CF_3-phenoxy)-thiazol-4-yl
3221.	2-(m-CF_3-phenoxy)-thiazol-4-yl
3222.	2-(p-CF_3-phenoxy)-thiazol-4-yl
3223.	2-(o-OCH_3-phenoxy)-thiazol-4-yl
3224.	2-(m-OCH_3-phenoxy)-thiazol-4-yl
3225.	2-(p-OCH_3-phenoxy)-thiazol-4-yl
3226.	2-(o-OCF_3-phenoxy)-thiazol-4-yl
3227.	2-(m-OCF_3-phenoxy)-thiazol-4-yl
3228.	2-(p-OCF_3-phenoxy)-thiazol-4-yl
3229.	2-(o-$COOCH_3$-phenoxy)-thiazol-4-yl
3230.	2-(m-$COOCH_3$-phenoxy)-thiazol-4-yl
3231.	2-(p-$COOCH_3$-phenoxy)-thiazol-4-yl
3232.	2-[o-$N(CH_3)_2$-phenoxy]-thiazol-4-yl
3233.	2-[m-$N(CH_3)_2$-phenoxy]-thiazol-4-yl
3234.	2-[p-$N(CH_3)_2$-phenoxy]-thiazol-4-yl
3235.	2-(2,3-dicyanophenoxy)-thiazol-4-yl
3236.	2-(2,4-dicyanophenoxy)-thiazol-4-yl
3237.	2-(2,5-dicyanophenoxy)-thiazol-4-yl
3238.	2-(2,6-dicyanophenoxy)-thiazol-4-yl
3239.	2-(3,4-dicyanophenoxy)-thiazol-4-yl
3240.	2-(3,5-dicyanophenoxy)-thiazol-4-yl

no.	R^3-A-
3241.	2-(2,3-difluorophenoxy)-thiazol-4-yl
3242.	2-(2,4-difluorophenoxy)-thiazol-4-yl
3243.	2-(2,5-difluorophenoxy)-thiazol-4-yl
3244.	2-(2,6-difluorophenoxy)-thiazol-4-yl
3245.	2-(3,4-difluorophenoxy)-thiazol-4-yl
3246.	2-(3,5-difluorophenoxy)-thiazol-4-yl
3247.	2-(2,3-dichlorophenoxy)-thiazol-4-yl
3248.	2-(2,4-dichlorophenoxy)-thiazol-4-yl
3249.	2-(2,5-dichlorophenoxy)-thiazol-4-yl
3250.	2-(2,6-dichlorophenoxy)-thiazol-4-yl
3251.	2-(3,4-dichlorophenoxy)-thiazol-4-yl
3252.	2-(3,5-dichlorophenoxy)-thiazol-4-yl
3253.	2-(2,3-dibromophenoxy)-thiazol-4-yl
3254.	2-(2,4-dibromophenoxy)-thiazol-4-yl
3255.	2-(2,5-dibromophenoxy)-thiazol-4-yl
3256.	2-(2,6-dibromophenoxy)-thiazol-4-yl
3257.	2-(3,4-dibromophenoxy)-thiazol-4-yl
3258.	2-(3,5-dibromophenoxy)-thiazol-4-yl
3259.	2-(2,3-dimethylphenoxy)-thiazol-4-yl
3260.	2-(2,4-dimethylphenoxy)-thiazol-4-yl

no.	R^3-A-
3261.	2-(2,5-dimethylphenoxy)-thiazol-4-yl
3262.	2-(2,6-dimethylphenoxy)-thiazol-4-yl
3263.	2-(3,4-dimethylphenoxy)-thiazol-4-yl
3264.	2-(3,5-dimethylphenoxy)-thiazol-4-yl
3265.	2-[2,3-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3266.	2-[2,4-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3267.	2-[2,5-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3268.	2-[2,6-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3269.	2-[3,4-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3270.	2-[3,5-di(trifluoromethyl)phenoxy]-thiazol-4-yl
3271.	2-(2,3-dimethoxyphenoxy)-thiazol-4-yl
3272.	2-(2,4-dimethoxyphenoxy)-thiazol-4-yl
3273.	2-(2,5-dimethoxyphenoxy)-thiazol-4-yl
3274.	2-(2,6-dimethoxyphenoxy)-thiazol-4-yl
3275.	2-(3,4-dimethoxyphenoxy)-thiazol-4-yl
3276.	2-(3,5-dimethoxyphenoxy)-thiazol-4-yl
3277.	1-(o-CN-phenyl)-1H-pyrrol-3-yl
3278.	1-(m-CN-phenyl)-1H-pyrrol-3-yl
3279.	1-(p-CN-phenyl)-1H-pyrrol-3-yl
3280.	1-(o-NO_2-phenyl)-1H-pyrrol-3-yl
3281.	1-(m-NO_2-phenyl)-1H-pyrrol-3-yl
3282.	1-(p-NO_2-phenyl)-1H-pyrrol-3-yl
3283.	1-(o-F-phenyl)-1H-pyrrol-3-yl
3284.	1-(m-F-phenyl)-1H-pyrrol-3-yl

no.	R^3-A-
3285.	1-(p-F-phenyl)-1H-pyrrol-3-yl
3286.	1-(o-Cl-phenyl)-1H-pyrrol-3-yl
3287.	1-(m-Cl-phenyl)-1H-pyrrol-3-yl
3288.	1-(p-Cl-phenyl)-1H-pyrrol-3-yl
3289.	1-(o-Br-phenyl)-1H-pyrrol-3-yl
3290.	1-(m-Br-phenyl)-1H-pyrrol-3-yl
3291.	1-(p-Br-phenyl)-1H-pyrrol-3-yl
3292.	1-(o-CH_3-phenyl)-1H-pyrrol-3-yl
3293.	1-(m-CH_3-phenyl)-1H-pyrrol-3-yl
3294.	1-(p-CH_3-phenyl)-1H-pyrrol-3-yl
3295.	1-(o-CF_3-phenyl)-1H-pyrrol-3-yl
3296.	1-(m-CF_3-phenyl)-1H-pyrrol-3-yl
3297.	1-(p-CF_3-phenyl)-1H-pyrrol-3-yl
3298.	1-(o-CF_3-phenyl)-1H-pyrrol-3-yl
3299.	1-(m-CF_3-phenyl)-1H-pyrrol-3-yl
3300.	1-(p-CF_3-phenyl)-1H-pyrrol-3-yl
3301.	1-(o-OCH_3-phenyl)-1H-pyrrol-3-yl
3302.	1-(m-OCH_3-phenyl)-1H-pyrrol-3-yl
3303.	1-(p-OCH_3-phenyl)-1H-pyrrol-3-yl
3304.	1-(o-OCF_3-phenyl)-1H-pyrrol-3-yl
3305.	1-(m-OCF_3-phenyl)-1H-pyrrol-3-yl
3306.	1-(p-OCF_3-phenyl)-1H-pyrrol-3-yl
3307.	1-(o-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3308.	1-(m-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3309.	1-(p-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3310.	1-[o-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3311.	1-[m-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3312.	1-[p-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3313.	1-(2,3-dicyanophenyl)-1H-pyrrol-3-yl
3314.	1-(2,4-dicyanophenyl)-1H-pyrrol-3-yl

no.	R^3-A-
3315.	1-(2,5-dicyanophenyl)-1H-pyrrol-3-yl
3316.	1-(2,6-dicyanophenyl)-1H-pyrrol-3-yl
3317.	1-(3,4-dicyanophenyl)-1H-pyrrol-3-yl
3318.	1-(3,5-dicyanophenyl)-1H-pyrrol-3-yl
3319.	1-(2,3-difluorophenyl)-1H-pyrrol-3-yl
3320.	1-(2,4-difluorophenyl)-1H-pyrrol-3-yl
3321.	1-(2,5-difluorophenyl)-1H-pyrrol-3-yl
3322.	1-(2,6-difluorophenyl)-1H-pyrrol-3-yl
3323.	1-(3,4-difluorophenyl)-1H-pyrrol-3-yl
3324.	1-(3,5-difluorophenyl)-1H-pyrrol-3-yl
3325.	1-(2,3-dichlorophenyl)-1H-pyrrol-3-yl
3326.	1-(2,4-dichlorophenyl)-1H-pyrrol-3-yl
3327.	1-(2,5-dichlorophenyl)-1H-pyrrol-3-yl
3328.	1-(2,6-dichlorophenyl)-1H-pyrrol-3-yl
3329.	1-(3,4-dichlorophenyl)-1H-pyrrol-3-yl
3330.	1-(3,5-dichlorophenyl)-1H-pyrrol-3-yl
3331.	1-(2,3-dibromophenyl)-1H-pyrrol-3-yl
3332.	1-(2,4-dibromophenyl)-1H-pyrrol-3-yl
3333.	1-(2,5-dibromophenyl)-1H-pyrrol-3-yl
3334.	1-(2,6-dibromophenyl)-1H-pyrrol-3-yl
3335.	1-(3,4-dibromophenyl)-1H-pyrrol-3-yl
3336.	1-(3,5-dibromophenyl)-1H-pyrrol-3-yl
3337.	1-(2,3-dimethylphenyl)-1H-pyrrol-3-yl
3338.	1-(2,4-dimethylphenyl)-1H-pyrrol-3-yl
3339.	1-(2,5-dimethylphenyl)-1H-pyrrol-3-yl
3340.	1-(2,6-dimethylphenyl)-1H-pyrrol-3-yl
3341.	1-(3,4-dimethylphenyl)-1H-pyrrol-3-yl
3342.	1-(3,5-dimethylphenyl)-1H-pyrrol-3-yl
3343.	1-[2,3-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3344.	1-[2,4-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3345.	1-[2,5-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3346.	1-[2,6-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3347.	1-[3,4-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3348.	1-[3,5-di(trifluoromethyl)phenyl]-1H-pyrrol-3-yl
3349.	1-(2,3-dimethoxyphenyl)-1H-pyrrol-3-yl
3350.	1-(2,4-dimethoxyphenyl)-1H-pyrrol-3-yl
3351.	1-(2,5-dimethoxyphenyl)-1H-pyrrol-3-yl
3352.	1-(2,6-dimethoxyphenyl)-1H-pyrrol-3-yl
3353.	1-(3,4-dimethoxyphenyl)-1H-pyrrol-3-yl
3354.	1-(3,5-dimethoxyphenyl)-1H-pyrrol-3-yl

no.	R^3-A-
3355.	1-(o-CN-phenoxy)-1H-pyrrol-3-yl
3356.	1-(m-CN-phenoxy)-1H-pyrrol-3-yl
3357.	1-(p-CN-phenoxy)-1H-pyrrol-3-yl
3358.	1-(o-NO_2-phenoxy)-1H-pyrrol-3-yl
3359.	1-(m-NO_2-phenoxy)-1H-pyrrol-3-yl
3360.	1-(p-NO_2-phenoxy)-1H-pyrrol-3-yl
3361.	1-(o-F-phenoxy)-1H-pyrrol-3-yl
3362.	1-(m-F-phenoxy)-1H-pyrrol-3-yl
3363.	1-(p-F-phenoxy)-1H-pyrrol-3-yl
3364.	1-(o-Cl-phenoxy)-1H-pyrrol-3-yl
3365.	1-(m-Cl-phenoxy)-1H-pyrrol-3-yl
3366.	1-(p-Cl-phenoxy)-1H-pyrrol-3-yl
3367.	1-(o-Br-phenoxy)-1H-pyrrol-3-yl
3368.	1-(m-Br-phenoxy)-1H-pyrrol-3-yl
3369.	1-(p-Br-phenoxy)-1H-pyrrol-3-yl
3370.	1-(o-CH_3-phenoxy)-1H-pyrrol-3-yl
3371.	1-(m-CH_3-phenoxy)-1H-pyrrol-3-yl
3372.	1-(p-CH_3-phenoxy)-1H-pyrrol-3-yl
3373.	1-(o-CF_3-phenoxy)-1H-pyrrol-3-yl
3374.	1-(m-CF_3-phenoxy)-1H-pyrrol-3-yl
3375.	1-(p-CF_3-phenoxy)-1H-pyrrol-3-yl
3376.	1-(o-CF_3-phenoxy)-1H-pyrrol-3-yl
3377.	1-(m-CF_3-phenoxy)-1H-pyrrol-3-yl
3378.	1-(p-CF_3-phenoxy)-1H-pyrrol-3-yl
3379.	1-(o-OCH_3-phenoxy)-1H-pyrrol-3-yl
3380.	1-(m-OCH_3-phenoxy)-1H-pyrrol-3-yl
3381.	1-(p-OCH_3-phenoxy)-1H-pyrrol-3-yl
3382.	1-(o-OCF_3-phenoxy)-1H-pyrrol-3-yl
3383.	1-(m-OCF_3-phenoxy)-1H-pyrrol-3-yl
3384.	1-(p-OCF_3-phenoxy)-1H-pyrrol-3-yl

no.	R^3-A-
3385.	1-(o-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3386.	1-(m-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3387.	1-(p-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3388.	1-[o-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3389.	1-[m-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3390.	1-[p-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3391.	1-(2,3-dicyanophenoxy)-1H-pyrrol-3-yl
3392.	1-(2,4-dicyanophenoxy)-1H-pyrrol-3-yl
3393.	1-(2,5-dicyanophenoxy)-1H-pyrrol-3-yl
3394.	1-(2,6-dicyanophenoxy)-1H-pyrrol-3-yl
3395.	1-(3,4-dicyanophenoxy)-1H-pyrrol-3-yl
3396.	1-(3,5-dicyanophenoxy)-1H-pyrrol-3-yl
3397.	1-(2,3-difluorophenoxy)-1H-pyrrol-3-yl
3398.	1-(2,4-difluorophenoxy)-1H-pyrrol-3-yl
3399.	1-(2,5-difluorophenoxy)-1H-pyrrol-3-yl
3400.	1-(2,6-difluorophenoxy)-1H-pyrrol-3-yl
3401.	1-(3,4-difluorophenoxy)-1H-pyrrol-3-yl
3402.	1-(3,5-difluorophenoxy)-1H-pyrrol-3-yl
3403.	1-(2,3-dichlorophenoxy)-1H-pyrrol-3-yl
3404.	1-(2,4-dichlorophenoxy)-1H-pyrrol-3-yl

no.	R^3-A-
3405.	1-(2,5-dichlorophenoxy)-1H-pyrrol-3-yl
3406.	1-(2,6-dichlorophenoxy)-1H-pyrrol-3-yl
3407.	1-(3,4-dichlorophenoxy)-1H-pyrrol-3-yl
3408.	1-(3,5-dichlorophenoxy)-1H-pyrrol-3-yl
3409.	1-(2,3-dibromophenoxy)-1H-pyrrol-3-yl
3410.	1-(2,4-dibromophenoxy)-1H-pyrrol-3-yl
3411.	1-(2,5-dibromophenoxy)-1H-pyrrol-3-yl
3412.	1-(2,6-dibromophenoxy)-1H-pyrrol-3-yl
3413.	1-(3,4-dibromophenoxy)-1H-pyrrol-3-yl
3414.	1-(3,5-dibromophenoxy)-1H-pyrrol-3-yl
3415.	1-(2,3-dimethylphenoxy)-1H-pyrrol-3-yl
3416.	1-(2,4-dimethylphenoxy)-1H-pyrrol-3-yl
3417.	1-(2,5-dimethylphenoxy)-1H-pyrrol-3-yl
3418.	1-(2,6-dimethylphenoxy)-1H-pyrrol-3-yl
3419.	1-(3,4-dimethylphenoxy)-1H-pyrrol-3-yl
3420.	1-(3,5-dimethylphenoxy)-1H-pyrrol-3-yl
3421.	1-[2,3-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3422.	1-[2,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3423.	1-[2,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3424.	1-[2,6-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3425.	1-[3,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3426.	1-[3,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3427.	1-(2,3-dimethoxyphenoxy)-1H-pyrrol-3-yl
3428.	1-(2,4-dimethoxyphenoxy)-1H-pyrrol-3-yl
3429.	1-(2,5-dimethoxyphenoxy)-1H-pyrrol-3-yl
3430.	1-(2,6-dimethoxyphenoxy)-1H-pyrrol-3-yl
3431.	1-(3,4-dimethoxyphenoxy)-1H-pyrrol-3-yl
3432.	1-(3,5-dimethoxyphenoxy)-1H-pyrrol-3-yl
3433.	1-methyl-5-(o-CN-phenyl)-1H-pyrrol-3-yl
3434.	1-methyl-5-(m-CN-phenyl)-1H-pyrrol-3-yl
3435.	1-methyl-5-(p-CN-phenyl)-1H-pyrrol-3-yl
3436.	1-methyl-5-(o-NO_2-phenyl)-1H-pyrrol-3-yl
3437.	1-methyl-5-(m-NO_2-phenyl)-1H-pyrrol-3-yl
3438.	1-methyl-5-(p-NO_2-phenyl)-1H-pyrrol-3-yl
3439.	1-methyl-5-(o-F-phenyl)-1H-pyrrol-3-yl
3440.	1-methyl-5-(m-F-phenyl)-1H-pyrrol-3-yl
3441.	1-methyl-5-(p-F-phenyl)-1H-pyrrol-3-yl
3442.	1-methyl-5-(o-Cl-phenyl)-1H-pyrrol-3-yl
3443.	1-methyl-5-(m-Cl-phenyl)-1H-pyrrol-3-yl
3444.	1-methyl-5-(p-Cl-phenyl)-1H-pyrrol-3-yl

no.	R^3-A-
3445.	1-methyl-5-(o-Br-phenyl)-1H-pyrrol-3-yl
3446.	1-methyl-5-(m-Br-phenyl)-1H-pyrrol-3-yl
3447.	1-methyl-5-(p-Br-phenyl)-1H-pyrrol-3-yl
3448.	1-methyl-5-(o-CH_3-phenyl)-1H-pyrrol-3-yl
3449.	1-methyl-5-(m-CH_3-phenyl)-1H-pyrrol-3-yl
3450.	1-methyl-5-(p-CH_3-phenyl)-1H-pyrrol-3-yl
3451.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrrol-3-yl
3452.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrrol-3-yl
3453.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrrol-3-yl
3454.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrrol-3-yl
3455.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrrol-3-yl
3456.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrrol-3-yl
3457.	1-methyl-5-(o-OCH_3-phenyl)-1H-pyrrol-3-yl
3458.	1-methyl-5-(m-OCH_3-phenyl)-1H-pyrrol-3-yl
3459.	1-methyl-5-(p-OCH_3-phenyl)-1H-pyrrol-3-yl
3460.	1-methyl-5-(o-OCF_3-phenyl)-1H-pyrrol-3-yl
3461.	1-methyl-5-(m-OCF_3-phenyl)-1H-pyrrol-3-yl
3462.	1-methyl-5-(p-OCF_3-phenyl)-1H-pyrrol-3-yl
3463.	1-methyl-5-(o-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3464.	1-methyl-5-(m-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3465.	1-methyl-5-(p-$COOCH_3$-phenyl)-1H-pyrrol-3-yl
3466.	1-methyl-5-[o-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3467.	1-methyl-5-[m-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3468.	1-methyl-5-[p-$N(CH_3)_2$-phenyl]-1H-pyrrol-3-yl
3469.	1-methyl-5-(2,3-dicyanophenyl)-1H-pyrrol-3-yl
3470.	1-methyl-5-(2,4-dicyanophenyl)-1H-pyrrol-3-yl
3471.	1-methyl-5-(2,5-dicyanophenyl)-1H-pyrrol-3-yl
3472.	1-methyl-5-(2,6-dicyanophenyl)-1H-pyrrol-3-yl
3473.	1-methyl-5-(3,4-dicyanophenyl)-1H-pyrrol-3-yl
3474.	1-methyl-5-(3,5-dicyanophenyl)-1H-pyrrol-3-yl
3475.	1-methyl-5-(2,3-difluorophenyl)-1H-pyrrol-3-yl
3476.	1-methyl-5-(2,4-difluorophenyl)-1H-pyrrol-3-yl
3477.	1-methyl-5-(2,5-difluorophenyl)-1H-pyrrol-3-yl
3478.	1-methyl-5-(2,6-difluorophenyl)-1H-pyrrol-3-yl
3479.	1-methyl-5-(3,4-difluorophenyl)-1H-pyrrol-3-yl
3480.	1-methyl-5-(3,5-difluorophenyl)-1H-pyrrol-3-yl
3481.	1-methyl-5-(2,3-dichlorophenyl)-1H-pyrrol-3-yl
3482.	1-methyl-5-(2,4-dichlorophenyl)-1H-pyrrol-3-yl
3483.	1-methyl-5-(2,5-dichlorophenyl)-1H-pyrrol-3-yl
3484.	1-methyl-5-(2,6-dichlorophenyl)-1H-pyrrol-3-yl

no.	R^3-A-
3485.	1-methyl-5-(3,4-dichlorophenyl)-1H-pyrrol-3-yl
3486.	1-methyl-5-(3,5-dichlorophenyl)-1H-pyrrol-3-yl
3487.	1-methyl-5-(2,3-dibromophenyl)-1H-pyrrol-3-yl
3488.	1-methyl-5-(2,4-dibromophenyl)-1H-pyrrol-3-yl
3489.	1-methyl-5-(2,5-dibromophenyl)-1H-pyrrol-3-yl
3490.	1-methyl-5-(2,6-dibromophenyl)-1H-pyrrol-3-yl
3491.	1-methyl-5-(3,4-dibromophenyl)-1H-pyrrol-3-yl
3492.	1-methyl-5-(3,5-dibromophenyl)-1H-pyrrol-3-yl
3493.	1-methyl-5-(2,3-dimethylphenyl)-1H-pyrrol-3-yl
3494.	1-methyl-5-(2,4-dimethylphenyl)-1H-pyrrol-3-yl
3495.	1-methyl-5-(2,5-dimethylphenyl)-1H-pyrrol-3-yl
3496.	1-methyl-5-(2,6-dimethylphenyl)-1H-pyrrol-3-yl
3497.	1-methyl-5-(3,4-dimethylphenyl)-1H-pyrrol-3-yl
3498.	1-methyl-5-(3,5-dimethylphenyl)-1H-pyrrol-3-yl
3499.	1-methyl-5-[2,3-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl
3500.	1-methyl-5-[2,4-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl
3501.	1-methyl-5-[2,5-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl
3502.	1-methyl-5-[2,6-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl
3503.	1-methyl-5-[3,4-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl
3504.	1-methyl-5-[3,5-di(trifluoro-methyl)phenyl]-1H-pyrrol-3-yl

no.	R^3-A-
3505.	1-methyl-5-(2,3-dimethoxy-phenyl)-1H-pyrrol-3-yl
3506.	1-methyl-5-(2,4-dimethoxy-phenyl)-1H-pyrrol-3-yl
3507.	1-methyl-5-(2,5-dimethoxy-phenyl)-1H-pyrrol-3-yl
3508.	1-methyl-5-(2,6-dimethoxyphenyl)-1H-pyrrol-3-yl
3509.	1-methyl-5-(3,4-dimethoxy-phenyl)-1H-pyrrol-3-yl
3510.	1-methyl-5-(3,5-dimethoxy-phenyl)-1H-pyrrol-3-yl
3511.	1-methyl-5-(o-CN-phenoxy)-1H-pyrrol-3-yl
3512.	1-methyl-5-(m-CN-phenoxy)-1H-pyrrol-3-yl
3513.	1-methyl-5-(p-CN-phenoxy)-1H-pyrrol-3-yl
3514.	1-methyl-5-(o-NO_2-phenoxy)-1H-pyrrol-3-yl
3515.	1-methyl-5-(m-NO_2-phenoxy)-1H-pyrrol-3-yl
3516.	1-methyl-5-(p-NO_2-phenoxy)-1H-pyrrol-3-yl
3517.	1-methyl-5-(o-F-phenoxy)-1H-pyrrol-3-yl
3518.	1-methyl-5-(m-F-phenoxy)-1H-pyrrol-3-yl
3519.	1-methyl-5-(p-F-phenoxy)-1H-pyrrol-3-yl
3520.	1-methyl-5-(o-Cl-phenoxy)-1H-pyrrol-3-yl
3521.	1-methyl-5-(m-Cl-phenoxy)-1H-pyrrol-3-yl
3522.	1-methyl-5-(p-Cl-phenoxy)-1H-pyrrol-3-yl
3523.	1-methyl-5-(o-Br-phenoxy)-1H-pyrrol-3-yl
3524.	1-methyl-5-(m-Br-phenoxy)-1H-pyrrol-3-yl

no.	R^3-A-
3525.	1-methyl-5-(p-Br-phenoxy)-1H-pyrrol-3-yl
3526.	1-methyl-5-(o-CH_3-phenoxy)-1H-pyrrol-3-yl
3527.	1-methyl-5-(m-CH_3-phenoxy)-1H-pyrrol-3-yl
3528.	1-methyl-5-(p-CH_3-phenoxy)-1H-pyrrol-3-yl
3529.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrrol-3-yl
3530.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrrol-3-yl
3531.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrrol-3-yl
3532.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrrol-3-yl
3533.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrrol-3-yl
3534.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrrol-3-yl
3535.	1-methyl-5-(o-OCH_3-phenoxy)-1H-pyrrol-3-yl
3536.	1-methyl-5-(m-OCH_3-phenoxy)-1H-pyrrol-3-yl
3537.	1-methyl-5-(p-OCH_3-phenoxy)-1H-pyrrol-3-yl
3538.	1-methyl-5-(o-OCF_3-phenoxy)-1H-pyrrol-3-yl
3539.	1-methyl-5-(m-OCF_3-phenoxy)-1H-pyrrol-3-yl
3540.	1-methyl-5-(p-OCF_3-phenoxy)-1H-pyrrol-3-yl
3541.	1-methyl-5-(o-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3542.	1-methyl-5-(m-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3543.	1-methyl-5-(p-$COOCH_3$-phenoxy)-1H-pyrrol-3-yl
3544.	1-methyl-5-[o-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3545.	1-methyl-5-[m-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3546.	1-methyl-5-[p-$N(CH_3)_2$-phenoxy]-1H-pyrrol-3-yl
3547.	1-methyl-5-(2,3-dicyanophenoxy)-1H-pyrrol-3-yl
3548.	1-methyl-5-(2,4-dicyanophenoxy)-1H-pyrrol-3-yl
3549.	1-methyl-5-(2,5-dicyanophenoxy)-1H-pyrrol-3-yl
3550.	1-methyl-5-(2,6-dicyanophenoxy)-1H-pyrrol-3-yl
3551.	1-methyl-5-(3,4-dicyanophenoxy)-1H-pyrrol-3-yl
3552.	1-methyl-5-(3,5-dicyanophenoxy)-1H-pyrrol-3-yl
3553.	1-methyl-5-(2,3-difluorophenoxy)-1H-pyrrol-3-yl
3554.	1-methyl-5-(2,4-difluorophenoxy)-1H-pyrrol-3-yl
3555.	1-methyl-5-(2,5-difluorophenoxy)-1H-pyrrol-3-yl
3556.	1-methyl-5-(2,6-difluorophenoxy)-1H-pyrrol-3-yl
3557.	1-methyl-5-(3,4-difluorophenoxy)-1H-pyrrol-3-yl
3558.	1-methyl-5-(3,5-difluorophenoxy)-1H-pyrrol-3-yl
3559.	1-methyl-5-(2,3-dichlorophenoxy)-1H-pyrrol-3-yl
3560.	1-methyl-5-(2,4-dichlorophenoxy)-1H-pyrrol-3-yl
3561.	1-methyl-5-(2,5-dichlorophenoxy)-1H-pyrrol-3-yl
3562.	1-methyl-5-(2,6-dichlorophenoxy)-1H-pyrrol-3-yl
3563.	1-methyl-5-(3,4-dichlorophenoxy)-1H-pyrrol-3-yl
3564.	1-methyl-5-(3,5-dichlorophenoxy)-1H-pyrrol-3-yl

no.	R^3-A-
3565.	1-methyl-5-(2,3-dibromophenoxy)-1H-pyrrol-3-yl
3566.	1-methyl-5-(2,4-dibromophenoxy)-1H-pyrrol-3-yl
3567.	1-methyl-5-(2,5-dibromophenoxy)-1H-pyrrol-3-yl
3568.	1-methyl-5-(2,6-dibromophenoxy)-1H-pyrrol-3-yl
3569.	1-methyl-5-(3,4-dibromophenoxy)-1H-pyrrol-3-yl
3570.	1-methyl-5-(3,5-dibromophenoxy)-1H-pyrrol-3-yl
3571.	1-methyl-5-(2,3-dimethylphenoxy)-1H-pyrrol-3-yl
3572.	1-methyl-5-(2,4-dimethylphenoxy)-1H-pyrrol-3-yl
3573.	1-methyl-5-(2,5-dimethylphenoxy)-1H-pyrrol-3-yl
3574.	1-methyl-5-(2,6-dimethylphenoxy)-1H-pyrrol-3-yl
3575.	1-methyl-5-(3,4-dimethylphenoxy)-1H-pyrrol-3-yl
3576.	1-methyl-5-(3,5-dimethylphenoxy)-1H-pyrrol-3-yl
3577.	1-methyl-5-[2,3-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3578.	1-methyl-5-[2,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3579.	1-methyl-5-[2,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3580.	1-methyl-5-[2,6-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3581.	1-methyl-5-[3,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3582.	1-methyl-5-[3,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-3-yl
3583.	1-methyl-5-(2,3-dimethoxyphenoxy)-1H-pyrrol-3-yl
3584.	1-methyl-5-(2,4-dimethoxyphenoxy)-1H-pyrrol-3-yl
3585.	1-methyl-5-(2,5-dimethoxyphenoxy)-1H-pyrrol-3-yl
3586.	1-methyl-5-(2,6-dimethoxyphenoxy)-1H-pyrrol-3-yl
3587.	1-methyl-5-(3,4-dimethoxyphenoxy)-1H-pyrrol-3-yl
3588.	1-methyl-5-(3,5-dimethoxyphenoxy)-1H-pyrrol-3-yl
3589.	1-methyl-5-(o-CN-phenyl)-1H-pyrrol-2-yl
3590.	1-methyl-5-(m-CN-phenyl)-1H-pyrrol-2-yl
3591.	1-methyl-5-(p-CN-phenyl)-1H-pyrrol-2-yl
3592.	1-methyl-5-(o-NO_2-phenyl)-1H-pyrrol-2-yl
3593.	1-methyl-5-(m-NO_2-phenyl)-1H-pyrrol-2-yl
3594.	1-methyl-5-(p-NO_2-phenyl)-1H-pyrrol-2-yl
3595.	1-methyl-5-(o-F-phenyl)-1H-pyrrol-2-yl
3596.	1-methyl-5-(m-F-phenyl)-1H-pyrrol-2-yl
3597.	1-methyl-5-(p-F-phenyl)-1H-pyrrol-2-yl
3598.	1-methyl-5-(o-Cl-phenyl)-1H-pyrrol-2-yl
3599.	1-methyl-5-(m-Cl-phenyl)-1H-pyrrol-2-yl
3600.	1-methyl-5-(p-Cl-phenyl)-1H-pyrrol-2-yl
3601.	1-methyl-5-(o-Br-phenyl)-1H-pyrrol-2-yl
3602.	1-methyl-5-(m-Br-phenyl)-1H-pyrrol-2-yl
3603.	1-methyl-5-(p-Br-phenyl)-1H-pyrrol-2-yl

no.	R^3-A-
3604.	1-methyl-5-(o-CH_3-phenyl)-1H-pyrrol-2-yl
3605.	1-methyl-5-(m-CH_3-phenyl)-1H-pyrrol-2-yl
3606.	1-methyl-5-(p-CH_3-phenyl)-1H-pyrrol-2-yl
3607.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrrol-2-yl
3608.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrrol-2-yl
3609.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrrol-2-yl
3610.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrrol-2-yl
3611.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrrol-2-yl
3612.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrrol-2-yl
3613.	1-methyl-5-(o-OCH_3-phenyl)-1H-pyrrol-2-yl
3614.	1-methyl-5-(m-OCH_3-phenyl)-1H-pyrrol-2-yl
3615.	1-methyl-5-(p-OCH_3-phenyl)-1H-pyrrol-2-yl
3616.	1-methyl-5-(o-OCF_3-phenyl)-1H-pyrrol-2-yl
3617.	1-methyl-5-(m-OCF_3-phenyl)-1H-pyrrol-2-yl
3618.	1-methyl-5-(p-OCF_3-phenyl)-1H-pyrrol-2-yl
3619.	1-methyl-5-(o-$COOCH_3$-phenyl)-1H-pyrrol-2-yl
3620.	1-methyl-5-(m-$COOCH_3$-phenyl)-1H-pyrrol-2-yl
3621.	1-methyl-5-(p-$COOCH_3$-phenyl)-1H-pyrrol-2-yl
3622.	1-methyl-5-[o-$N(CH_3)_2$-phenyl]-1H-pyrrol-2-yl
3623.	1-methyl-5-[m-$N(CH_3)_2$-phenyl]-1H-pyrrol-2-yl
3624.	1-methyl-5-[p-$N(CH_3)_2$-phenyl]-1H-pyrrol-2-yl
3625.	1-methyl-5-(2,3-dicyanophenyl)-1H-pyrrol-2-yl
3626.	1-methyl-5-(2,4-dicyanophenyl)-1H-pyrrol-2-yl
3627.	1-methyl-5-(2,5-dicyanophenyl)-1H-pyrrol-2-yl
3628.	1-methyl-5-(2,6-dicyanophenyl)-1H-pyrrol-2-yl
3629.	1-methyl-5-(3,4-dicyanophenyl)-1H-pyrrol-2-yl
3630.	1-methyl-5-(3,5-dicyanophenyl)-1H-pyrrol-2-yl
3631.	1-methyl-5-(2,3-difluorophenyl)-1H-pyrrol-2-yl
3632.	1-methyl-5-(2,4-difluorophenyl)-1H-pyrrol-2-yl
3633.	1-methyl-5-(2,5-difluorophenyl)-1H-pyrrol-2-yl
3634.	1-methyl-5-(2,6-difluorophenyl)-1H-pyrrol-2-yl
3635.	1-methyl-5-(3,4-difluorophenyl)-1H-pyrrol-2-yl
3636.	1-methyl-5-(3,5-difluorophenyl)-1H-pyrrol-2-yl
3637.	1-methyl-5-(2,3-dichlorophenyl)-1H-pyrrol-2-yl
3638.	1-methyl-5-(2,4-dichlorophenyl)-1H-pyrrol-2-yl
3639.	1-methyl-5-(2,5-dichlorophenyl)-1H-pyrrol-2-yl
3640.	1-methyl-5-(2,6-dichlorophenyl)-1H-pyrrol-2-yl
3641.	1-methyl-5-(3,4-dichlorophenyl)-1H-pyrrol-2-yl
3642.	1-methyl-5-(3,5-dichlorophenyl)-1H-pyrrol-2-yl
3643.	1-methyl-5-(2,3-dibromophenyl)-1H-pyrrol-2-yl

no.	R^3-A-
3644.	1-methyl-5-(2,4-dibromophenyl)-1H-pyrrol-2-yl
3645.	1-methyl-5-(2,5-dibromophenyl)-1H-pyrrol-2-yl
3646.	1-methyl-5-(2,6-dibromophenyl)-1H-pyrrol-2-yl
3647.	1-methyl-5-(3,4-dibromophenyl)-1H-pyrrol-2-yl
3648.	1-methyl-5-(3,5-dibromophenyl)-1H-pyrrol-2-yl
3649.	1-methyl-5-(2,3-dimethylphenyl)-1H-pyrrol-2-yl
3650.	1-methyl-5-(2,4-dimethylphenyl)-1H-pyrrol-2-yl
3651.	1-methyl-5-(2,5-dimethylphenyl)-1H-pyrrol-2-yl
3652.	1-methyl-5-(2,6-dimethylphenyl)-1H-pyrrol-2-yl
3653.	1-methyl-5-(3,4-dimethylphenyl)-1H-pyrrol-2-yl
3654.	1-methyl-5-(3,5-dimethylphenyl)-1H-pyrrol-2-yl
3655.	1-methyl-5-[2,3-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3656.	1-methyl-5-[2,4-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3657.	1-methyl-5-[2,5-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3658.	1-methyl-5-[2,6-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3659.	1-methyl-5-[3,4-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3660.	1-methyl-5-[3,5-di(trifluoro-methyl)phenyl]-1H-pyrrol-2-yl
3661.	1-methyl-5-(2,3-dimethoxy-phenyl)-1H-pyrrol-2-yl
3662.	1-methyl-5-(2,4-dimethoxyphenyl)-1H-pyrrol-2-yl
3663.	1-methyl-5-(2,5-dimethoxyphenyl)-1H-pyrrol-2-yl
3664.	1-methyl-5-(2,6-dimethoxyphenyl)-1H-pyrrol-2-yl
3665.	1-methyl-5-(3,4-dimethoxyphenyl)-1H-pyrrol-2-yl
3666.	1-methyl-5-(3,5-dimethoxyphenyl)-1H-pyrrol-2-yl
3667.	1-methyl-5-(o-CN-phenoxy)-1H-pyrrol-2-yl
3668.	1-methyl-5-(m-CN-phenoxy)-1H-pyrrol-2-yl
3669.	1-methyl-5-(p-CN-phenoxy)-1H-pyrrol-2-yl
3670.	1-methyl-5-(o-NO_2-phenoxy)-1H-pyrrol-2-yl
3671.	1-methyl-5-(m-NO_2-phenoxy)-1H-pyrrol-2-yl
3672.	1-methyl-5-(p-NO_2-phenoxy)-1H-pyrrol-2-yl
3673.	1-methyl-5-(o-F-phenoxy)-1H-pyrrol-2-yl
3674.	1-methyl-5-(m-F-phenoxy)-1H-pyrrol-2-yl
3675.	1-methyl-5-(p-F-phenoxy)-1H-pyrrol-2-yl
3676.	1-methyl-5-(o-Cl-phenoxy)-1H-pyrrol-2-yl
3677.	1-methyl-5-(m-Cl-phenoxy)-1H-pyrrol-2-yl
3678.	1-methyl-5-(p-Cl-phenoxy)-1H-pyrrol-2-yl
3679.	1-methyl-5-(o-Br-phenoxy)-1H-pyrrol-2-yl
3680.	1-methyl-5-(m-Br-phenoxy)-1H-pyrrol-2-yl
3681.	1-methyl-5-(p-Br-phenoxy)-1H-pyrrol-2-yl
3682.	1-methyl-5-(o-CH_3-phenoxy)-1H-pyrrol-2-yl
3683.	1-methyl-5-(m-CH_3-phenoxy)-1H-pyrrol-2-yl

no.	R^3-A-
3684.	1-methyl-5-(p-CH_3-phenoxy)-1H-pyrrol-2-yl
3685.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrrol-2-yl
3686.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrrol-2-yl
3687.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrrol-2-yl
3688.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrrol-2-yl
3689.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrrol-2-yl
3690.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrrol-2-yl
3691.	1-methyl-5-(o-OCH_3-phenoxy)-1H-pyrrol-2-yl
3692.	1-methyl-5-(m-OCH_3-phenoxy)-1H-pyrrol-2-yl
3693.	1-methyl-5-(p-OCH_3-phenoxy)-1H-pyrrol-2-yl
3694.	1-methyl-5-(o-OCF_3-phenoxy)-1H-pyrrol-2-yl
3695.	1-methyl-5-(m-OCF_3-phenoxy)-1H-pyrrol-2-yl
3696.	1-methyl-5-(p-OCF_3-phenoxy)-1H-pyrrol-2-yl
3697.	1-methyl-5-(o-$COOCH_3$-phenoxy)-1H-pyrrol-2-yl
3698.	1-methyl-5-(m-$COOCH_3$-phenoxy)-1H-pyrrol-2-yl
3699.	1-methyl-5-(p-$COOCH_3$-phenoxy)-1H-pyrrol-2-yl
3700.	1-methyl-5-[o-$N(CH_3)_2$-phenoxy]-1H-pyrrol-2-yl
3701.	1-methyl-5-[m-$N(CH_3)_2$-phenoxy]-1H-pyrrol-2-yl
3702.	1-methyl-5-[p-$N(CH_3)_2$-phenoxy]-1H-pyrrol-2-yl
3703.	1-methyl-5-(2,3-dicyanophenoxy)-1H-pyrrol-2-yl
3704.	1-methyl-5-(2,4-dicyanophenoxy)-1H-pyrrol-2-yl
3705.	1-methyl-5-(2,5-dicyanophenoxy)-1H-pyrrol-2-yl
3706.	1-methyl-5-(2,6-dicyanophenoxy)-1H-pyrrol-2-yl
3707.	1-methyl-5-(3,4-dicyanophenoxy)-1H-pyrrol-2-yl
3708.	1-methyl-5-(3,5-dicyanophenoxy)-1H-pyrrol-2-yl
3709.	1-methyl-5-(2,3-difluorophenoxy)-1H-pyrrol-2-yl
3710.	1-methyl-5-(2,4-difluorophenoxy)-1H-pyrrol-2-yl
3711.	1-methyl-5-(2,5-difluorophenoxy)-1H-pyrrol-2-yl
3712.	1-methyl-5-(2,6-difluorophenoxy)-1H-pyrrol-2-yl
3713.	1-methyl-5-(3,4-difluorophenoxy)-1H-pyrrol-2-yl
3714.	1-methyl-5-(3,5-difluorophenoxy)-1H-pyrrol-2-yl
3715.	1-methyl-5-(2,3-dichlorophenoxy)-1H-pyrrol-2-yl
3716.	1-methyl-5-(2,4-dichlorophenoxy)-1H-pyrrol-2-yl
3717.	1-methyl-5-(2,5-dichlorophenoxy)-1H-pyrrol-2-yl
3718.	1-methyl-5-(2,6-dichlorophenoxy)-1H-pyrrol-2-yl
3719.	1-methyl-5-(3,4-dichlorophenoxy)-1H-pyrrol-2-yl
3720.	1-methyl-5-(3,5-dichlorophenoxy)-1H-pyrrol-2-yl
3721.	1-methyl-5-(2,3-dibromophenoxy)-1H-pyrrol-2-yl
3722.	1-methyl-5-(2,4-dibromophenoxy)-1H-pyrrol-2-yl
3723.	1-methyl-5-(2,5-dibromophenoxy)-1H-pyrrol-2-yl

no.	R^3-A-
3724.	1-methyl-5-(2,6-dibromophenoxy)-1H-pyrrol-2-yl
3725.	1-methyl-5-(3,4-dibromophenoxy)-1H-pyrrol-2-yl
3726.	1-methyl-5-(3,5-dibromophenoxy)-1H-pyrrol-2-yl
3727.	1-methyl-5-(2,3-dimethylphenoxy)-1H-pyrrol-2-yl
3728.	1-methyl-5-(2,4-dimethylphenoxy)-1H-pyrrol-2-yl
3729.	1-methyl-5-(2,5-dimethylphenoxy)-1H-pyrrol-2-yl
3730.	1-methyl-5-(2,6-dimethylphenoxy)-1H-pyrrol-2-yl
3731.	1-methyl-5-(3,4-dimethylphenoxy)-1H-pyrrol-2-yl
3732.	1-methyl-5-(3,5-dimethylphenoxy)-1H-pyrrol-2-yl
3733.	1-methyl-5-[2,3-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3734.	1-methyl-5-[2,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3735.	1-methyl-5-[2,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3736.	1-methyl-5-[2,6-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3737.	1-methyl-5-[3,4-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3738.	1-methyl-5-[3,5-di(trifluoromethyl)phenoxy]-1H-pyrrol-2-yl
3739.	1-methyl-5-(2,3-dimethoxyphenoxy)-1H-pyrrol-2-yl
3740.	1-methyl-5-(2,4-dimethoxyphenoxy)-1H-pyrrol-2-yl
3741.	1-methyl-5-(2,5-dimethoxyphenoxy)-1H-pyrrol-2-yl
3742.	1-methyl-5-(2,6-dimethoxyphenoxy)-1H-pyrrol-2-yl
3743.	1-methyl-5-(3,4-dimethoxyphenoxy)-1H-pyrrol-2-yl
3744.	1-methyl-5-(3,5-dimethoxyphenoxy)-1H-pyrrol-2-yl
3745.	1-methyl-5-(o-CN-phenyl)-1H-pyrazol-3-yl
3746.	1-methyl-5-(m-CN-phenyl)-1H-pyrazol-3-yl
3747.	1-methyl-5-(p-CN-phenyl)-1H-pyrazol-3-yl
3748.	1-methyl-5-(o-NO_2-phenyl)-1H-pyrazol-3-yl
3749.	1-methyl-5-(m-NO_2-phenyl)-1H-pyrazol-3-yl
3750.	1-methyl-5-(p-NO_2-phenyl)-1H-pyrazol-3-yl
3751.	1-methyl-5-(o-F-phenyl)-1H-pyrazol-3-yl
3752.	1-methyl-5-(m-F-phenyl)-1H-pyrazol-3-yl
3753.	1-methyl-5-(p-F-phenyl)-1H-pyrazol-3-yl
3754.	1-methyl-5-(o-Cl-phenyl)-1H-pyrazol-3-yl
3755.	1-methyl-5-(m-Cl-phenyl)-1H-pyrazol-3-yl
3756.	1-methyl-5-(p-Cl-phenyl)-1H-pyrazol-3-yl
3757.	1-methyl-5-(o-Br-phenyl)-1H-pyrazol-3-yl
3758.	1-methyl-5-(m-Br-phenyl)-1H-pyrazol-3-yl
3759.	1-methyl-5-(p-Br-phenyl)-1H-pyrazol-3-yl
3760.	1-methyl-5-(o-CH_3-phenyl)-1H-pyrazol-3-yl
3761.	1-methyl-5-(m-CH_3-phenyl)-1H-pyrazol-3-yl
3762.	1-methyl-5-(p-CH_3-phenyl)-1H-pyrazol-3-yl

no.	R^3-A-
3763.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrazol-3-yl
3764.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrazol-3-yl
3765.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrazol-3-yl
3766.	1-methyl-5-(o-CF_3-phenyl)-1H-pyrazol-3-yl
3767.	1-methyl-5-(m-CF_3-phenyl)-1H-pyrazol-3-yl
3768.	1-methyl-5-(p-CF_3-phenyl)-1H-pyrazol-3-yl
3769.	1-methyl-5-(o-OCH_3-phenyl)-1H-pyrazol-3-yl
3770.	1-methyl-5-(m-OCH_3-phenyl)-1H-pyrazol-3-yl
3771.	1-methyl-5-(p-OCH_3-phenyl)-1H-pyrazol-3-yl
3772.	1-methyl-5-(o-OCF_3-phenyl)-1H-pyrazol-3-yl
3773.	1-methyl-5-(m-OCF_3-phenyl)-1H-pyrazol-3-yl
3774.	1-methyl-5-(p-OCF_3-phenyl)-1H-pyrazol-3-yl
3775.	1-methyl-5-(o-$COOCH_3$-phenyl)-1H-pyrazol-3-yl
3776.	1-methyl-5-(m-$COOCH_3$-phenyl)-1H-pyrazol-3-yl
3777.	1-methyl-5-(p-$COOCH_3$-phenyl)-1H-pyrazol-3-yl
3778.	1-methyl-5-[o-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
3779.	1-methyl-5-[m-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
3780.	1-methyl-5-[p-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
3781.	1-methyl-5-(2,3-dicyanophenyl)-1H-pyrazol-3-yl
3782.	1-methyl-5-(2,4-dicyanophenyl)-1H-pyrazol-3-yl
3783.	1-methyl-5-(2,5-dicyanophenyl)-1H-pyrazol-3-yl
3784.	1-methyl-5-(2,6-dicyanophenyl)-1H-pyrazol-3-yl
3785.	1-methyl-5-(3,4-dicyanophenyl)-1H-pyrazol-3-yl
3786.	1-methyl-5-(3,5-dicyanophenyl)-1H-pyrazol-3-yl
3787.	1-methyl-5-(2,3-difluorophenyl)-1H-pyrazol-3-yl
3788.	1-methyl-5-(2,4-difluorophenyl)-1H-pyrazol-3-yl
3789.	1-methyl-5-(2,5-difluorophenyl)-1H-pyrazol-3-yl
3790.	1-methyl-5-(2,6-difluorophenyl)-1H-pyrazol-3-yl
3791.	1-methyl-5-(3,4-difluorophenyl)-1H-pyrazol-3-yl
3792.	1-methyl-5-(3,5-difluorophenyl)-1H-pyrazol-3-yl
3793.	1-methyl-5-(2,3-dichlorophenyl)-1H-pyrazol-3-yl
3794.	1-methyl-5-(2,4-dichlorophenyl)-1H-pyrazol-3-yl
3795.	1-methyl-5-(2,5-dichlorophenyl)-1H-pyrazol-3-yl
3796.	1-methyl-5-(2,6-dichlorophenyl)-1H-pyrazol-3-yl
3797.	1-methyl-5-(3,4-dichlorophenyl)-1H-pyrazol-3-yl
3798.	1-methyl-5-(3,5-dichlorophenyl)-1H-pyrazol-3-yl
3799.	1-methyl-5-(2,3-dibromophenyl)-1H-pyrazol-3-yl
3800.	1-methyl-5-(2,4-dibromophenyl)-1H-pyrazol-3-yl
3801.	1-methyl-5-(2,5-dibromophenyl)-1H-pyrazol-3-yl
3802.	1-methyl-5-(2,6-dibromophenyl)-1H-pyrazol-3-yl

no.	R^3-A-
3803.	1-methyl-5-(3,4-dibromophenyl)-1H-pyrazol-3-yl
3804.	1-methyl-5-(3,5-dibromophenyl)-1H-pyrazol-3-yl
3805.	1-methyl-5-(2,3-dimethylphenyl)-1H-pyrazol-3-yl
3806.	1-methyl-5-(2,4-dimethylphenyl)-1H-pyrazol-3-yl
3807.	1-methyl-5-(2,5-dimethylphenyl)-1H-pyrazol-3-yl
3808.	1-methyl-5-(2,6-dimethylphenyl)-1H-pyrazol-3-yl
3809.	1-methyl-5-(3,4-dimethylphenyl)-1H-pyrazol-3-yl
3810.	1-methyl-5-(3,5-dimethylphenyl)-1H-pyrazol-3-yl
3811.	1-methyl-5-[2,3-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3812.	1-methyl-5-[2,4-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3813.	1-methyl-5-[2,5-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3814.	1-methyl-5-[2,6-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3815.	1-methyl-5-[3,4-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3816.	1-methyl-5-[3,5-di(trifluoro-methyl)phenyl]-1H-pyrazol-3-yl
3817.	1-methyl-5-(2,3-dimethoxyphenyl)-1H-pyrazol-3-yl
3818.	1-methyl-5-(2,4-dimethoxyphenyl)-1H-pyrazol-3-yl
3819.	1-methyl-5-(2,5-dimethoxyphenyl)-1H-pyrazol-3-yl
3820.	1-methyl-5-(2,6-dimethoxyphenyl)-1H-pyrazol-3-yl

no.	R^3-A-
3821.	1-methyl-5-(3,4-dimethoxyphenyl)-1H-pyrazol-3-yl
3822.	1-methyl-5-(3,5-dimethoxyphenyl)-1H-pyrazol-3-yl
3823.	1-methyl-5-(o-CN-phenoxy)-1H-pyrazol-3-yl
3824.	1-methyl-5-(m-CN-phenoxy)-1H-pyrazol-3-yl
3825.	1-methyl-5-(p-CN-phenoxy)-1H-pyrazol-3-yl
3826.	1-methyl-5-(o-NO_2-phenoxy)-1H-pyrazol-3-yl
3827.	1-methyl-5-(m-NO_2-phenoxy)-1H-pyrazol-3-yl
3828.	1-methyl-5-(p-NO_2-phenoxy)-1H-pyrazol-3-yl
3829.	1-methyl-5-(o-F-phenoxy)-1H-pyrazol-3-yl
3830.	1-methyl-5-(m-F-phenoxy)-1H-pyrazol-3-yl
3831.	1-methyl-5-(p-F-phenoxy)-1H-pyrazol-3-yl
3832.	1-methyl-5-(o-Cl-phenoxy)-1H-pyrazol-3-yl
3833.	1-methyl-5-(m-Cl-phenoxy)-1H-pyrazol-3-yl
3834.	1-methyl-5-(p-Cl-phenoxy)-1H-pyrazol-3-yl
3835.	1-methyl-5-(o-Br-phenoxy)-1H-pyrazol-3-yl
3836.	1-methyl-5-(m-Br-phenoxy)-1H-pyrazol-3-yl
3837.	1-methyl-5-(p-Br-phenoxy)-1H-pyrazol-3-yl
3838.	1-methyl-5-(o-CH_3-phenoxy)-1H-pyrazol-3-yl
3839.	1-methyl-5-(m-CH_3-phenoxy)-1H-pyrazol-3-yl

no.	R^3-A-
3840.	1-methyl-5-(p-CH_3-phenoxy)-1H-pyrazol-3-yl
3841.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrazol-3-yl
3842.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrazol-3-yl
3843.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrazol-3-yl
3844.	1-methyl-5-(o-CF_3-phenoxy)-1H-pyrazol-3-yl
3845.	1-methyl-5-(m-CF_3-phenoxy)-1H-pyrazol-3-yl
3846.	1-methyl-5-(p-CF_3-phenoxy)-1H-pyrazol-3-yl
3847.	1-methyl-5-(o-OCH_3-phenoxy)-1H-pyrazol-3-yl
3848.	1-methyl-5-(m-OCH_3-phenoxy)-1H-pyrazol-3-yl
3849.	1-methyl-5-(p-OCH_3-phenoxy)-1H-pyrazol-3-yl
3850.	1-methyl-5-(o-OCF_3-phenoxy)-1H-pyrazol-3-yl
3851.	1-methyl-5-(m-OCF_3-phenoxy)-1H-pyrazol-3-yl
3852.	1-methyl-5-(p-OCF_3-phenoxy)-1H-pyrazol-3-yl
3853.	1-methyl-5-(o-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
3854.	1-methyl-5-(m-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
3855.	1-methyl-5-(p-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
3856.	1-methyl-5-[o-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
3857.	1-methyl-5-[m-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
3858.	1-methyl-5-[p-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
3859.	1-methyl-5-(2,3-dicyanophenoxy)-1H-pyrazol-3-yl
3860.	1-methyl-5-(2,4-dicyanophenoxy)-1H-pyrazol-3-yl
3861.	1-methyl-5-(2,5-dicyanophenoxy)-1H-pyrazol-3-yl
3862.	1-methyl-5-(2,6-dicyanophenoxy)-1H-pyrazol-3-yl
3863.	1-methyl-5-(3,4-dicyanophenoxy)-1H-pyrazol-3-yl
3864.	1-methyl-5-(3,5-dicyanophenoxy)-1H-pyrazol-3-yl
3865.	1-methyl-5-(2,3-difluorophenoxy)-1H-pyrazol-3-yl
3866.	1-methyl-5-(2,4-difluorophenoxy)-1H-pyrazol-3-yl
3867.	1-methyl-5-(2,5-difluorophenoxy)-1H-pyrazol-3-yl
3868.	1-methyl-5-(2,6-difluorophenoxy)-1H-pyrazol-3-yl
3869.	1-methyl-5-(3,4-difluorophenoxy)-1H-pyrazol-3-yl
3870.	1-methyl-5-(3,5-difluorophenoxy)-1H-pyrazol-3-yl
3871.	1-methyl-5-(2,3-dichlorophenoxy)-1H-pyrazol-3-yl
3872.	1-methyl-5-(2,4-dichlorophenoxy)-1H-pyrazol-3-yl
3873.	1-methyl-5-(2,5-dichlorophenoxy)-1H-pyrazol-3-yl
3874.	1-methyl-5-(2,6-dichlorophenoxy)-1H-pyrazol-3-yl
3875.	1-methyl-5-(3,4-dichlorophenoxy)-1H-pyrazol-3-yl
3876.	1-methyl-5-(3,5-dichlorophenoxy)-1H-pyrazol-3-yl
3877.	1-methyl-5-(2,3-dibromophenoxy)-1H-pyrazol-3-yl
3878.	1-methyl-5-(2,4-dibromophenoxy)-1H-pyrazol-3-yl
3879.	1-methyl-5-(2,5-dibromophenoxy)-1H-pyrazol-3-yl

no.	R^3-A-
3880.	1-methyl-5-(2,6-dibromophenoxy)-1H-pyrazol-3-yl
3881.	1-methyl-5-(3,4-dibromophenoxy)-1H-pyrazol-3-yl
3882.	1-methyl-5-(3,5-dibromophenoxy)-1H-pyrazol-3-yl
3883.	1-methyl-5-(2,3-dimethylphenoxy)-1H-pyrazol-3-yl
3884.	1-methyl-5-(2,4-dimethylphenoxy)-1H-pyrazol-3-yl
3885.	1-methyl-5-(2,5-dimethylphenoxy)-1H-pyrazol-3-yl
3886.	1-methyl-5-(2,6-dimethylphenoxy)-1H-pyrazol-3-yl
3887.	1-methyl-5-(3,4-dimethylphenoxy)-1H-pyrazol-3-yl
3888.	1-methyl-5-(3,5-dimethylphenoxy)-1H-pyrazol-3-yl
3889.	1-methyl-5-[2,3-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3890.	1-methyl-5-[2,4-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3891.	1-methyl-5-[2,5-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3892.	1-methyl-5-[2,6-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3893.	1-methyl-5-[3,4-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3894.	1-methyl-5-[3,5-di(trifluoromethyl)phenoxy]-1H-pyrazol-3-yl
3895.	1-methyl-5-(2,3-dimethoxyphenoxy)-1H-pyrazol-3-yl
3896.	1-methyl-5-(2,4-dimethoxyphenoxy)-1H-pyrazol-3-yl
3897.	1-methyl-5-(2,5-dimethoxyphenoxy)-1H-pyrazol-3-yl
3898.	1-methyl-5-(2,6-dimethoxyphenoxy)-1H-pyrazol-3-yl
3899.	1-methyl-5-(3,4-dimethoxyphenoxy)-1H-pyrazol-3-yl
3900.	1-methyl-5-(3,5-dimethoxyphenoxy)-1H-pyrazol-3-yl
3901.	1-methyl-3-(o-CN-phenyl)-1H-pyrazol-5-yl
3902.	1-methyl-3-(m-CN-phenyl)-1H-pyrazol-5-yl
3903.	1-methyl-3-(p-CN-phenyl)-1H-pyrazol-5-yl
3904.	1-methyl-3-(o-NO_2-phenyl)-1H-pyrazol-5-yl
3905.	1-methyl-3-(m-NO_2-phenyl)-1H-pyrazol-5-yl
3906.	1-methyl-3-(p-NO_2-phenyl)-1H-pyrazol-5-yl
3907.	1-methyl-3-(o-F-phenyl)-1H-pyrazol-5-yl
3908.	1-methyl-3-(m-F-phenyl)-1H-pyrazol-5-yl
3909.	1-methyl-3-(p-F-phenyl)-1H-pyrazol-5-yl
3910.	1-methyl-3-(o-Cl-phenyl)-1H-pyrazol-5-yl
3911.	1-methyl-3-(m-Cl-phenyl)-1H-pyrazol-5-yl
3912.	1-methyl-3-(p-Cl-phenyl)-1H-pyrazol-5-yl
3913.	1-methyl-3-(o-Br-phenyl)-1H-pyrazol-5-yl
3914.	1-methyl-3-(m-Br-phenyl)-1H-pyrazol-5-yl
3915.	1-methyl-3-(p-Br-phenyl)-1H-pyrazol-5-yl
3916.	1-methyl-3-(o-CH_3-phenyl)-1H-pyrazol-5-yl

no.	R^3-A-
3917.	1-methyl-3-(m-CH_3-phenyl)-1H-pyrazol-5-yl
3918.	1-methyl-3-(p-CH_3-phenyl)-1H-pyrazol-5-yl
3919.	1-methyl-3-(o-CF_3-phenyl)-1H-pyrazol-5-yl
3920.	1-methyl-3-(m-CF_3-phenyl)-1H-pyrazol-5-yl
3921.	1-methyl-3-(p-CF_3-phenyl)-1H-pyrazol-5-yl
3922.	1-methyl-3-(o-CF_3-phenyl)-1H-pyrazol-5-yl
3923.	1-methyl-3-(m-CF_3-phenyl)-1H-pyrazol-5-yl
3924.	1-methyl-3-(p-CF_3-phenyl)-1H-pyrazol-5-yl
3925.	1-methyl-3-(o-OCH_3-phenyl)-1H-pyrazol-5-yl
3926.	1-methyl-3-(m-OCH_3-phenyl)-1H-pyrazol-5-yl
3927.	1-methyl-3-(p-OCH_3-phenyl)-1H-pyrazol-5-yl
3928.	1-methyl-3-(o-OCF_3-phenyl)-1H-pyrazol-5-yl
3929.	1-methyl-3-(m-OCF_3-phenyl)-1H-pyrazol-5-yl
3930.	1-methyl-3-(p-OCF_3-phenyl)-1H-pyrazol-5-yl
3931.	1-methyl-3-(o-$COOCH_3$-phenyl)-1H-pyrazol-5-yl
3932.	1-methyl-3-(m-$COOCH_3$-phenyl)-1H-pyrazol-5-yl
3933.	1-methyl-3-(p-$COOCH_3$-phenyl)-1H-pyrazol-5-yl
3934.	1-methyl-3-[o-$N(CH_3)_2$-phenyl]-1H-pyrazol-5-yl
3935.	1-methyl-3-[m-$N(CH_3)_2$-phenyl]-1H-pyrazol-5-yl
3936.	1-methyl-3-[p-$N(CH_3)_2$-phenyl]-1H-pyrazol-5-yl

no.	R^3-A-
3937.	1-methyl-3-(2,3-dicyanophenyl)-1H-pyrazol-5-yl
3938.	1-methyl-3-(2,4-dicyanophenyl)-1H-pyrazol-5-yl
3939.	1-methyl-3-(2,5-dicyanophenyl)-1H-pyrazol-5-yl
3940.	1-methyl-3-(2,6-dicyanophenyl)-1H-pyrazol-5-yl
3941.	1-methyl-3-(3,4-dicyanophenyl)-1H-pyrazol-5-yl
3942.	1-methyl-3-(3,5-dicyanophenyl)-1H-pyrazol-5-yl
3943.	1-methyl-3-(2,3-difluorophenyl)-1H-pyrazol-5-yl
3944.	1-methyl-3-(2,4-difluorophenyl)-1H-pyrazol-5-yl
3945.	1-methyl-3-(2,5-difluorophenyl)-1H-pyrazol-5-yl
3946.	1-methyl-3-(2,6-difluorophenyl)-1H-pyrazol-5-yl
3947.	1-methyl-3-(3,4-difluorophenyl)-1H-pyrazol-5-yl
3948.	1-methyl-3-(3,5-difluorophenyl)-1H-pyrazol-5-yl
3949.	1-methyl-3-(2,3-dichlorophenyl)-1H-pyrazol-5-yl
3950.	1-methyl-3-(2,4-dichlorophenyl)-1H-pyrazol-5-yl
3951.	1-methyl-3-(2,5-dichlorophenyl)-1H-pyrazol-5-yl
3952.	1-methyl-3-(2,6-dichlorophenyl)-1H-pyrazol-5-yl
3953.	1-methyl-3-(3,4-dichlorophenyl)-1H-pyrazol-5-yl
3954.	1-methyl-3-(3,5-dichlorophenyl)-1H-pyrazol-5-yl
3955.	1-methyl-3-(2,3-dibromophenyl)-1H-pyrazol-5-yl
3956.	1-methyl-3-(2,4-dibromophenyl)-1H-pyrazol-5-yl

no.	R^3-A-
3957.	1-methyl-3-(2,5-dibromophenyl)-1H-pyrazol-5-yl
3958.	1-methyl-3-(2,6-dibromophenyl)-1H-pyrazol-5-yl
3959.	1-methyl-3-(3,4-dibromophenyl)-1H-pyrazol-5-yl
3960.	1-methyl-3-(3,5-dibromophenyl)-1H-pyrazol-5-yl
3961.	1-methyl-3-(2,3-dimethylphenyl)-1H-pyrazol-5-yl
3962.	1-methyl-3-(2,4-dimethylphenyl)-1H-pyrazol-5-yl
3963.	1-methyl-3-(2,5-dimethylphenyl)-1H-pyrazol-5-yl
3964.	1-methyl-3-(2,6-dimethylphenyl)-1H-pyrazol-5-yl
3965.	1-methyl-3-(3,4-dimethylphenyl)-1H-pyrazol-5-yl
3966.	1-methyl-3-(3,5-dimethylphenyl)-1H-pyrazol-5-yl
3967.	1-methyl-3-[2,3-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3968.	1-methyl-3-[2,4-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3969.	1-methyl-3-[2,5-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3970.	1-methyl-3-[2,6-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3971.	1-methyl-3-[3,4-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3972.	1-methyl-3-[3,5-di(trifluoro-methyl)phenyl]-1H-pyrazol-5-yl
3973.	1-methyl-3-(2,3-dimethoxy-phenyl)-1H-pyrazol-5-yl
3974.	1-methyl-3-(2,4-dimethoxy-phenyl)-1H-pyrazol-5-yl
3975.	1-methyl-3-(2,5-dimethoxy-phenyl)-1H-pyrazol-5-yl
3976.	1-methyl-3-(2,6-dimethoxy-phenyl)-1H-pyrazol-5-yl

no.	R^3-A-
3977.	1-methyl-3-(3,4-dimethoxy-phenyl)-1H-pyrazol-5-yl
3978.	1-methyl-3-(3,5-dimethoxy-phenyl)-1H-pyrazol-5-yl
3979.	1-methyl-3-(o-CN-phenoxy)-1H-pyrazol-5-yl
3980.	1-methyl-3-(m-CN-phenoxy)-1H-pyrazol-5-yl
3981.	1-methyl-3-(p-CN-phenoxy)-1H-pyrazol-5-yl
3982.	1-methyl-3-(o-NO_2-phenoxy)-1H-pyrazol-5-yl
3983.	1-methyl-3-(m-NO_2-phenoxy)-1H-pyrazol-5-yl
3984.	1-methyl-3-(p-NO_2-phenoxy)-1H-pyrazol-5-yl
3985.	1-methyl-3-(o-F-phenoxy)-1H-pyrazol-5-yl
3986.	1-methyl-3-(m-F-phenoxy)-1H-pyrazol-5-yl
3987.	1-methyl-3-(p-F-phenoxy)-1H-pyrazol-5-yl
3988.	1-methyl-3-(o-Cl-phenoxy)-1H-pyrazol-5-yl
3989.	1-methyl-3-(m-Cl-phenoxy)-1H-pyrazol-5-yl
3990.	1-methyl-3-(p-Cl-phenoxy)-1H-pyrazol-5-yl
3991.	1-methyl-3-(o-Br-phenoxy)-1H-pyrazol-5-yl
3992.	1-methyl-3-(m-Br-phenoxy)-1H-pyrazol-5-yl
3993.	1-methyl-3-(p-Br-phenoxy)-1H-pyrazol-5-yl
3994.	1-methyl-3-(o-CH_3-phenoxy)-1H-pyrazol-5-yl
3995.	1-methyl-3-(m-CH_3-phenoxy)-1H-pyrazol-5-yl
3996.	1-methyl-3-(p-CH_3-phenoxy)-1H-pyrazol-5-yl

no.	R^3-A-
3997.	1-methyl-3-(o-CF_3-phenoxy)-1H-pyrazol-5-yl
3998.	1-methyl-3-(m-CF_3-phenoxy)-1H-pyrazol-5-yl
3999.	1-methyl-3-(p-CF_3-phenoxy)-1H-pyrazol-5-yl
4000.	1-methyl-3-(o-CF_3-phenoxy)-1H-pyrazol-5-yl
4001.	1-methyl-3-(m-CF_3-phenoxy)-1H-pyrazol-5-yl
4002.	1-methyl-3-(p-CF_3-phenoxy)-1H-pyrazol-5-yl
4003.	1-methyl-3-(o-OCH_3-phenoxy)-1H-pyrazol-5-yl
4004.	1-methyl-3-(m-OCH_3-phenoxy)-1H-pyrazol-5-yl
4005.	1-methyl-3-(p-OCH_3-phenoxy)-1H-pyrazol-5-yl
4006.	1-methyl-3-(o-OCF_3-phenoxy)-1H-pyrazol-5-yl
4007.	1-methyl-3-(m-OCF_3-phenoxy)-1H-pyrazol-5-yl
4008.	1-methyl-3-(p-OCF_3-phenoxy)-1H-pyrazol-5-yl
4009.	1-methyl-3-(o-$COOCH_3$-phenoxy)-1H-pyrazol-5-yl
4010.	1-methyl-3-(m-$COOCH_3$-phenoxy)-1H-pyrazol-5-yl
4011.	1-methyl-3-(p-$COOCH_3$-phenoxy)-1H-pyrazol-5-yl
4012.	1-methyl-3-[o-$N(CH_3)_2$-phenoxy]-1H-pyrazol-5-yl
4013.	1-methyl-3-[m-$N(CH_3)_2$-phenoxy]-1H-pyrazol-5-yl
4014.	1-methyl-3-[p-$N(CH_3)_2$-phenoxy]-1H-pyrazol-5-yl
4015.	1-methyl-3-(2,3-dicyanophenoxy)-1H-pyrazol-5-yl
4016.	1-methyl-3-(2,4-dicyanophenoxy)-1H-pyrazol-5-yl
4017.	1-methyl-3-(2,5-dicyanophenoxy)-1H-pyrazol-5-yl
4018.	1-methyl-3-(2,6-dicyanophenoxy)-1H-pyrazol-5-yl
4019.	1-methyl-3-(3,4-dicyanophenoxy)-1H-pyrazol-5-yl
4020.	1-methyl-3-(3,5-dicyanophenoxy)-1H-pyrazol-5-yl
4021.	1-methyl-3-(2,3-difluorophenoxy)-1H-pyrazol-5-yl
4022.	1-methyl-3-(2,4-difluorophenoxy)-1H-pyrazol-5-yl
4023.	1-methyl-3-(2,5-difluorophenoxy)-1H-pyrazol-5-yl
4024.	1-methyl-3-(2,6-difluorophenoxy)-1H-pyrazol-5-yl
4025.	1-methyl-3-(3,4-difluorophenoxy)-1H-pyrazol-5-yl
4026.	1-methyl-3-(3,5-difluorophenoxy)-1H-pyrazol-5-yl
4027.	1-methyl-3-(2,3-dichlorophenoxy)-1H-pyrazol-5-yl
4028.	1-methyl-3-(2,4-dichlorophenoxy)-1H-pyrazol-5-yl
4029.	1-methyl-3-(2,5-dichlorophenoxy)-1H-pyrazol-5-yl
4030.	1-methyl-3-(2,6-dichlorophenoxy)-1H-pyrazol-5-yl
4031.	1-methyl-3-(3,4-dichlorophenoxy)-1H-pyrazol-5-yl
4032.	1-methyl-3-(3,5-dichlorophenoxy)-1H-pyrazol-5-yl
4033.	1-methyl-3-(2,3-dibromophenoxy)-1H-pyrazol-5-yl
4034.	1-methyl-3-(2,4-dibromophenoxy)-1H-pyrazol-5-yl
4035.	1-methyl-3-(2,5-dibromophenoxy)-1H-pyrazol-5-yl
4036.	1-methyl-3-(2,6-dibromophenoxy)-1H-pyrazol-5-yl

no.	R^3-A-
4037.	1-methyl-3-(3,4-dibromophenoxy)-1H-pyrazol-5-yl
4038.	1-methyl-3-(3,5-dibromophenoxy)-1H-pyrazol-5-yl
4039.	1-methyl-3-(2,3-dimethyl-phenoxy)-1H-pyrazol-5-yl
4040.	1-methyl-3-(2,4-dimethyl-phenoxy)-1H-pyrazol-5-yl
4041.	1-methyl-3-(2,5-dimethyl-phenoxy)-1H-pyrazol-5-yl
4042.	1-methyl-3-(2,6-dimethyl-phenoxy)-1H-pyrazol-5-yl
4043.	1-methyl-3-(3,4-dimethyl-phenoxy)-1H-pyrazol-5-yl
4044.	1-methyl-3-(3,5-dimethyl-phenoxy)-1H-pyrazol-5-yl
4045.	1-methyl-3-[2,3-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4046.	1-methyl-3-[2,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4047.	1-methyl-3-[2,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4048.	1-methyl-3-[2,6-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4049.	1-methyl-3-[3,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4050.	1-methyl-3-[3,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-5-yl
4051.	1-methyl-3-(2,3-dimethoxy-phenoxy)-1H-pyrazol-5-yl
4052.	1-methyl-3-(2,4-dimethoxy-phenoxy)-1H-pyrazol-5-yl
4053.	1-methyl-3-(2,5-dimethoxy-phenoxy)-1H-pyrazol-5-yl
4054.	1-methyl-3-(2,6-dimethoxy-phenoxy)-1H-pyrazol-5-yl
4055.	1-methyl-3-(3,4-dimethoxy-phenoxy)-1H-pyrazol-5-yl
4056.	1-methyl-3-(3,5-dimethoxy-phenoxy)-1H-pyrazol-5-yl

no.	R^3-A-
4057.	1-(o-CN-phenyl)-1H-pyrazol-3-yl
4058.	1-(m-CN-phenyl)-1H-pyrazol-3-yl
4059.	1-(p-CN-phenyl)-1H-pyrazol-3-yl
4060.	1-(o-NO_2-phenyl)-1H-pyrazol-3-yl
4061.	1-(m-NO_2-phenyl)-1H-pyrazol-3-yl
4062.	1-(p-NO_2-phenyl)-1H-pyrazol-3-yl
4063.	1-(o-F-phenyl)-1H-pyrazol-3-yl
4064.	1-(m-F-phenyl)-1H-pyrazol-3-yl
4065.	1-(p-F-phenyl)-1H-pyrazol-3-yl
4066.	1-(o-Cl-phenyl)-1H-pyrazol-3-yl
4067.	1-(m-Cl-phenyl)-1H-pyrazol-3-yl
4068.	1-(p-Cl-phenyl)-1H-pyrazol-3-yl
4069.	1-(o-Br-phenyl)-1H-pyrazol-3-yl
4070.	1-(m-Br-phenyl)-1H-pyrazol-3-yl
4071.	1-(p-Br-phenyl)-1H-pyrazol-3-yl
4072.	1-(o-CH_3-phenyl)-1H-pyrazol-3-yl
4073.	1-(m-CH_3-phenyl)-1H-pyrazol-3-yl
4074.	1-(p-CH_3-phenyl)-1H-pyrazol-3-yl
4075.	1-(o-CF_3-phenyl)-1H-pyrazol-3-yl
4076.	1-(m-CF_3-phenyl)-1H-pyrazol-3-yl
4077.	1-(p-CF_3-phenyl)-1H-pyrazol-3-yl
4078.	1-(o-CF_3-phenyl)-1H-pyrazol-3-yl
4079.	1-(m-CF_3-phenyl)-1H-pyrazol-3-yl
4080.	1-(p-CF_3-phenyl)-1H-pyrazol-3-yl
4081.	1-(o-OCH_3-phenyl)-1H-pyrazol-3-yl
4082.	1-(m-OCH_3-phenyl)-1H-pyrazol-3-yl
4083.	1-(p-OCH_3-phenyl)-1H-pyrazol-3-yl
4084.	1-(o-OCF_3-phenyl)-1H-pyrazol-3-yl
4085.	1-(m-OCF_3-phenyl)-1H-pyrazol-3-yl
4086.	1-(p-OCF_3-phenyl)-1H-pyrazol-3-yl
4087.	1-(o-$COOCH_3$-phenyl)-1H-pyrazol-3-yl

no.	R^3-A-
4088.	1-(m-$COOCH_3$-phenyl)-1H-pyrazol-3-yl
4089.	1-(p-$COOCH_3$-phenyl)-1H-pyrazol-3-yl
4090.	1-[o-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
4091.	1-[m-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
4092.	1-[p-$N(CH_3)_2$-phenyl]-1H-pyrazol-3-yl
4093.	1-(2,3-dicyanophenyl)-1H-pyrazol-3-yl
4094.	1-(2,4-dicyanophenyl)-1H-pyrazol-3-yl
4095.	1-(2,5-dicyanophenyl)-1H-pyrazol-3-yl
4096.	1-(2,6-dicyanophenyl)-1H-pyrazol-3-yl
4097.	1-(3,4-dicyanophenyl)-1H-pyrazol-3-yl
4098.	1-(3,5-dicyanophenyl)-1H-pyrazol-3-yl
4099.	1-(2,3-difluorophenyl)-1H-pyrazol-3-yl
4100.	1-(2,4-difluorophenyl)-1H-pyrazol-3-yl
4101.	1-(2,5-difluorophenyl)-1H-pyrazol-3-yl
4102.	1-(2,6-difluorophenyl)-1H-pyrazol-3-yl
4103.	1-(3,4-difluorophenyl)-1H-pyrazol-3-yl
4104.	1-(3,5-difluorophenyl)-1H-pyrazol-3-yl
4105.	1-(2,3-dichlorophenyl)-1H-pyrazol-3-yl
4106.	1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl
4107.	1-(2,5-dichlorophenyl)-1H-pyrazol-3-yl
4108.	1-(2,6-dichlorophenyl)-1H-pyrazol-3-yl
4109.	1-(3,4-dichlorophenyl)-1H-pyrazol-3-yl
4110.	1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl
4111.	1-(2,3-dibromophenyl)-1H-pyrazol-3-yl
4112.	1-(2,4-dibromophenyl)-1H-pyrazol-3-yl
4113.	1-(2,5-dibromophenyl)-1H-pyrazol-3-yl
4114.	1-(2,6-dibromophenyl)-1H-pyrazol-3-yl
4115.	1-(3,4-dibromophenyl)-1H-pyrazol-3-yl
4116.	1-(3,5-dibromophenyl)-1H-pyrazol-3-yl
4117.	1-(2,3-dimethylphenyl)-1H-pyrazol-3-yl
4118.	1-(2,4-dimethylphenyl)-1H-pyrazol-3-yl
4119.	1-(2,5-dimethylphenyl)-1H-pyrazol-3-yl
4120.	1-(2,6-dimethylphenyl)-1H-pyrazol-3-yl
4121.	1-(3,4-dimethylphenyl)-1H-pyrazol-3-yl
4122.	1-(3,5-dimethylphenyl)-1H-pyrazol-3-yl
4123.	1-[2,3-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl
4124.	1-[2,4-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl
4125.	1-[2,5-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl
4126.	1-[2,6-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl
4127.	1-[3,4-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl

no.	R^3-A-
4128.	1-[3,5-di(trifluoromethyl)phenyl]-1H-pyrazol-3-yl
4129.	1-(2,3-dimethoxyphenyl)-1H-pyrazol-3-yl
4130.	1-(2,4-dimethoxyphenyl)-1H-pyrazol-3-yl
4131.	1-(2,5-dimethoxyphenyl)-1H-pyrazol-3-yl
4132.	1-(2,6-dimethoxyphenyl)-1H-pyrazol-3-yl
4133.	1-(3,4-dimethoxyphenyl)-1H-pyrazol-3-yl
4134.	1-(3,5-dimethoxyphenyl)-1H-pyrazol-3-yl
4135.	1-(o-CN-phenoxy)-1H-pyrazol-3-yl
4136.	1-(m-CN-phenoxy)-1H-pyrazol-3-yl
4137.	1-(p-CN-phenoxy)-1H-pyrazol-3-yl
4138.	1-(o-NO_2-phenoxy)-1H-pyrazol-3-yl
4139.	1-(m-NO_2-phenoxy)-1H-pyrazol-3-yl
4140.	1-(p-NO_2-phenoxy)-1H-pyrazol-3-yl
4141.	1-(o-F-phenoxy)-1H-pyrazol-3-yl
4142.	1-(m-F-phenoxy)-1H-pyrazol-3-yl
4143.	1-(p-F-phenoxy)-1H-pyrazol-3-yl
4144.	1-(o-Cl-phenoxy)-1H-pyrazol-3-yl
4145.	1-(m-Cl-phenoxy)-1H-pyrazol-3-yl
4146.	1-(p-Cl-phenoxy)-1H-pyrazol-3-yl
4147.	1-(o-Br-phenoxy)-1H-pyrazol-3-yl
4148.	1-(m-Br-phenoxy)-1H-pyrazol-3-yl
4149.	1-(p-Br-phenoxy)-1H-pyrazol-3-yl
4150.	1-(o-CH_3-phenoxy)-1H-pyrazol-3-yl
4151.	1-(m-CH_3-phenoxy)-1H-pyrazol-3-yl
4152.	1-(p-CH_3-phenoxy)-1H-pyrazol-3-yl
4153.	1-(o-CF_3-phenoxy)-1H-pyrazol-3-yl
4154.	1-(m-CF_3-phenoxy)-1H-pyrazol-3-yl
4155.	1-(p-CF_3-phenoxy)-1H-pyrazol-3-yl
4156.	1-(o-CF_3-phenoxy)-1H-pyrazol-3-yl
4157.	1-(m-CF_3-phenoxy)-1H-pyrazol-3-yl
4158.	1-(p-CF_3-phenoxy)-1H-pyrazol-3-yl
4159.	1-(o-OCH_3-phenoxy)-1H-pyrazol-3-yl
4160.	1-(m-OCH_3-phenoxy)-1H-pyrazol-3-yl
4161.	1-(p-OCH_3-phenoxy)-1H-pyrazol-3-yl
4162.	1-(o-OCF_3-phenoxy)-1H-pyrazol-3-yl
4163.	1-(m-OCF_3-phenoxy)-1H-pyrazol-3-yl
4164.	1-(p-OCF_3-phenoxy)-1H-pyrazol-3-yl
4165.	1-(o-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
4166.	1-(m-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
4167.	1-(p-$COOCH_3$-phenoxy)-1H-pyrazol-3-yl
4168.	1-[o-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
4169.	1-[m-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
4170.	1-[p-$N(CH_3)_2$-phenoxy]-1H-pyrazol-3-yl
4171.	1-(2,3-dicyanophenoxy)-1H-pyrazol-3-yl

no.	R^3-A-
4172.	1-(2,4-dicyanophenoxy)-1H-pyrazol-3-yl
4173.	1-(2,5-dicyanophenoxy)-1H-pyrazol-3-yl
4174.	1-(2,6-dicyanophenoxy)-1H-pyrazol-3-yl
4175.	1-(3,4-dicyanophenoxy)-1H-pyrazol-3-yl
4176.	1-(3,5-dicyanophenoxy)-1H-pyrazol-3-yl
4177.	1-(2,3-difluorophenoxy)-1H-pyrazol-3-yl
4178.	1-(2,4-difluorophenoxy)-1H-pyrazol-3-yl
4179.	1-(2,5-difluorophenoxy)-1H-pyrazol-3-yl
4180.	1-(2,6-difluorophenoxy)-1H-pyrazol-3-yl
4181.	1-(3,4-difluorophenoxy)-1H-pyrazol-3-yl
4182.	1-(3,5-difluorophenoxy)-1H-pyrazol-3-yl
4183.	1-(2,3-dichlorophenoxy)-1H-pyrazol-3-yl
4184.	1-(2,4-dichlorophenoxy)-1H-pyrazol-3-yl
4185.	1-(2,5-dichlorophenoxy)-1H-pyrazol-3-yl
4186.	1-(2,6-dichlorophenoxy)-1H-pyrazol-3-yl
4187.	1-(3,4-dichlorophenoxy)-1H-pyrazol-3-yl
4188.	1-(3,5-dichlorophenoxy)-1H-pyrazol-3-yl
4189.	1-(2,3-dibromophenoxy)-1H-pyrazol-3-yl
4190.	1-(2,4-dibromophenoxy)-1H-pyrazol-3-yl
4191.	1-(2,5-dibromophenoxy)-1H-pyrazol-3-yl
4192.	1-(2,6-dibromophenoxy)-1H-pyrazol-3-yl
4193.	1-(3,4-dibromophenoxy)-1H-pyrazol-3-yl
4194.	1-(3,5-dibromophenoxy)-1H-pyrazol-3-yl
4195.	1-(2,3-dimethylphenoxy)-1H-pyrazol-3-yl
4196.	1-(2,4-dimethylphenoxy)-1H-pyrazol-3-yl
4197.	1-(2,5-dimethylphenoxy)-1H-pyrazol-3-yl
4198.	1-(2,6-dimethylphenoxy)-1H-pyrazol-3-yl
4199.	1-(3,4-dimethylphenoxy)-1H-pyrazol-3-yl
4200.	1-(3,5-dimethylphenoxy)-1H-pyrazol-3-yl
4201.	1-[2,3-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4202.	1-[2,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4203.	1-[2,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4204.	1-[2,6-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4205.	1-[3,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4206.	1-[3,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-3-yl
4207.	1-(2,3-dimethoxyphenoxy)-1H-pyrazol-3-yl
4208.	1-(2,4-dimethoxyphenoxy)-1H-pyrazol-3-yl
4209.	1-(2,5-dimethoxyphenoxy)-1H-pyrazol-3-yl
4210.	1-(2,6-dimethoxyphenoxy)-1H-pyrazol-3-yl
4211.	1-(3,4-dimethoxyphenoxy)-1H-pyrazol-3-yl

no.	R^3-A-
4212.	1-(3,5-dimethoxyphenoxy)-1H-pyrazol-3-yl
4213.	1-(o-CN-phenyl)-1H-pyrazol-4-yl
4214.	1-(m-CN-phenyl)-1H-pyrazol-4-yl
4215.	1-(p-CN-phenyl)-1H-pyrazol-4-yl
4216.	1-(o-NO_2-phenyl)-1H-pyrazol-4-yl
4217.	1-(m-NO_2-phenyl)-1H-pyrazol-4-yl
4218.	1-(p-NO_2-phenyl)-1H-pyrazol-4-yl
4219.	1-(o-F-phenyl)-1H-pyrazol-4-yl
4220.	1-(m-F-phenyl)-1H-pyrazol-4-yl
4221.	1-(p-F-phenyl)-1H-pyrazol-4-yl
4222.	1-(o-Cl-phenyl)-1H-pyrazol-4-yl
4223.	1-(m-Cl-phenyl)-1H-pyrazol-4-yl
4224.	1-(p-Cl-phenyl)-1H-pyrazol-4-yl
4225.	1-(o-Br-phenyl)-1H-pyrazol-4-yl
4226.	1-(m-Br-phenyl)-1H-pyrazol-4-yl
4227.	1-(p-Br-phenyl)-1H-pyrazol-4-yl
4228.	1-(o-CH_3-phenyl)-1H-pyrazol-4-yl
4229.	1-(m-CH_3-phenyl)-1H-pyrazol-4-yl
4230.	1-(p-CH_3-phenyl)-1H-pyrazol-4-yl
4231.	1-(o-CF_3-phenyl)-1H-pyrazol-4-yl
4232.	1-(m-CF_3-phenyl)-1H-pyrazol-4-yl
4233.	1-(p-CF_3-phenyl)-1H-pyrazol-4-yl
4234.	1-(o-CF_3-phenyl)-1H-pyrazol-4-yl
4235.	1-(m-CF_3-phenyl)-1H-pyrazol-4-yl
4236.	1-(p-CF_3-phenyl)-1H-pyrazol-4-yl
4237.	1-(o-OCH_3-phenyl)-1H-pyrazol-4-yl
4238.	1-(m-OCH_3-phenyl)-1H-pyrazol-4-yl
4239.	1-(p-OCH_3-phenyl)-1H-pyrazol-4-yl
4240.	1-(o-OCF_3-phenyl)-1H-pyrazol-4-yl
4241.	1-(m-OCF_3-phenyl)-1H-pyrazol-4-yl
4242.	1-(p-OCF_3-phenyl)-1H-pyrazol-4-yl

no.	R^3-A-
4243.	1-(o-$COOCH_3$-phenyl)-1H-pyrazol-4-yl
4244.	1-(m-$COOCH_3$-phenyl)-1H-pyrazol-4-yl
4245.	1-(p-$COOCH_3$-phenyl)-1H-pyrazol-4-yl
4246.	1-[o-$N(CH_3)_2$-phenyl]-1H-pyrazol-4-yl
4247.	1-[m-$N(CH_3)_2$-phenyl]-1H-pyrazol-4-yl
4248.	1-[p-$N(CH_3)_2$-phenyl]-1H-pyrazol-4-yl
4249.	1-(2,3-dicyanophenyl)-1H-pyrazol-4-yl
4250.	1-(2,4-dicyanophenyl)-1H-pyrazol-4-yl
4251.	1-(2,5-dicyanophenyl)-1H-pyrazol-4-yl
4252.	1-(2,6-dicyanophenyl)-1H-pyrazol-4-yl
4253.	1-(3,4-dicyanophenyl)-1H-pyrazol-4-yl
4254.	1-(3,5-dicyanophenyl)-1H-pyrazol-4-yl
4255.	1-(2,3-difluorophenyl)-1H-pyrazol-4-yl
4256.	1-(2,4-difluorophenyl)-1H-pyrazol-4-yl
4257.	1-(2,5-difluorophenyl)-1H-pyrazol-4-yl
4258.	1-(2,6-difluorophenyl)-1H-pyrazol-4-yl
4259.	1-(3,4-difluorophenyl)-1H-pyrazol-4-yl
4260.	1-(3,5-difluorophenyl)-1H-pyrazol-4-yl
4261.	1-(2,3-dichlorophenyl)-1H-pyrazol-4-yl
4262.	1-(2,4-dichlorophenyl)-1H-pyrazol-4-yl

no.	R^3-A-
4263.	1-(2,5-dichlorophenyl)-1H-pyrazol-4-yl
4264.	1-(2,6-dichlorophenyl)-1H-pyrazol-4-yl
4265.	1-(3,4-dichlorophenyl)-1H-pyrazol-4-yl
4266.	1-(3,5-dichlorophenyl)-1H-pyrazol-4-yl
4267.	1-(2,3-dibromophenyl)-1H-pyrazol-4-yl
4268.	1-(2,4-dibromophenyl)-1H-pyrazol-4-yl
4269.	1-(2,5-dibromophenyl)-1H-pyrazol-4-yl
4270.	1-(2,6-dibromophenyl)-1H-pyrazol-4-yl
4271.	1-(3,4-dibromophenyl)-1H-pyrazol-4-yl
4272.	1-(3,5-dibromophenyl)-1H-pyrazol-4-yl
4273.	1-(2,3-dimethylphenyl)-1H-pyrazol-4-yl
4274.	1-(2,4-dimethylphenyl)-1H-pyrazol-4-yl
4275.	1-(2,5-dimethylphenyl)-1H-pyrazol-4-yl
4276.	1-(2,6-dimethylphenyl)-1H-pyrazol-4-yl
4277.	1-(3,4-dimethylphenyl)-1H-pyrazol-4-yl
4278.	1-(3,5-dimethylphenyl)-1H-pyrazol-4-yl
4279.	1-[2,3-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4280.	1-[2,4-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4281.	1-[2,5-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4282.	1-[2,6-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4283.	1-[3,4-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4284.	1-[3,5-di(trifluoromethyl)phenyl]-1H-pyrazol-4-yl
4285.	1-(2,3-dimethoxyphenyl)-1H-pyrazol-4-yl
4286.	1-(2,4-dimethoxyphenyl)-1H-pyrazol-4-yl
4287.	1-(2,5-dimethoxyphenyl)-1H-pyrazol-4-yl
4288.	1-(2,6-dimethoxyphenyl)-1H-pyrazol-4-yl
4289.	1-(3,4-dimethoxyphenyl)-1H-pyrazol-4-yl
4290.	1-(3,5-dimethoxyphenyl)-1H-pyrazol-4-yl
4291.	1-(o-CN-phenoxy)-1H-pyrazol-4-yl
4292.	1-(m-CN-phenoxy)-1H-pyrazol-4-yl
4293.	1-(p-CN-phenoxy)-1H-pyrazol-4-yl
4294.	1-(o-NO_2-phenoxy)-1H-pyrazol-4-yl
4295.	1-(m-NO_2-phenoxy)-1H-pyrazol-4-yl
4296.	1-(p-NO_2-phenoxy)-1H-pyrazol-4-yl
4297.	1-(o-F-phenoxy)-1H-pyrazol-4-yl
4298.	1-(m-F-phenoxy)-1H-pyrazol-4-yl
4299.	1-(p-F-phenoxy)-1H-pyrazol-4-yl
4300.	1-(o-Cl-phenoxy)-1H-pyrazol-4-yl
4301.	1-(m-Cl-phenoxy)-1H-pyrazol-4-yl
4302.	1-(p-Cl-phenoxy)-1H-pyrazol-4-yl
4303.	1-(o-Br-phenoxy)-1H-pyrazol-4-yl
4304.	1-(m-Br-phenoxy)-1H-pyrazol-4-yl
4305.	1-(p-Br-phenoxy)-1H-pyrazol-4-yl
4306.	1-(o-CH_3-phenoxy)-1H-pyrazol-4-yl

no.	R^3-A-
4307.	1-(m-CH_3-phenoxy)-1H-pyrazol-4-yl
4308.	1-(p-CH_3-phenoxy)-1H-pyrazol-4-yl
4309.	1-(o-CF_3-phenoxy)-1H-pyrazol-4-yl
4310.	1-(m-CF_3-phenoxy)-1H-pyrazol-4-yl
4311.	1-(p-CF_3-phenoxy)-1H-pyrazol-4-yl
4312.	1-(o-CF_3-phenoxy)-1H-pyrazol-4-yl
4313.	1-(m-CF_3-phenoxy)-1H-pyrazol-4-yl
4314.	1-(p-CF_3-phenoxy)-1H-pyrazol-4-yl
4315.	1-(o-OCH_3-phenoxy)-1H-pyrazol-4-yl
4316.	1-(m-OCH_3-phenoxy)-1H-pyrazol-4-yl
4317.	1-(p-OCH_3-phenoxy)-1H-pyrazol-4-yl
4318.	1-(o-OCF_3-phenoxy)-1H-pyrazol-4-yl
4319.	1-(m-OCF_3-phenoxy)-1H-pyrazol-4-yl
4320.	1-(p-OCF_3-phenoxy)-1H-pyrazol-4-yl
4321.	1-(o-$COOCH_3$-phenoxy)-1H-pyrazol-4-yl
4322.	1-(m-$COOCH_3$-phenoxy)-1H-pyrazol-4-yl
4323.	1-(p-$COOCH_3$-phenoxy)-1H-pyrazol-4-yl
4324.	1-[o-$N(CH_3)_2$-phenoxy]-1H-pyrazol-4-yl
4325.	1-[m-$N(CH_3)_2$-phenoxy]-1H-pyrazol-4-yl
4326.	1-[p-$N(CH_3)_2$-phenoxy]-1H-pyrazol-4-yl

no.	R^3-A-
4327.	1-(2,3-dicyanophenoxy)-1H-pyrazol-4-yl
4328.	1-(2,4-dicyanophenoxy)-1H-pyrazol-4-yl
4329.	1-(2,5-dicyanophenoxy)-1H-pyrazol-4-yl
4330.	1-(2,6-dicyanophenoxy)-1H-pyrazol-4-yl
4331.	1-(3,4-dicyanophenoxy)-1H-pyrazol-4-yl
4332.	1-(3,5-dicyanophenoxy)-1H-pyrazol-4-yl
4333.	1-(2,3-difluorophenoxy)-1H-pyrazol-4-yl
4334.	1-(2,4-difluorophenoxy)-1H-pyrazol-4-yl
4335.	1-(2,5-difluorophenoxy)-1H-pyrazol-4-yl
4336.	1-(2,6-difluorophenoxy)-1H-pyrazol-4-yl
4337.	1-(3,4-difluorophenoxy)-1H-pyrazol-4-yl
4338.	1-(3,5-difluorophenoxy)-1H-pyrazol-4-yl
4339.	1-(2,3-dichlorophenoxy)-1H-pyrazol-4-yl
4340.	1-(2,4-dichlorophenoxy)-1H-pyrazol-4-yl
4341.	1-(2,5-dichlorophenoxy)-1H-pyrazol-4-yl
4342.	1-(2,6-dichlorophenoxy)-1H-pyrazol-4-yl
4343.	1-(3,4-dichlorophenoxy)-1H-pyrazol-4-yl
4344.	1-(3,5-dichlorophenoxy)-1H-pyrazol-4-yl
4345.	1-(2,3-dibromophenoxy)-1H-pyrazol-4-yl
4346.	1-(2,4-dibromophenoxy)-1H-pyrazol-4-yl

no.	R^3-A-
4347.	1-(2,5-dibromophenoxy)-1H-pyrazol-4-yl
4348.	1-(2,6-dibromophenoxy)-1H-pyrazol-4-yl
4349.	1-(3,4-dibromophenoxy)-1H-pyrazol-4-yl
4350.	1-(3,5-dibromophenoxy)-1H-pyrazol-4-yl
4351.	1-(2,3-dimethylphenoxy)-1H-pyrazol-4-yl
4352.	1-(2,4-dimethylphenoxy)-1H-pyrazol-4-yl
4353.	1-(2,5-dimethylphenoxy)-1H-pyrazol-4-yl
4354.	1-(2,6-dimethylphenoxy)-1H-pyrazol-4-yl
4355.	1-(3,4-dimethylphenoxy)-1H-pyrazol-4-yl
4356.	1-(3,5-dimethylphenoxy)-1H-pyrazol-4-yl
4357.	1-[2,3-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4358.	1-[2,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4359.	1-[2,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4360.	1-[2,6-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4361.	1-[3,4-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4362.	1-[3,5-di(trifluoro-methyl)phenoxy]-1H-pyrazol-4-yl
4363.	1-(2,3-dimethoxyphenoxy)-1H-pyrazol-4-yl
4364.	1-(2,4-dimethoxyphenoxy)-1H-pyrazol-4-yl
4365.	1-(2,5-dimethoxyphenoxy)-1H-pyrazol-4-yl
4366.	1-(2,6-dimethoxyphenoxy)-1H-pyrazol-4-yl
4367.	1-(3,4-dimethoxyphenoxy)-1H-pyrazol-4-yl
4368.	1-(3,5-dimethoxyphenoxy)-1H-pyrazol-4-yl

Table 2: compounds 4369 to 8736:
Compounds of the formula (I.b.a) wherein R^1 means chlorine in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 3: compounds 8737 to 13104:
Compounds of the formula (I.b.a), wherein R^1 means chlorine in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 4: compounds 13105 to 17472:
Compounds of the formula (I.b.a) wherein R^1 means chlorine in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 5: compounds 17473 to 21840:

Compounds of the formula (I.b.a) wherein R^1 means methyl in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 6: compounds 21841 to 26208:
Compounds of the formula (I.b.a) wherein R^1 means methyl in position 5 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 7: compounds 26209 to 30576:
Compounds of the formula (I.b.a) wherein R^1 means methyl in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 8: compounds 30577 to 34944:

Compounds of the formula (I.b.a) wherein R^1 means methoxy in position 2 of the pyrimidine ring and t the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 9: compounds 34945 to 39312:
Compounds of the formula (I.b.a) wherein R^1 means methoxy in position 5 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 10: compounds 39313 to 43680:
Compounds of the formula (I.b.a) wherein R^1 means methoxy in position 6 of the pyrimidine ring and the combination of R^3-A in each case corresponds to one line of table A.

Table 11: compounds 43681 to 48048:
Compounds of the formula (I.b.a) wherein R^1 means methylthio in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 12: compounds 48049 to 52416:
Compounds of the formula (I.b.a) wherein R^1 means methylthio in position 5 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 13: compounds 52417 to 56784:
Compounds of the formula (I.b.a) wherein R^1 means methylthio in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 14: compounds 56785 to 61152:
Compounds of the formula (I.c.a) wherein each R^1 means methyl, attached in positions 2 and 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 15: compounds 61153 to 65520:
Compounds of the formula (I.c.a) wherein each R^1 means methyl, attached in positions 5 and 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 16: compounds 65521 to 69888:
Compounds of the formula (I.c.a) wherein each R^1 means methoxy, attached in positions 2 and 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 17: compounds 69889 to 74256:
Compounds of the formula (I.c.a), wherein each R^1 means methoxy, attached in positions 5 and 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 18: compounds 74257 to 78624:
Compounds of the formula (I.b.a), wherein R^1 difluoromethoxy, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 19: compounds 78625 to 82992:
Compounds of the formula (I.b.a), wherein R^1 difluoromethoxy, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 20: compounds 82993 to 87360:
Compounds of the formula (I.b.a), wherein R^1 trifluoromethoxy, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 21: compounds 87361 to 91728:
Compounds of the formula (I.b.a), wherein R^1 trifluoromethoxy, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 22: compounds 91729 to 96096:
Compounds of the formula (I.b.a), wherein R^1 difluoromethylthio, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 23: compounds 96097 to 100464:
Compounds of the formula (I.b.a), wherein R^1 difluoromethylthio, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 24: compounds 100465 to 104832:
Compounds of the formula (I.b.a), wherein R^1 methylsulfonyl, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 25: compounds 104832 to 109200:
Compounds of the formula (I.b.a), wherein R^1 methylsulfinyl, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 26: compounds 109201 to 113568:
Compounds of the formula (I.b.a), wherein R^1 trifluoromethylthio, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 27: compounds 113569 to 117936:
Compounds of the formula (I.b.a), wherein R^1 trifluoromethylthio, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 28: compounds 117937 to 122304:

Compounds of the formula (I.b.a), wherein R^1 methylamino, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 29: compounds 122305 to 126672:
Compounds of the formula (I.b.a), wherein R^1 methylamino, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 30: compounds 126673 to 131040:
Compounds of the formula (I.b.a), wherein R^1 dimethylamino, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 31: compounds 131041 to 135408:
Compounds of the formula (I.b.a), wherein R^1 dimethylamino, attached in position 6 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 32: compounds 135409 to 139776:
Compounds of the formula (I.b.a), wherein R^1 cyclopropyl, attached in position 2 of the pyrimidine ring and the combination of R^3-A for a compound corresponds in each case to one line of table A.

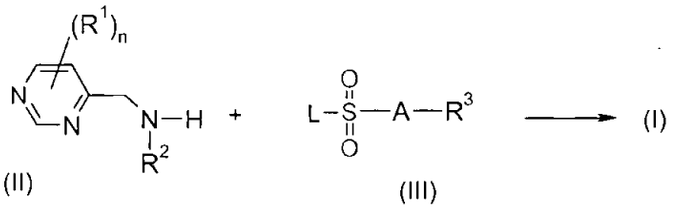
Table 33: compounds 139777 to 144144:
Compounds of the formula (I.c.a), wherein one R^1 means methoxy, attached in position 2 of the pyrimidine ring, the other R^1 means methyl, attached in position 6 of the pyrimidine ring, and the combination of R^3-A for a compound corresponds in each case to one line of table A.

Table 34: compounds 144144 to 148512:
Compounds of the formula (I.c.a), wherein one R^1 means methylthio, attached in position 2 of the pyrimidine ring, the other R^1 means methyl, attached in position 6 of the pyrimidine ring, and the combination of R^3-A for a compound corresponds in each case to one line of table A.

The inventive compounds of the formula (I) can be prepared by various routes in analogy to prior art processes known per se for preparing sulfonamide compounds

and, advantageously, by the synthesis shown in the following schemes and in the experimental part of this application.

Scheme 1:



(II) (III) (I)

In scheme 1, R^1, R^2, R^3, A and n are as defined above, and L is a leaving group such as hydroxy or halogen, preferably chlorine.

According to the process depicted in scheme 1, a sulfonyl compound (III) is reacted with a pyrimidin-4-ylmethylamine compound (II) to obtain a compound of the formula (I) according to the present invention. The reaction of the sulfonyl compound (III) with compound (II) can be performed in accordance with standard methods of organic chemistry, see for example, Lieb. Ann. Chem. P. 641, 1990, or WO 2005/033081.

This reaction is usually carried out in an inert organic solvent. Suitable solvents are aliphatic hydrocarbons, such as pentane, hexane, cyclohexane and petroleum ether, aromatic hydrocarbons, such as toluene, o-, m- and p-xylene, halogenated hydrocarbons, such as dichloromethane, chloroform and chlorobenzene, ethers, such as diethyl ether, diisopropyl ether, tert.-butyl methyl ether, dioxane, anisole and tetrahydrofuran, nitriles, such as acetonitrile and propionitrile, ketones, such as acetone, methyl ethyl ketone, diethyl ketone and tert.-butyl methyl ketone, and also dimethyl sulfoxide, dimethylformamide and dimethylacetamide, preferably tetrahydrofuran, methyl tert-butylether, dichloromethane, chloroform, acetonitrile, toluene or dimethylformamide. It is also possible to use mixtures of the solvents mentioned.

The reaction is carried out in the presence of a base. Suitable bases are, in general, inorganic compounds, such as alkali metal and alkaline earth metal hydroxides, such as lithium hydroxide, sodium hydroxide, potassium hydroxide and calcium hydroxide, alkali metal and alkaline earth metal oxides, such as lithium oxide, sodium oxide, calcium oxide and magnesium oxide, alkali metal and alkaline earth metal hydrides, such as lithium hydride, sodium hydride, potassium hydride and calcium hydride, alkali metal and alkaline earth metal carbonates, such as lithium carbonate, potassium carbonate and calcium carbonate, and also alkali metal bicarbonates, such as sodium

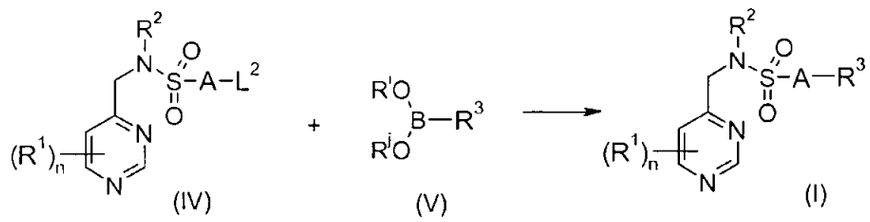
bicarbonate, moreover organic bases, for example tertiary amines, such as trimethylamine, triethylamine, diisopropylethylamine and N-methylpiperidine, pyridine, substituted pyridines, such as collidine, lutidine and 4-dimethylaminopyridine, and also bicyclic amines. Particular preference is given to triethylamine, pyridine, triethylamine and potassium carbonate. The bases are generally employed in equimolar amounts, in excess or, if appropriate, as solvent. The excess of base is typically 0.5 to 5 molar equivalents relative to 1 mole of compounds (II).

Generally, the reaction is carried out at temperatures of from -30°C to 120°C, preferably from -10°C to 100°C.

The starting materials are generally reacted with one another in equimolar amounts.

Compounds of the formula (I), wherein R^3 is optionally substituted phenyl or heteroaryl and A is optionally substituted phenylene or 5-or 6-membered, optionally substituted heteroarenediyl can be prepared by reaction of a compound of formula (IV) with a boronic acid derivative of the formula (V) by a Suzuki coupling as shown in scheme 2.

Scheme 2:



In scheme 2, R^1, R^2 and n are as defined above, R^i and R^j are each independently hydrogen or C_1-C_4-alkyl, or R^i and R^j together form an 1,2-ethylene or 1,2-propylene moiety the carbon atoms of which may be unsubstituted or may all or in part be substituted by methyl groups, and L^2 is a suitable leaving group.

Suitable leaving groups L^2 are halogen, preferably chlorine, bromine or iodine, alkylcarbonylate, benzoate, alkylsulfonate, haloalkylsulfonate or arylsulfonate, most preferably chlorine or bromine.

The reaction is usually carried out in the presence of a base and a catalyst, in particular a palladium catalyst, such as for example described in the following literature: Synth. Commun. Vol. 11, p. 513 (1981); Acc. Chem. Res. Vol. 15, pp. 178-184 (1982); Chem. Rev. Vol. 95, pp. 2457-2483 (1995); Organic Letters Vol. 6 (16), p. 2808 (2004); "Metal

catalyzed cross coupling reactions", 2nd Edition, Wiley, VCH 2005 (Eds. De Meijere, Diederich); "Handbook of organopalladium chemistry for organic synthesis" (Eds Negishi), Wiley, Interscience, New York, 2002; "Handbook of functionalized organometallics", (Ed. P. Knochel), Wiley, VCH, 2005.

Suitable catalysts are in tetrakis(triphenylphosphine)palladium(0); bis(triphenylphosphine)palladium(II) chloride; bis(acetonitrile)palladium(II) chloride; [1,1'-bis(diphenylphosphino)ferrocene]-palladium(II) chloride/methylene chloride (1:1) complex; bis[bis-(1,2-diphenylphosphino)ethane]palladium(0); bis(bis-(1,2-diphenylphosphino)butane]-palladium(II) chloride; palladium(II) acetate; palladium(II) chloride; and palladium(II) acetate/tri-o-tolylphosphine complex or mixtures of phosphines and Pd salts or phosphines and Pd-complexes e.g. dibenzylideneacetone-palladium and tritertbutylphosphine (or its tetrafluoroborate), tris cyclohexylphosphine; or a polymer-bound Pd-triphenylphosphine catalyst system.

Suitable bases are, in general, inorganic compounds, such as alkali metal and alkaline earth metal oxides, such as lithium oxide, sodium oxide, calcium oxide and magnesium oxide, alkali metal and alkaline earth metal carbonates, such as lithium carbonate, sodium carbonate, potassium carbonate, caesium carbonate and calcium carbonate, and also alkali metal bicarbonates, such as sodium bicarbonate, alkali metal and alkaline earth metal alkoxides, such as sodium methoxide, sodium ethoxide, potassium ethoxide and potassium tert.-butoxide, moreover organic bases, for example tertiary amines, such as trimethylamine, triethylamine, diisopropylethylamine and N-methylpiperidine, pyridine, substituted pyridines, such as collidine, lutidine and 4-dimethylaminopyridine, and also bicyclic amines. Particular preference is given to bases such as sodium carbonate, potassium carbonate, caesium carbonate, triethylamine and sodium bicarbonate.

The base is used in a 1:1 to 1:10, preferably a 1:1.5 to 5 molar ratio relative to 1 mole of compounds (IV), the boronic acid is used in a 1:1 to 1: 5 ratio, preferably a 1:1 to 1:2.5 molar ratio relative to 1 mole of compounds (IV). In some cases it may be benefical for easy purification to use the boronic acid in a substoechiometric amount of from 0.7:1 to 0.99:1, per 1 mole of compounds (IV).

The reaction is usually carried out in an inert organic organic solvent. Suitable solvents are aliphatic hydrocarbons, such as pentane, hexane, cyclohexane and petroleum ether, aromatic hydrocarbons, such as toluene, o-, m- and p-xylene, ethers, such as diisopropyl ether, tert.-butyl methyl ether, dioxane, anisole and tetrahydrofuran and dimethoxyethane, ketones, such as acetone, methyl ethyl ketone, diethyl ketone and

tert.-butyl methyl ketone, and also dimethyl sulfoxide, dimethylformamide and dimethylacetamide, particularly preferably ethers, such as tetrahydrofuran, dioxane and dimethoxyethane. It is also possible to use mixtures of the solvents mentioned, or mixtures with water.

The reaction is usually carried out at temperatures of from 20°C to 180°C, preferably from 40°C to 120°C.

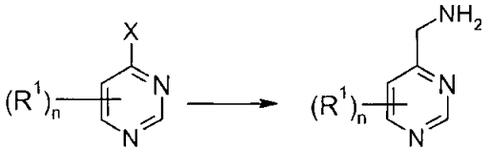
After completion of the reaction, the compounds of formula (I) can be isolated by employing conventional methods such as adding the reaction mixture to water, extracting with an organic solvent, concentrating the extract an the like. The isolated compounds (I) can be purified by a technique such as chromatography, recrystallization and the like, if necessary.

It is also possible to add a scavenger to the reaction mixtures to remove byproducts or unreacted starting materials by binding to those and simple filtration. For details see "Synthesis and purification catalog", Argonaut, 2003 and literature cited therein.

Boronic acids or esters (V) are commercially available or can be prepared according to "Science of Synthesis" Vol. 6, Thieme, 2005; WO 02/042275; Synlett 2003, (8) p.1204; J. Org. Chem., 2003, 68, p. 3729, Synthesis, 2000, p.442, J. Org. Chem., 1995, 60, p. 750; or "Handbook of functionalized organometallics", (Ed. P. Knochel), Wiley, VCH, 2005.

Pyrimidin-4-ylmethylamine compounds (II) are known from the literature or are commercially available or they can be prepared for example by reduction of the corresponding oxime VIa, nitrile VIb, or amide VIc as described below. Appropriate methods therefor are known to those skilled in the art:

Scheme 3:



VIa: X = CH(=NOH)
VIb: X = CN
VIc: X = $(C(=O)NH_2)$

(II)

In scheme 3, R^1 and n are as defined.

Suitable methods for the reduction of an oxime compound (VIa) to the corresponding pyrimidin-4-ylmethylamine compound (II) have been described in the literature e.g. in Jerry March, reactions, mechanisms and structure, fourth edition, 1992, John Wiley and Sons, New York, pages 1218-1219.

Suitable methods for the reduction of a nitrile compound (VIb) to the corresponding pyrimidin-4-ylmethylamine compound (II) have been described in the literature, e.g. in Jerry March, reactions, mechanisms and structure, fourth edition, 1992, John Wiley and Sons, New York, pages 918-919.

Suitable methods for the reduction of an amide compound (VIc) to the corresponding pyrimidin-4-ylmethylamine compound (II) have been described in the literature, e.g. in Jerry March, reactions, mechanisms and structure, fourth edition, 1992, John Wiley and Sons, New York, pages 1212-1213.

The oxim compound (VIa) can be prepared for example from either the respective aldehyd compound (X=CHO; compound (VId)) or the methylderivative ($X=CH_3$; compound (VIe)), as described in Houben-Weyl, vol. 10/4, Thieme, Stuttgart, 1968; vol. 11/2, 1957; vol E5, 1985; J. Prakt. Chem-Chem. Ztg. 336(8), pp. 695-697, 1994; Tetrahedron Lett. 42(39), pp.6815-6818, 2001; or Heterocycles, 29(9), pp.1741-1760, 1989.

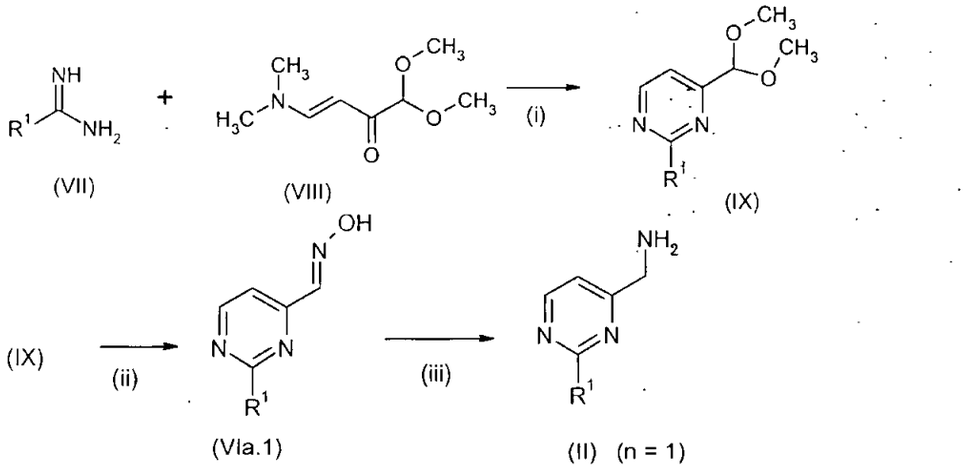
The aldehyd compound (VId) can be synthesized from a 4-methyl pyrimidine compound as outlined in J. Org. Chem. 51(4), pp. 536-537, 1986, or from a haloderivative (X= halogen, compound (VIf)) as shown in Eur. J. Org. Chem., 2003, (8), pp. 1576-1588; Tetrahedron Lett. 1999, 40 (19), pp. 3719-3722; Tetrahedron, 1999, 55 (41), pp. 12149-12156.

The nitrile compound (VIb) can be prepared for example from the corresponding 4-halogenepyrimidine compound (VIf) by reaction with cyanide. The 4-halogenepyrimidine compounds are either commercially available or can be synthesized according to standard methods.

The amide compound (VIc) can be prepared, for example, from the corresponding carboxylic acid chloride by reaction with ammonia.

A pyrimidin-4-ylmethylamine compound (II) carrying a substituent in the 2-position can be prepared for example as exemplified in schemes 4, 5 and 6.

Scheme 4:



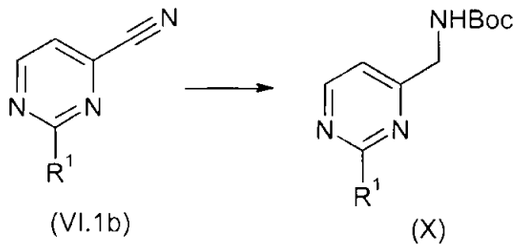
In scheme 4, R^1 is as defined above. In particular, R^1 is halogen, alkyl, amino, alkylamino or cycloalkyl.

According to the reaction sequence depicted in scheme 4, compounds of the formula (II) can be prepared analogously to methods described e.g. WO 2005/014572, Journal of Heterocyclic Chemistry (1978), 15(6), 1041-2 or Chemische Berichte (1964), 97(12), 3407-17. According to step (i), an enaminoketone (VIII) is reacted with an amidine compound (VII) or the hydrohalogenide thereof, as described e.g. in Journal of Heterocyclic Chemistry (1978), 15(6), 1041-2. Usually, the reaction (i) is carried out in the presence of a base. Suitable bases are C_1-C_4-alkoxide, especially methoxide. The reaction is generally carried out in the presence of a solvent. Suitable solvents are C_1-C_4-alkanoles, such as methanol, ethanol, n-propanol and mixtures thereof. Usually, the reaction is carried out at temperature of from room temperature to the boiling point of the solvent, preferably at refluxing temperature.

The compound (IX) is then treated with hydroxylamine to yield an oxime compound (VIa.1) (step ii). Hydrogenation of the resulting oxime compound (VIa.1) in the presence of a catalyst, e.g. palladium-on-carbon gives the pyrimidin-4-ylmethyl amine compound (II) (step iii).

A further method to build up pyrimidin-4-ylmethylamine compounds (II) carrying a substituent in the 2-position is shown in scheme 5.

Scheme 5:



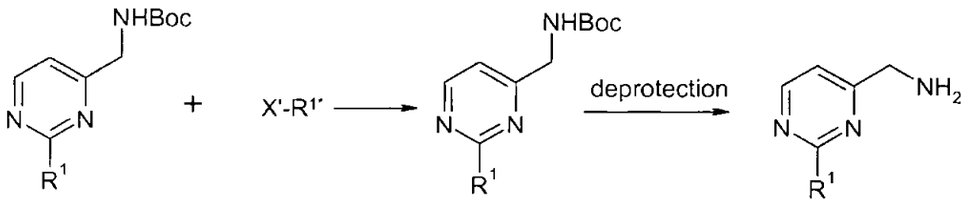
(VI.1b) (X)

In scheme 5, R^1 is as defined above and Boc is tert-butyloxycarbonyl.

According to the process depicted in scheme 5, the hydrogenation of the nitrile (VIb.1) in the presence of a catalyst. such as Raney nickel or palladium-on-carbon and t-butyl dicarbonate gives the N-protected compound (X). On treating with hydrogen bromide/glacial acetic acid or with trifluoroacetic acid containing water, the compound (X) can be deprotected to yield a pyrimidin-4-ylmethyl amine compounds (II) carrying a substituent in the 2-position.

Compounds of the formula (II) wherein R^1 is alkoxy, haloalkoxy, alkylthio or haloalkylthio can be prepared in analogy to standard processes from a compound of the formula (X) wherein R^1 is halogen, especially chlorine, for example in analogy to methods described in Journal of Heterocyclic Chemistry (2005), 42(7), 1369-1379, Tetrahedron Letters, 47(26), 4415-4418, 2006 or Chemical & Pharmaceutical Bulletin 31(12), 4533-8, 1983. This synthesis route is shown in scheme 6.

Scheme 6:



(X) (XI) (XII) (II)

(X) R^1 = halogen
(XII) R^1 = $R^{1'}$ = alkoxy, haloalkoxy, alkylthio or haloalkylthio
(II) R^1 = alkoxy, haloalkoxy, alkylthio or haloalkylthio

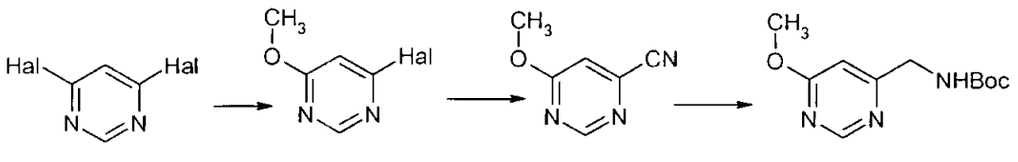
According to the process depicted in scheme 6, a compound of formula (XI) is reacted with a compound X'-$R^{1'}$ (also referred to hereinbelow as compounds of the formula (XI) to give a compound of formula (XII). Depending on the $R^{1'}$ group to be introduced, the

compounds of the formula (XI) are inorganic alkoxides, haloalkoxides, thiolates or halothiolates. The reaction is effected advantageously in an inert solvent. The cation X' in formula (XI) is of little importance; for practical reasons, ammonium salts, tetraalkylammonium salts such as tetramethylammonium or tetraethylammonium salts, or alkali metal salts or alkaline earth metal salts are typically preferred. Suitable solvents comprise ethers such as dioxane, diethyl ether, methyl tert-butyl ether and preferably tetrahydrofuran, halogenated hydrocarbons such as dichloromethane or dichloroethane, aromatic hydrocarbons such as toluene, and mixtures thereof. Deprotection of the amino group in formula (XII) to give the desired compound of the formula (II) can be accomplished as described in scheme 5 above.

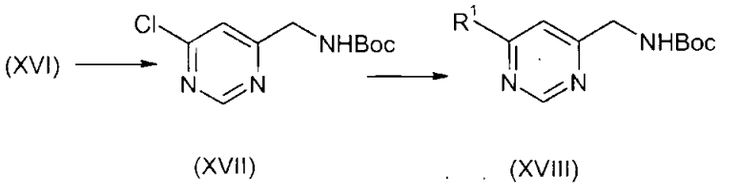
Compounds of the formula (II) in which R^1 is alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl or alkyl-cycloalkyl can advantageously be prepared by reacting compounds X in which R^1 is halogen with organometallic compounds R^{1a}-Mt where R^{1a} is alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl or alkyl-cycloalkyl and Mt is lithium, magnesium or zinc. The reaction is effected preferably in the presence of catalytic or, in particular, at least equimolar amounts of transition metal salts and/or compounds, in particular in the presence of Cu salts such as Cu(I) halides and especially Cu(I) iodide, or Pd-catalyzed. The reaction is effected generally in an inert organic solvent, for example one of the aforementioned ethers, in particular tetrahydrofuran, an aliphatic or cycloaliphatic hydrocarbon such as hexane, cyclohexane and the like, an aromatic hydrocarbon such as toluene, or in a mixture of these solvents. The temperatures required for this purpose are in the range of from -100 to +100°C and especially in the range from -80°C to +40°C.

Pyrimidin-4-ylmethylamine compounds (II) carrying a substituent in the 6-position can be prepared for example as exemplified in scheme 7.

Scheme 7:



(XIII) (XIV) (XV) (XVI)



(XVII) (XVIII)

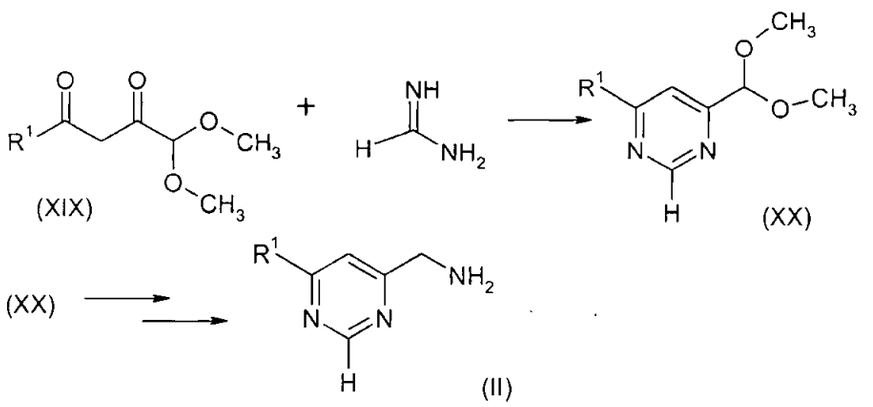
In scheme 7, R^1 is as defined above, Hal means halogen, especially chlorine, Boc means tert-butyloxycarbonyl.

Treatment of 4,6-dihalosubstituted pyrimidines (XIII) with methoxide yields a 4-halopyrimidine compound (XIV). XIV is treated with 1,4-diazabicyclo[2.2.2]octane (DABCO) and then with sodium cyanide to yield a cyano compound (XV). The hydrogenation of (XV) in the presence of a catalyst such as nickel and in the presence of t-butyl dicarbonate gives the N-protected compound (XVI). Treatment of (XVI) with trimethylsilyl iodide followed by treatment with phosphoryl chloride affords a 6-chloropyrimidine compound (XVII). The nucleophilic attack of a nucleophil, such as alkoxide, haloalkoxide, alkylthiolate, occurs at the 6-position in compound XVII to yield the desired pyrimidin-4-ylmethylamine compound (XVIII) carrying a substituent R^1 = alkoxide, haloalkoxide, alkylthiolate or halothiolates in the 6-position.

4,6-Dihalosubstituted pyrimidines are commercially available.

Pyrimidin-4-ylmethylamine compounds (II) carrying a substituent R^1 in the 6-position can also be prepared e.g. by the route outlined in scheme 8 below.

Scheme 8:



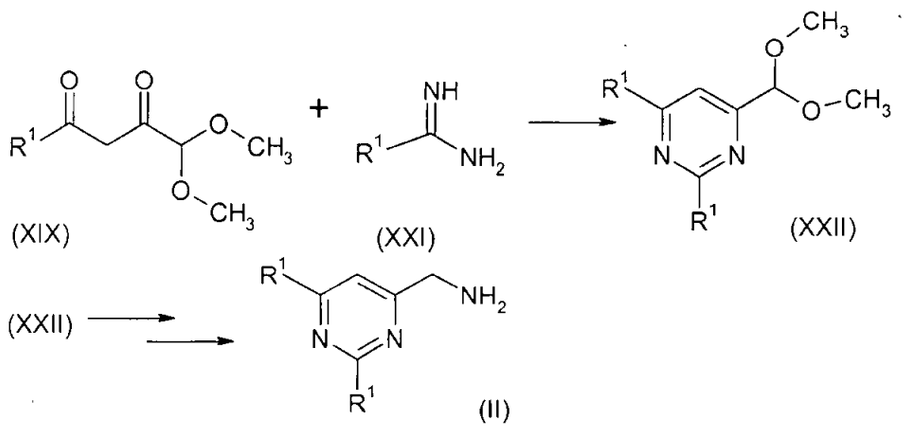
In scheme 8, R^1 is as defined above. According to the reaction depicted in scheme 8, compounds of the formula (II) can be prepared by reacting a carbonyl compound (XIX) with formamidine or a salt thereof, e.g. the hydrohalogenide such as the hydrochloride,

giving a pyrimidine of the formula (XX), which can be converted to compounds of the formula (II) as described in scheme 4. The conversion of compounds of the formula (XIX) into compounds (XX) can be achieved by analogy to conventional methods as described, e.g., in Journal of Combinatorial Chemistry, 7(4), 517-519, 2005, Helvetica Chimica Acta 86(5), 1598-1624, 2003 or in scheme 4, step 1. The conversion of compounds (XX) into compounds (II) can be achieved as described in scheme 4, steps (ii) and (iii).

Acid addition salts of formamidine are commercially available.

Pyrimidin-4-ylmethylamine compounds (II) carrying a substituent R^1 in the 6-position and a substituent R^1 in the 2-position can also be prepared e.g. by the route outlined in scheme 9 below.

Scheme 9:

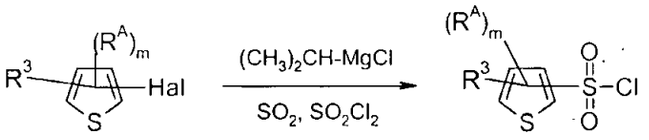


In scheme 9, R^1 is as defined above and each R^1 is selected independently of each other. According to the method of scheme 9, a carbonyl compound (XIX) is reacted with an amidine compound of the formula (XXI) giving a pyrimidine compound (XXII) which is converted into a compound of the formula (II) (for details, see scheme 8).

Sulfonyl compounds (III) are commercially available or can be obtained according to procedures known in the art.

The sulfonyl compound L-SO_2-A-R^3 of the formula (III) in which A is optionally substituted thiophenediyl and L is chlorine can be prepared according to the reaction scheme 10 below by treating a respective halide (XXIII) with alkylmagnesium halogenide such as $(CH_3)_2CH$-MgCl, SO_2 and SO_2Cl_2.

Scheme 10:



(XXIII) (III)

(A = optionally substituted thiophene)

In scheme 10, R^A and R^3 are as defined above, m is 0, 1, or 2 and Hal means halogen.

Pyridine-SO_3 or dioxane-SO_3 complex converts optionally substituted furan into optionallysubstituted furan-2-sulfonic acid (III).

Sulfonation of optionally substituted pyrrole with sulfur trioxide-pyridine complex affords mainly the 3-sulfonated pyrroles of formula (III), in which A is an optionally substituted pyrrolediyl and L is OH [Mizuno, A. et. al., Tetrahedron Lett. 2000, 41, 6605.].

Sulfonation of optionally substituted imidazole and pyrazole, respectively, with oleum under heating yields optionally substituted imidazole-4-sulfonic acid and optionally substituted pyrrazole-4-sulfonic acid.

Sulfonation of optionally substituted isothiazole and isoxazole, respectively, with oleum takes usually place at the 4-position, provided that this position is unsubstituted to yield the corresponding sulfonated isothiazole and isoxazole, respectively. Sulfonation of optionally substituted thiazole with oleum at 250°C in the presence of mercury(II)-acetate occurs usually at the 5-position to yield the corresponding sulfonated thiazole.

Pyridine-2-sulfonic acid, pyridine-3-sulfonic acid and pyridine-4-sulfonic acid are commerically available. For example, sulfonation of pyridine with oleum at 250°C in the presence of Hg(II) as catalyst yields pyridine-3-sulfonic acid. Heating of pyridine-3-sulfonic acid at 360°C or sulfonation of pyridine at 360°C affords the pyridine-4-sulfonic acid. Pyridine-4-sulfonic acid can also be prepared starting from pyridine and thionyl chloride to afford N-(4-pyridyl)pyridinium chloride hydrochloride followed by the treatment of N-(4-pyridyl)pyridinium chloride hydrochloride with sodium sulfite heptahydrate to yield sodium 4-pyridine sulfonate. The treatment of sodium 4-pyridine sulfonate with an HCl affords pyridine-4-sulfonic acid [cf. Organic Syntheses, Coll. Vol. 5, p.977 (1973); Vol. 43, p.97 (1963).

Compounds of the formula (III), wherein A is optionally substituted phenylene are know from prior art cited in the introductory part.

Compounds of the formula (I) with R^2 = H can be converted by conventional processes such as alkylation. Examples of suitable alkylating agents include alkyl halides, such as alkyl chloride, alkyl bromide or alkyl iodide, examples being methyl chloride, methyl bromide or methyl iodide, or dialkyl sulfates such as dimethyl sulfate or diethyl sulfate. The reaction with the alkylating agent is carried out advantageously in the presence of a solvent. Solvents used for these reactions are - depending on temperature range - aliphatic, cycloaliphatic or aromatic hydrocarbons such as hexane, cyclohexane, toluene, xylene, chlorinated aliphatic and aromatic hydrocarbons such as dichloromethane, chlorobenzene, open-chain dialkyl ethers such as diethyl ether, di-n-propyl ether, methyl tert-butyl ether, cyclic ethers such as tetrahydrofuran, 1,4-dioxane, glycol ethers such as dimethyl glycol ether, or mixtures of these solvents.

The N-oxides may be prepared from the compounds (I) according to conventional oxidation methods, for example by treating compounds (I) with an organic peracid such as metachloroperbenzoic acid [Journal of Medicinal Chemistry 38(11), 1892-903 (1995), WO 03/64572]; or with inorganic oxidizing agents such as hydrogen peroxide [cf. Journal of Heterocyclic Chemistry 18(7), 1305-8 (1981)] or oxone [cf. Journal of the American Chemical Society 123(25), 5962-5973 (2001)]. The oxidation may lead to pure mono-N-oxides or to a mixture of different N-oxides, which can be separated by conventional methods such as chromatography.

If individual compounds (I) cannot be obtained by the routes described above, they can be prepared by derivatization of other compounds I.

If the synthesis yields mixtures of isomers, a separation is generally not necessarily required since in some cases the individual isomers can be interconverted during work-up for use or during application (for example under the action of light, acids or bases). Such conversions may also take place after use, for example in the treatment of plants in the treated plant, or in the harmful fungus or pest to be controlled.

The compounds (I) are suitable as fungicides. They are distinguished by an outstanding effectiveness against a broad spectrum of phytopathogenic fungi, especially from the classes of the Ascomycetes, Basidiomycetes, Deuteromycetes and Peronosporomycetes (syn. Oomycetes). Some are systemically effective and they can be used in crop protection as foliar fungicides, fungicides for seed dressing and soil fungicides.

They are particularly important in the control of a multitude of fungi on various cultivated plants, such as wheat, rye, barley, oats, rice, corn, lawns, bananas, cotton, soybeans, coffee, sugar cane, grapevines, fruit and ornamental plants, and vegetables, such as cucumbers, beans, tomatoes, potatoes and cucurbits, and on the seeds of these plants.

They are especially suitable for controlling the following plant diseases:

- Alternaria species on vegetables, rape, sugar beets, fruit and rice (e.g. A. solani or A. alternata on potatoes and tomatoes),
- Aphanomyces species on sugar beets and vegetables,
- Ascochyta species on cereals and vegetables,
- Bipolaris and Drechslera species on corn, cereals, rice and lawns (e.g. D. maydis on corn),
- Blumeria graminis (powdery mildew) on cereals,
- Botrytis cinerea (gray mold) on strawberries, vegetables, ornamental plants and grapevines,
- Bremia lactucae on lettuce,
- Cerospora species on corn, soybeans, rice and sugar beets,
- Cochliobolus species on corn, cereals, rice (e.g. Cochliobolus sativus on cereals, Cochliobolus miyabeanus on rice),
- Colletotricum species on soybeans and cotton,
- Drechslera species, Pyrenophora species on corn, cereals, rice and lawns (e.g. D. teres on barley or D. tritici-repentis on wheat),
- Esca on grapevines, caused by Phaeoacremonium chlamydosporium, Ph. Aleophilum and Formitipora punctata (syn. Phellinus punctatus),
- Elsinoe ampelina on grapevines,
- Exserohilum species on corn,
- Erysiphe cichoracearum and Sphaerotheca fuliginea on cucurbits,
- Fusarium and Verticillium species on various plants (e.g. F. graminearum or F. culmorum on cereals or F. oxysporum on various plants, e.g. tomatoes),
- Gaeumanomyces graminis on cereals,
- Gibberella species on cereals and rice (e.g. Gibberella fujikuroi on rice),
- Glomerella cingulata on grapevines and other plants,
- Grainstaining complex on rice,
- Guignardia budwelli on grapevines,
- Helminthosporium species on corn and rice,
- Isariopsis clavispora on grapevines,
- Michrodochium nivale on cereals,

- Mycosphaerella species on cereals, bananas and peanuts (e.g. M. graminicola on wheat or M. fijiesis on bananas),
- Peronospora species on cabbage and onion plants (e.g. P. brassicae on cabbage or P. destructor on onions),
- Phakopsara pachyrhizi and Phakopsara meibomiae on soybeans,
- Phomopsis species on soybeans and sun flowers, P. viticola on grapevines,
- Phytophthora infestans on potatoes and tomatoes,
- Phytophthora species on various plants (e.g. P. capsici on paprika),
- Plasmopara viticola on grapevines,
- Podosphaera leucotricha on apples,
- Pseudocercosporella herpotrichoides on cereals,
- Pseudoperonospora on various plants (e.g. P. cubensis on cocumber or P. humili on hops),
- Pseudopezicula tracheiphilai on grapevines,
- Puccinia species on various plants (e.g. P. triticina , P. striformins , P. hordei or P. graminis on cereals or P. asparagi on asparagus),
- Pyricularia oryzae, Corticium sasakii , Sarocladium oryzae, S.attenuatum, Entyloma oryzae on rice,
- Pyricularia grisea on lawns and cereals,
- Pythium spp. on lawns, rice, corn, cotton, rape, sun flowers, sugar beets, vegetables and other plants (e.g. P. ultiumum on various plants, P. aphanidermatum on lawns),
- Rhizoctonia species on cotton, rice, potatoes, lawns, corn, rape, sugar beets, vegetables and on various plants (e.g. R. solani on beets and various plants),
- Rhynchosporium secalis on barley, rye and triticale,
- Sclerotinia species on rape and sun flowers,
- Septoria tritici and Stagonospora nodorum on wheat,
- Erysiphe (syn. Uncinula) necator on grapevines,
- Setospaeria species on corn and lawns,
- Sphacelotheca reilinia on corn,
- Sphaerotheca fuliginea on cucumber,
- Thievaliopsis species on soybeans and cotton,
- Tilletia species on cereals,
- Ustilago species on cereals, corn and sugar cane (e.g. U. maydis on corn),
- Venturia species (scab) on apples and pears (e.g. V. inaequalis on apples).

The compounds (I) are also suitable for controlling harmful fungi in the protection of materials (e.g. wood, paper, paint dispersions, fiber or fabrics) and in the protection of stored products. As to the protection of wood, the following harmful fungi are worthy of

note: Ascomycetes such as Ophiostoma spp., Ceratocystis spp., Aureobasidium pullulans, Sclerophoma spp., Chaetomium spp., Humicola spp., Petriella spp., Trichurus spp.; Basidiomycetes such as Coniophora spp., Coriolus spp., Gloeophyllum spp., Lentinus spp., Pleurotus spp., Poria spp., Serpula spp. and Tyromyces spp., Deuteromycetes such as Aspergillus spp., Cladosporium spp., Penicillium spp., Trichoderma spp., Alternaria spp., Paecilomyces spp. and Zygomycetes such as Mucor spp., and in addition in the protection of stored products the following yeast fungi are worthy of note: Candida spp. and Saccharomyces cerevisae.

The compounds (I) are employed by treating the fungi or the plants, seeds, materials or the soil to be protected from fungal attack with a fungicidally effective amount of the active compounds. The application can be carried out both before and after the infection of the materials, plants or seeds by the fungi.

The fungicidal compositions generally comprise between 0.1 and 95%, preferably between 0.5 and 90%, by weight of active compound. The active compounds are employed in a purity of from 90% to 100%, preferably from 95% to 100% (according to NMR spectrum).

When employed in plant protection, the amounts applied are, depending on the kind of effect desired, between 0.01 and 2.0 kg of active compound per ha.

In seed treatment, for example by dusting, coating or drenching seed, amounts of active compound of from 0.1 g to 10 kg, frequently 1 to 1000 g, preferably from 5 to 100 g, per 100 kilogram of seed are generally required.

When used in the protection of materials or stored products, the amount of active compound applied depends on the kind of application area and on the desired effect. Amounts customarily applied in the protection of materials are, for example, 0.001 g to 2 kg, preferably 0.005 g to 1 kg, of active compound per cubic meter of treated material.

In addition the compounds of the formula (I) may also be used in cultures which can tolerate insecticidal or fungal attack due to cultivation, including of genetic engineering.

The compounds of the formula (I) are furthermore suitable for controlling pests from the classes of the insects, arachnids and nematodes effectively. They can be used as pesticides in crop protection and in the sectors of hygiene and the protection of stored

products and the veterinary sector.

They may act by contact or may be stomach-acting, or have systemic or residual action. Contact action means that the pest is killed by coming into contact with a compound I or with material that releases compound I. Stomach-acting means that the pest is killed if it ingests a pesticidially effective amount of the compound I or material containing a pesticidally effective amount of compound I. Systemic action means that the compound is absorbed into the plant tissues of treated plant and the pest is controlled, if it eats plant tissue or sucks plant-sap.

Compounds (I) are in particular suitable for controlling the following insect pests:

insects from the order of Lepidoptera, for example Agrotis ypsilon, Agrotis segetum, Alabama argillacea, Anticarsia gemmatalis, Argyresthia conjugella, Autographa gamma, Bupalus piniarius, Cacoecia murinana, Capua reticulana, Cheimatobia brumata, Choristoneura fumiferana, Choristoneura occidentalis, Cirphis unipuncta, Cydia pomonella, Dendrolimus pini, Diaphania nitidalis, Diatraea grandiosella, Earias insulana, Elasmopalpus lignosellus, Eupoecilia ambiguella, Evetria bouliana, Feltia subterranea, Galleria mellonella, Grapholitha funebrana, Grapholitha molesta, Heliothis armigera, Heliothis virescens, Heliothis zea, Hellula undalis, Hibernia defoliaria, Hyphantria cunea, Hyponomeuta malinellus, Keiferia lycopersicella, Lambdina fiscellaria, Laphygma exigua, Leucoptera coffeella, Leucoptera scitella, Lithocolletis blancardella, Lobesia botrana, Loxostege sticticalis, Lymantria dispar, Lymantria monacha, Lyonetia clerkella, Malacosoma neustria, Mamestra brassicae, Orgyia pseudotsugata, Ostrinia nubilalis, Panolis flammea, Pectinophora gossypiella, Peridroma saucia, Phalera bucephala, Phthorimaea operculella, Phyllocnistis citrella, Pieris brassicae, Plathypena scabra, Plutella xylostella, Pseudoplusia includens, Rhyacionia frustrana, Scrobipalpula absoluta, Sitotroga cerealella, Sparganothis pilleriana, Spodoptera eridania, Spodoptera frugiperda, Spodoptera littoralis, Spodoptera litura, Thaumatopoea pityocampa, Tortrix viridana, Trichoplusia ni and Zeiraphera canadensis,

from the order of Coleoptera (beetles), for example Agrilus sinuatus, Agriotes lineatus, Agriotes obscurus, Amphimallus solstitialis, Anisandrus dispar, Anthonomus grandis, Anthonomus pomorum, Atomaria linearis, Blastophagus piniperda, Blitophaga undata, Bruchus rufimanus, Bruchus pisorum, Bruchus lentis, Byctiscus betulae, Cassida nebulosa, Cerotoma trifurcata, Ceuthorrhynchus assimilis, Ceuthorrhynchus napi, Chaetocnema tibialis, Conoderus vespertinus, Crioceris asparagi, Diabrotica longicornis, Diabrotica 12-punctata, Diabrotica virgifera, Epilachna varivestis, Epitrix

hirtipennis, Eutinobothrus brasiliensis, Hylobius abietis, Hypera brunneipennis, Hypera postica, Ips typographus, Lema bilineata, Lema melanopus, Leptinotarsa decemlineata, Limonius californicus, Lissorhoptrus oryzophilus, Melanotus communis, Meligethes aeneus, Melolontha hippocastani, Melolontha melolontha, Oulema oryzae, Ortiorrhynchus sulcatus, Otiorrhynchus ovatus, Phaedon cochleariae, Phyllotreta chrysocephala, Phyllophaga sp., Phyllopertha horticola, Phyllotreta nemorum, Phyllotreta striolata, Popillia japonica, Sitona lineatus and Sitophilus granaria,

from the order of Diptera, for example Aedes aegypti, Aedes vexans, Anastrepha ludens, Anopheles maculipennis, Ceratitis capitata, Chrysomya bezziana, Chrysomya hominivorax, Chrysomya macellaria, Contarinia sorghicola, Cordylobia anthropophaga, Culex pipiens, Dacus cucurbitae, Dacus oleae, Dasineura brassicae, Fannia canicularis, Gasterophilus intestinalis, Glossina morsitans, Haematobia irritans, Haplodiplosis equestris, Hylemyia platura, Hypoderma lineata, Liriomyza sativae, Liriomyza trifolii, Lucilia caprina, Lucilia cuprina, Lucilia sericata, Lycoria pectoralis, Mayetiola destructor, Musca domestica, Muscina stabulans, Oestrus ovis, Oscinella frit, Pegomya hysocyami, Phorbia antiqua, Phorbia brassicae, Phorbia coarctata, Rhagoletis cerasi, Rhagoletis pomonella, Tabanus bovinus, Tipula oleracea and Tipula paludosa,

from the order of Thysanoptera (thrips), e.g. Dichromothrips spp., Frankliniella fusca, Frankliniella occidentalis, Frankliniella tritici, Scirtothrips citri, Thrips oryzae, Thrips palmi and Thrips tabaci,

ants, bees, wasps, sawflies from the order of (Hymenoptera) e.g. Athalia rosae, Atta cephalotes, Atta cephalotes. Atta laevigata, Atta robusta, Atta capiguara, Atta sexdens, Atta texana, Crematogaster spp., Hoplocampa minuta, Hoplocampa testudinea, Monomorium pharaonis, Solenopsis geminata, and Solenopsis invicta, Solenopsis richteri, Solenopsis xyloni, Pogonomyrmex barbatus, Pogonomyrmex californicus, Pheidole megacephala, Dasymutilla occidentalis, Bombus spp. Vespula squamosa, Paravespula vulgaris, Paravespula pennsylvanica, Paravespula germanica, Dolichovespula maculata, Vespa crabro, Polistes rubiginosa, Camponotus floridanus, and Linepithema humile,

from the order of Homoptera, e.g. Acyrthosiphon onobrychis, Adelges laricis, Aphidula nasturtii, Aphis craccivora, Aphis fabae, Aphis forbesi, Aphis pomi, Aphis gossypii, Aphis grossulariae, Aphis schneideri, Aphis spiraecola, Aphis sambuci, Acyrthosiphon pisum, Aulacorthum solani, Bemisa tabaci, Bemisa argentifolii, Brachycaudus cardui, Brachycaudus helichrysi, Brachycaudus persicae, Brachycaudus prunicola,

Brevicoryne brassicae, Capitophorus horni, Cerosipha gossypii, Chaetosiphon fragaefolii, Cryptomyzus ribis, Dreyfusia nordmannianae, Dreyfusia piceae, Dysaphis radicola, Dysaulacorthum pseudosolani, Dysaphis plantaginea, Dysaphis pyri, Empoasca fabae, Hyalopterus pruni, Hyperomyzus lactucae, Macrosiphum avenae, Macrosiphum euphorbiae, Macrosiphon rosae, Megoura viciae, Melanaphis pyrarius, Metopolophium dirhodum, Myzodes persicae, Myzus ascalonicus, Myzus cerasi, Myzus varians, Nasonovia ribis-nigri, Nilaparvata lugens, Pemphigus bursarius, Perkinsiella saccharicida, Phorodon humuli, Psylla mali, Psylla piri, Rhopalomyzus ascalonicus, Rhopalosiphum maidis, Rhopalosiphum padi, Rhopalosiphum insertum, Sappaphis mala, Sappaphis mali, Schizaphis graminum, Schizoneura lanuginosa, Sitobion avenae, Trialeurodes vaporariorum, Toxoptera aurantiiand, and Viteus vitifolii,

from the order of Isoptera (termites), e.g. Calotermes flavicollis, Heterotermes aureus, Leucotermes flavipes, Reticulitermes flavipes, Reticulitermes virginicus, Reticulitermes lucifugus, aund Termes natalensis, and Coptotermes formosanus,

cockroaches (Blattaria - Blattodea), e.g. Blattella germanica, Blattella asahinae, Periplaneta americana, Periplaneta japonica, Periplaneta brunnea, Periplaneta fuligginosa, Periplaneta australasiae, and Blatta orientalis,

true bugs (Hemiptera), e.g. Acrosternum hilare, Blissus leucopterus, Cyrtopeltis notatus, Dysdercus cingulatus, Dysdercus intermedius, Eurygaster integriceps, Euschistus impictiventris, Leptoglossus phyllopus, Lygus lineolaris, Lygus pratensis, Nezara viridula, Piesma quadrata, Solubea insularis , Thyanta perditor, Acyrthosiphon onobrychis, Adelges laricis, Aphidula nasturtii, Aphis fabae, Aphis forbesi, Aphis pomi, Aphis gossypii, Aphis grossulariae, Aphis schneideri, Aphis spiraecola, Aphis sambuci, Acyrthosiphon pisum, Aulacorthum solani, Bemisia argentifolii, Brachycaudus cardui, Brachycaudus helichrysi, Brachycaudus persicae, Brachycaudus prunicola, Brevicoryne brassicae, Capitophorus horni, Cerosipha gossypii, Chaetosiphon fragaefolii, Cryptomyzus ribis, Dreyfusia nordmannianae, Dreyfusia piceae, Dysaphis radicola, Dysaulacorthum pseudosolani, Dysaphis plantaginea, Dysaphis pyri, Empoasca fabae, Hyalopterus pruni, Hyperomyzus lactucae, Macrosiphum avenae, Macrosiphum euphorbiae, Macrosiphon rosae, Megoura viciae, Melanaphis pyrarius, Metopolophium dirhodum, Myzus persicae, Myzus ascalonicus, Myzus cerasi, Myzus varians, Nasonovia ribis-nigri, Nilaparvata lugens, Pemphigus bursarius, Perkinsiella saccharicida, Phorodon humuli, Psylla mali, Psylla piri, Rhopalomyzus ascalonicus, Rhopalosiphum maidis, Rhopalosiphum padi, Rhopalosiphum insertum, Sappaphis mala, Sappaphis mali, Schizaphis graminum, Schizoneura lanuginosa, Sitobion

avenae, Trialeurodes vaporariorum, Toxoptera aurantiiand, Viteus vitifolii, Cimex lectularius, Cimex hemipterus, Reduvius senilis, Triatoma spp., and Arilus critatus,

crickets, grasshoppers, locusts from the order of (Orthoptera), e.g. Acheta domestica, Blatta orientalis, Blattella germanica, Calliptamus italicus, Chortoicetes terminifera, Dociostaurus maroccanus, Forficula auricularia, Gryllotalpa gryllotalpa, Hieroglyphus daganensis, Kraussaria angulifera, Locusta migratoria, Locustana pardalina, Melanoplus bivittatus, Melanoplus femur-rubrum, Melanoplus mexicanus, Melanoplus sanguinipes, Melanoplus spretus, Nomadacris septemfasciata, Oedaleus senegalensis, Periplaneta americana, Schistocerca americana, Schistocerca peregrina, Schistocerca gregaria, Stauronotus maroccanus and, Tachycines asynamorus, Tachycines asynamorus, Zonozerus variegatus.

The compounds of the formula (I) and their salts are also useful for controlling arachnids (Arachnoidea), such as acarians (Acarina), e.g. of the families Argasidae, Ixodidae and Sarcoptidae, such as Amblyomma americanum, Amblyomma variegatum, Ambryomma maculatum, Argas persicus, Boophilus annulatus, Boophilus decoloratus, Boophilus microplus, Dermacentor silvarum, Dermacentor andersoni, Dermacentor variabilis, Hyalomma truncatum, Ixodes ricinus, Ixodes rubicundus, Ixodes scapularis, Ixodes holocyclus, Ixodes pacificus, Ornithodorus hermsi, Ornithodorus turicata, Ornithonyssus bacoti, Ornithodorus moubata, Otobius megnini, Dermanyssus gallinae, Psoroptes ovis, Rhipicephalus sanguineus, Rhipicephalus appendiculatus, Rhipicephalus evertsi, Sarcoptes scabiei, and Eriophyidae spp. such as Aculus schlechtendali, Phyllocoptrata oleivora and Eriophyes sheldoni; Tarsonemidae spp. such as Phytonemus pallidus and Polyphagotarsonemus latus; Tenuipalpidae spp. such as Brevipalpus phoenicis; Tetranychidae spp. such as Tetranychus cinnabarinus, Tetranychus kanzawai, Tetranychus pacificus, Tetranychus telarius and Tetranychus urticae, Panonychus ulmi, Panonychus citri, and oligonychus pratensis.and Oligonychus pratensis; Araneida, e.g. Latrodectus mactans, and Loxosceles reclusa,

fleas (Siphonaptera), e.g. Ctenocephalides felis, Ctenocephalides canis, Xenopsylla cheopis, Pulex irritans, Tunga penetrans, and Nosopsyllus fasciatus,

silverfish, firebrat (Thysanura), e.g. Lepisma saccharina and Thermobia domestica,

centipedes (Chilopoda), e.g. Scutigera coleoptrata,

millipedes (Diplopoda), e.g. Narceus spp.,

earwigs (Dermaptera), e.g. forficula auricularia,

lice (Phthiraptera), e.g. Pediculus humanus capitis, Pediculus humanus corporis, Pthirus pubis, Haematopinus eurysternus, Haematopinus suis, Linognathus vituli, Bovicola bovis, Menopon gallinae, Menacanthus stramineus and Solenopotes capillatus.

The compounds of the formula (I), their N-oxides and their salts are also useful for controlling nematodes, for example, root gall nematodes, e.g. Meloidogyne hapla, Meloidogyne incognita, Meloidogyne javanica, cyst-forming nematodes, e.g. Globodera rostochiensis, Heterodera avenae, Heterodera glycines, Heterodera schachtii, Heterodera trifolii, stem and leaf nematodes, e.g. Belonolaimus longicaudatus, Ditylenchus destructor, Ditylenchus dipsaci, Heliocotylenchus multicinctus, Longidorus elongatus, Radopholus similis, Rotylenchus robustus, Trichodorus primitivus, Tylenchorhynchus claytoni, Tylenchorhynchus dubius, Pratylenchus neglectus, Pratylenchus penetrans, Pratylenchus curvitatus and Pratylenchus goodeyi.

Compounds of the formula (I) are particularly useful for controlling insects of the order Lepidoptera.

In general, the insecticidal compositions comprise from 0.01 to 95% by weight, preferably from 0.1 to 90% by weight, of the active compound. The active compounds are employed in a purity of from 90% to 100%, preferably from 95% to 100% (according to NMR spectrum).

Under outdoor conditions, the active compound application rate for controlling pests is from 0.1 to 2.0, preferably from 0.2 to 1.0, kg/ha.

The compounds (I), their N-oxides and salts can be converted into customary formulations (agricultural formulations), e.g. solutions, emulsions, suspensions, dusts, powders, pastes and granules. The application form depends on the particular intended purpose; in each case, it should ensure a fine and uniform distribution of the compound according to the invention.

The formulations are prepared in a known manner, e.g. by extending the active ingredient with solvents and/or carriers, if desired using emulsifiers and dispersants. Solvents/auxiliaries, which are suitable, are essentially:

- water, aromatic solvents (for example Solvesso® products, xylene), paraffins (for example mineral fractions), alcohols (for example methanol, butanol, pentanol,

benzyl alcohol), ketones (for example cyclohexanone, gamma-butyrolactone), pyrrolidones (N-methylpyrrolidone, N-octylpyrrolidone), acetates (glycol diacetate), glycols, fatty acid dimethylamides, fatty acids and fatty acid esters. In principle, solvent mixtures may also be used.

- carriers such as ground natural minerals (e.g. kaolins, clays, talc, chalk) and ground synthetic minerals (e.g. highly disperse silica, silicates); emulsifiers such as nonionic and anionic emulsifiers (e.g. polyoxyethylene fatty alcohol ethers, alkyl-sulfonates and arylsulfonates) and dispersants such as lignin-sulfite waste liquors and methylcellulose.

Suitable surfactants are alkali metal, alkaline earth metal and ammonium salts of lignosulfonic acid, naphthalenesulfonic acid, phenolsulfonic acid, dibutylnaphthalene-sulfonic acid, alkylarylsulfonates, alkyl sulfates, alkylsulfonates, fatty alcohol sulfates, fatty acids and sulfated fatty alcohol glycol ethers, furthermore condensates of sulfonated naphthalene and naphthalene derivatives with formaldehyde, condensates of naphthalene or of naphthalenesulfonic acid with phenol and formaldehyde, polyoxy-ethylene octylphenyl ether, ethoxylated isooctylphenol, octylphenol, nonylphenol, alkylphenyl polyglycol ethers, tributylphenyl polyglycol ether, tristearylphenyl polyglycol ether, alkylaryl polyether alcohols, alcohol and fatty alcohol/ethylene oxide condensates, ethoxylated castor oil, polyoxyethylene alkyl ethers, ethoxylated polyoxypropylene, lauryl alcohol polyglycol ether acetal, sorbitol esters, lignin-sulfite waste liquors and methylcellulose.

Substances which are suitable for the preparation of directly sprayable solutions, emulsions, pastes or oil dispersions are mineral oil fractions of medium to high boiling point, such as kerosene or diesel oil, furthermore coal tar oils and oils of vegetable or animal origin, aliphatic, cyclic and aromatic hydrocarbons, for example toluene, xylene, paraffin, tetrahydronaphthalene, alkylated naphthalenes or their derivatives, methanol, ethanol, propanol, butanol, cyclohexanol, cyclohexanone, isophorone, strongly polar solvents, for example dimethyl sulfoxide, N-methylpyrrolidone and water.

Also anti-freezing agents such as glycerin, ethylene glycol and propylene glycol can be added to the formulation.

Suitable antifoaming agents are, for example, those based on silicone or magnesium stearate.

Powders, materials for spreading and dusts can be prepared by mixing or concomitantly grinding the active substances with a solid carrier.

Granules, for example coated granules, impregnated granules and homogeneous granules, can be prepared by binding the active ingredients to solid carriers. Examples of solid carriers are mineral earths such as silica gels, silicates, talc, kaolin, attaclay, limestone, lime, chalk, bole, loess, clay, dolomite, diatomaceous earth, calcium sulfate, magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers, such as, for example, ammonium sulfate, ammonium phosphate, ammonium nitrate, ureas, and products of vegetable origin, such as cereal meal, tree bark meal, wood meal and nutshell meal, cellulose powders and other solid carriers.

Formulations for the treatment of seed may additionally comprise binders and/or gelling agents and, if appropriate, colorants.

Binders may be added to increase the adhesion of the active compounds on the seed after the treatment. Suitable binders are, for example, EO/PO block copolymer surfactants, but also polyvinyl alcohols, polyvinylpyrrolidones, polyacrylates, polymethacrylates, polybutenes, polyisobutylenes, polystyrenes, polyethylenamines, polyethylenamides, polyethylenimines (Lupasol®, Polymin®), polyethers, polyurethanes, polyvinyl acetates, tylose and copolymers of these polymers.

A suitable gelling agent is, for example, carrageen (Satiagel®).

In general, the formulations comprise from 0.01 to 95% by weight, preferably from 0.1 to 90% by weight, of the active compound. The active compounds are employed in a purity of from 90% to 100%, preferably from 95% to 100% (according to NMR spectrum).

The concentrations of active compound in the ready-for-use preparations can be varied within relatively wide ranges. In general, they are between 0.0001 and 10%, preferably between 0.01 and 1%.

The active compounds can also be used with great success in the ultra-low volume (ULV) process, it being possible to apply formulations with more than 95% by weight of active compound or even the active compound without additives.

For the treatment of seed, the formulations in question give, after two-to-tenfold dilution, active compound concentrations of from 0.01 to 60% by weight, preferably from 0.1 to 40% by weight, in the ready-to-use preparations.

The following are examples of formulations: 1. Products for dilution with water

A) Water-soluble concentrates (SL, LS)

10 parts by weight of a compound I according to the invention are dissolved in 90 parts by weight of water or in a water-soluble solvent. As an alternative, wetting agents or other auxiliaries are added. The active compound dissolves upon dilution with water. In this way, a formulation having a content of 10% by weight of active compound is obtained.

B) Dispersible concentrates (DC)

20 parts by weight of a compound I according to the invention are dissolved in 70 parts by weight of cyclohexanone with addition of 10 parts by weight of a dispersant, for example polyvinylpyrrolidone. Dilution with water gives a dispersion. The active compound content is 20% by weight.

C) Emulsifiable concentrates (EC)

15 parts by weight of a compound I according to the invention are dissolved in 75 parts by weight of xylene with addition of calcium dodecylbenzenesulfonate and castor oil ethoxylate (in each case 5 parts by weight). Dilution with water gives an emulsion. The formulation has an active compound content of 15% by weight.

D) Emulsions (EW, EO, ES)

25 parts by weight of a compound I according to the invention are dissolved in 35 parts by weight of xylene with addition of calcium dodecylbenzenesulfonate and castor oil ethoxylate (in each case 5 parts by weight). This mixture is introduced into 30 parts by weight of water by means of an emulsifying machine (Ultraturrax) and made into a homogeneous emulsion. Dilution with water gives an emulsion. The formulation has an active compound content of 25% by weight.

E) Suspensions (SC, OD, FS)

In an agitated ball mill, 20 parts by weight of a compound I according to the invention are comminuted with addition of 10 parts by weight of dispersants and wetting agents and 70 parts by weight of water or an organic solvent to give a fine active compound suspension. Dilution with water gives a stable suspension of the active compound. The active compound content in the formulation is 20% by weight.

F) Water-dispersible granules and water-soluble granules (WG, SG)

50 parts by weight of a compound I according to the invention are ground finely with addition of 50 parts by weight of dispersants and wetting agents and prepared as

water-dispersible or water-soluble granules by means of technical appliances (for example extrusion, spray tower, fluidized bed). Dilution with water gives a stable dispersion or solution of the active compound. The formulation has an active compound content of 50% by weight.

G) Water-dispersible powders and water-soluble powders (WP, SP, SS, WS)
75 parts by weight of a compound I according to the invention are ground in a rotor-stator mill with addition of 25 parts by weight of dispersants, wetting agents and silica gel. Dilution with water gives a stable dispersion or solution of the active compound. The active compound content of the formulation is 75% by weight.

H) Gel (GF)
In an agitated ball mill, 20 parts by weight of a compound I according to the invention are comminuted with addition of 10 parts by weight of dispersants, 1 part by weight of a gelling agent wetters and 70 parts by weight of water or of an organic solvent to give a fine suspension of the active compound. Dilution with water gives a stable suspension of the active compound, whereby a formulation with 20% (w/w) of active compound is obtained.

2. Products to be applied undiluted

J) Dustable powders (DP, DS)
5 parts by weight of a compound I according to the invention are ground finely and mixed intimately with 95 parts by weight of finely divided kaolin. This gives a dustable product having an active compound content of 5% by weight.

K) Granules (GR, FG, GG, MG)
0.5 parts by weight of a compound I according to the invention is ground finely and associated with 99.5 parts by weight of carriers. Current methods are extrusion, spray-drying or the fluidized bed. This gives granules to be applied undiluted having an active compound content of 0.5% by weight.

L) ULV solutions (UL)
10 parts by weight of a compound I according to the invention are dissolved in 90 parts by weight of an organic solvent, for example xylene. This gives a product to be applied undiluted having an active compound content of 10% by weight.

The active ingredients can be used as such, in the form of their formulations or the use forms prepared therefrom, eg. in the form of directly sprayable solutions, powders,

suspensions or dispersions, emulsions, oil dispersions, pastes, dustable products, materials for spreading, or granules, by means of spraying, atomizing, dusting, spreading or pouring. The use forms depend entirely on the intended purposes; it is intended to ensure in each case the finest possible distribution of the active ingredients according to the invention.

Aqueous use forms can be prepared from emulsion concentrates, pastes or wettable powders (sprayable powders, oil dispersions) by adding water. To prepare emulsions, pastes or oil dispersions, the substances, as such or dissolved in an oil or solvent, can be homogenized in water by means of a wetter, tackifier, dispersant or emulsifier. Alternatively, it is possible to prepare concentrates composed of active substance, wetter, tackifier, dispersant or emulsifier and, if appropriate, solvent or oil, and such concentrates are suitable for dilution with water.

The active ingredient concentrations in the ready-to-use products can be varied within relatively wide ranges. In general, they are from 0.0001 to 10%, preferably from 0.001 to 1%.

The active ingredients may also be used successfully in the ultra-low-volume process (ULV), it being possible to apply formulations comprising over 95% by weight of active ingredient, or even to apply the active ingredient without additives.

Various types of oils, wetters, adjuvants, herbicides, fungicides, other pesticides, or bactericides may be added to the active compounds, if appropriate not until immediately prior to use (tank mix). These agents can be admixed with the agents according to the invention in a weight ratio of 1:10 to 10:1.

The compositions according to the invention can, in the use form as fungicides, also be present together with other active compounds, e.g. with herbicides, insecticides, growth regulators, fungicides or else with fertilizers. Mixing the compounds (I) or the compositions comprising them in the use form as fungicides with other fungicides results in many cases in an expansion of the fungicidal spectrum of activity being obtained.

The following list of fungicides, in conjunction with which the compounds according to the invention can be used, is intended to illustrate the possible combinations but does not limit them:

- acylalanines, such as benalaxyl, metalaxyl, ofurace or oxadixyl,

- amine derivatives, such as aldimorph, dodine, dodemorph, fenpropimorph, fenpropidin, guazatine, iminoctadine, spiroxamine or tridemorph,
- anilinopyrimidines, such as pyrimethanil, mepanipyrim or cyprodinil,
- antibiotics, such as cycloheximide, griseofulvin, kasugamycin, natamycin, polyoxin or streptomycin,
- azoles, such as bitertanol, bromoconazole, cyproconazole, difenoconazole, dinitroconazole, enilconazole, epoxiconazole, fenbuconazole, fluquinconazole, flusilazole, flutriafol, hexaconazole, imazalil, ipconazole, metconazole, myclobutanil, penconazole, propiconazole, prochloraz, prothioconazole, simeconazole, tebuconazole,
tetraconazole, triadimefon, triadimenol, triflumizole or triticonazole,
- dicarboximides, such as iprodione, myclozolin, procymidone or vinclozolin,
- dithiocarbamates, such as ferbam, nabam, maneb, mancozeb, metam, metiram, propineb, polycarbamate, thiram, ziram or zineb,
- heterocyclic compounds, such as anilazine, benomyl, boscalid, carbendazim, carboxin, oxycarboxin, cyazofamid, dazomet, dithianon, famoxadone, fenamidone, fenarimol, fuberidazole, flutolanil, furametpyr, isoprothiolane, mepronil, nuarimol, picobenzamide, probenazole, proquinazid, pyrifenox, pyroquilon, quinoxyfen, silthiofam, thiabendazole, thifluzamide, thiophanate-methyl, tiadinil, tricyclazole or triforine,
- copper fungicides, such as Bordeaux mixture, copper acetate, copper oxychloride or basic copper sulfate,
- nitrophenyl derivatives, such as binapacryl, dinocap, dinobuton or nitrophthal-isopropyl,
- phenylpyrroles, such as fenpiclonil or fludioxonil,
- sulfur,
- other fungicides, such as acibenzolar-S-methyl, benthiavalicarb, carpropamid, chlorothalonil, cyflufenamid, cymoxanil, diclomezine, diclocymet, diethofencarb, edifenphos, ethaboxam, fenhexamid, fentin acetate, fenoxanil, ferimzone, fluazinam, fosetyl, fosetyl-aluminum, phosphorous acid, iprovalicarb, hexachlorobenzene, metrafenone, pencycuron, penthropyrad, propamocarb, phthalide, toloclofos-methyl, quintozene or zoxamide,
- strobilurins, such as azoxystrobin, dimoxystrobin, enestroburin, fluoxastrobin, kresoxim-methyl, metominostrobin, orysastrobin, picoxystrobin, pyraclostrobin or trifloxystrobin,
- sulfenic acid derivatives, such as captafol, captan, dichlofluanid, folpet or tolylfluanid,
- cinnamides and analogous compounds, such as dimethomorph, flumetover or flumorph.

Compositions of this invention may also contain other active ingredients, for example other pesticides such as insecticides and herbicides, fertilizers such as ammonium nitrate, urea, potash, and superphosphate, phytotoxicants and plant growth regulators, safeners and nematicides. These additional ingredients may be used sequentially or in combination with the above-described compositions, if appropriate also added only immediately prior to use (tank mix). For example, the plant(s) may be sprayed with a composition of this invention either before or after being treated with other active ingredients.

These agents usually are admixed with the agents according to the invention in a weight ratio of 1:100 to 100:1.

The following list of pesticides together with which the compounds according to the invention can be used, is intended to illustrate the possible combinations, but not to impose any limitation:

A.1. Organo(thio)phosphates: e.g. acephate, azamethiphos, azinphos-methyl, chlorpyrifos, chlorpyrifos-methyl, chlorfenvinphos, diazinon, dichlorvos, dicrotophos, dimethoate, disulfoton, ethion, fenitrothion, fenthion, isoxathion, malathion, methamidophos, methidathion, methyl-parathion, mevinphos, monocrotophos, oxydemeton-methyl, paraoxon, parathion, phenthoate, phosalone, phosmet, phosphamidon, phorate, phoxim, pirimiphos-methyl, profenofos, prothiofos, sulprophos, tetrachlorvinphos, terbufos, triazophos, trichlorfon;

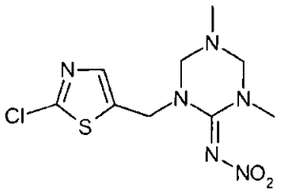
A.2. Carbamates: e.g. alanycarb, aldicarb, bendiocarb, benfuracarb, carbaryl, carbofuran, carbosulfan, fenoxycarb, furathiocarb, methiocarb, methomyl, oxamyl, pirimicarb, propoxur, thiodicarb, triazamate;

A.3. Pyrethroids: e.g. allethrin, bifenthrin, cyfluthrin, cyhalothrin, cyphenothrin, cypermethrin, alpha-cypermethrin, beta-cypermethrin, zeta-cypermethrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, fenvalerate, imiprothrin, lambda-cyhalothrin, permethrin, prallethrin, pyrethrin I and II, resmethrin, silafluofen, tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, transfluthrin, profluthrin, dimefluthrin;

A.4. Growth regulators: a) chitin synthesis inhibitors: e.g. benzoylureas: chlorfluazuron, diflubenzuron, flucycloxuron, flufenoxuron, hexaflumuron, lufenuron, novaluron, teflubenzuron, triflumuron; buprofezin, diofenolan, hexythiazox, etoxazole, clofentazine; b) ecdysone antagonists: e.g. halofenozide, methoxyfenozide, tebufenozide,

azadirachtin; c) juvenoids: e.g. pyriproxyfen, methoprene, fenoxycarb; d) lipid biosynthesis inhibitors: e.g. spirodiclofen, spiromesifen or spirotetramat;

A.5. Nicotinic receptor agonists/antagonists compounds (nicotinoid insecticides or neonicotinoids): e.g. clothianidin, dinotefuran, imidacloprid, thiamethoxam, nitenpyram, acetamiprid, thiacloprid or the thiazol compound of formula P1



(P1)

A.6. GABA antagonist compounds: e.g. acetoprole, endosulfan, ethiprole, fipronil, vaniliprole, pyrafluprole, pyriprole, 5-amino-3-(aminothiocarbonyl)-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(trifluoromethylsulfinyl)-pyrazole;

A.7. Macrocyclic lactone insecticides: abamectin, emamectin, milbemectin, lepimectin, spinosad,

A.8. Mitochondrial complex I electron transport inhibitors (METI I compounds): e.g. fenazaquin, pyridaben, tebufenpyrad, tolfenpyrad, flufenerim;

A.9. Mitochondrial complex II and/or complex III electron transport inhibitors (METI II and III compounds): e.g. acequinocyl, fluacyprim, hydramethylnon;

A.10. Uncoupler compounds: e.g. chlorfenapyr;

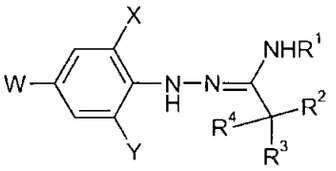
A.11. Oxidative phosphorylation inhibitor compounds: cyhexatin, diafenthiuron, fenbutatin oxide, propargite;

A.12. Moulting disruptor compounds: e.g. cyromazine;

A.13. Mixed function oxidase inhibitor compounds: e.g. piperonyl butoxide;

A.14. Sodium channel blocker compounds: e.g. indoxacarb, metaflumizone,

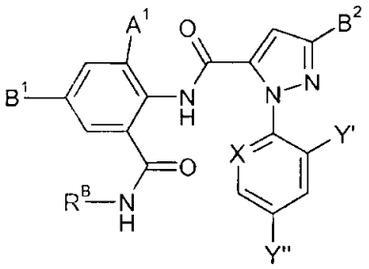
A.15. Various: benclothiaz, bifenazate, cartap, flonicamid, pyridalyl, pymetrozine, sulfur, thiocyclam, flubendiamide, cyenopyrafen, flupyrazofos, cyflumetofen, amidoflumet, compounds of the formula P2:



(P2)

wherein X and Y are each independently halogen, in particular chlorine;
W is halogen or C_1-C_2-haloalkyl, in particular trifluoromethyl;
R^1 is C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_4-alkoxy-C_1-C_4-alkyl or C_3-C_6-cycloalkyl each of which may be substituted with 1, 2, 3, 4 or 5 halogen atoms; in particular R^1 is methyl or ethyl;
R^2 and R^3 are C_1-C_6-alkyl, in particular methyl, or may form together with the adjacent carbon atom a C_3-C_6-cycloalkyl moiety, in particular a cyclopropyl moiety, which may carry 1, 2 or 3 halogen atoms, examples including 2,2-dichlorocyclopropyl and 2,2-dibromocyclopropyl; and
R^4 is hydrogen or C_1-C_6-alkyl, in particular hydrogen methyl or ethyl;

anthranilamide compounds of formula P3



P3

wherein A^1 is CH_3, Cl, Br, I, X is C-H, C-Cl, C-F or N, Y' is F, Cl, or Br, Y'' is F, Cl, CF_3, B^1 is hydrogen, Cl, Br, I, CN, B^2 is Cl, Br, CF_3, OCH_2CF_3, OCF_2H, and R^B is hydrogen, CH_3 or $CH(CH_3)_2$;

and malononitrile compounds as described in JP 2002/284608, WO 02/89579, WO 02/90320, WO 02/90321, WO 04/06677, WO 04/20399 or JP 2004/99597.

Suitable pesticides compounds also include microorganisms such as Bacillus thuringiensis, Bacillus tenebrionis and Bacillus subtilis.

The aforementioned compositions are particularly useful for protecting plants against infestation of said pests and also for protecting plants against infections of phytopathogenic fungi or to combat these pests/fungi in infested/infected plants.

However, the compounds of formula (I) are also suitable for the treatment of seeds. Application to the seeds is carried out before sowing, either directly on the seeds or after having pregerminated the latter.

Compositions which are useful for seed treatment are e.g.:

A Soluble concentrates (SL, LS)

D Emulsions (EW, EO, ES)

E Suspensions (SC, OD, FS)

F Water-dispersible granules and water-soluble granules (WG, SG)

G Water-dispersible powders and water-soluble powders (WP, SP, WS)

H Dustable powders (DP, DS)

Preferred FS formulations of compounds of formula (I) for seed treatment usually comprise from 0.5 to 80% of the active ingredient, from 0,05 to 5% of a wetter, from 0.5 to 15% of a dispersing agent, from 0,1 to 5% of a thickener, from 5 to 20% of an anti-freeze agent, from 0,1 to 2% of an anti-foam agent, from 1 to 20% of a pigment and/or a dye, from 0 to 15% of a sticker / adhesion agent, from 0 to 75% of a filler/vehicle, and from 0,01 to 1% of a preservative.

Suitable pigments or dyes for seed treatment formulations are pigment blue 15:4, pigment blue 15:3, pigment blue 15:2, pigment blue 15:1, pigment blue 80, pigment yellow 1, pigment yellow 13, pigment red 112, pigment red 48:2, pigment red 48:1, pigment red 57:1, pigment red 53:1, pigment orange 43, pigment orange 34, pigment orange 5, pigment green 36, pigment green 7, pigment white 6, pigment brown 25, basic violet 10, basic violet 49, acid red 51, acid red 52, acid red 14, acid blue 9, acid yellow 23, basic red 10, basic red 108.

Stickers / adhesion agents are added to improve the adhesion of the active materials on the seeds after treatment. Suitable adhesives are block copolymers EO/PO surfactants but also polyvinylalcohols, polyvinylpyrrolidones, polyacrylates, polymethacrylates, polybutenes, polyisobutylenes, polystyrene, polyethyleneamines, polyethyleneamides, polyethyleneimines (Lupasol®, Polymin®), polyethers and copolymers derived from these polymers.

For use against ants, termites, wasps, flies, mosquitos, crickets, or cockroaches, compounds of formula (I) are preferably used in a bait composition.

The bait can be a liquid, a solid or a semisolid preparation (e.g. a gel). Solid baits can be formed into various shapes and forms suitable to the respective application e.g.

granules, blocks, sticks, disks. Liquid baits can be filled into various devices to ensure proper application, e.g. open containers, spray devices, droplet sources, or evaporation sources. Gels can be based on aqueous or oily matrices and can be formulated to particular necessities in terms of stickyness, moisture retention or aging characteristics.

The bait employed in the composition is a product which is sufficiently attractive to incite insects such as ants, termites, wasps, flies, mosquitos, crickets etc. or cockroaches to eat it. The attractiveness can be manipulated by using feeding stimulants or sex pheromones. Food stimulants are chosen, for example, but not exclusively, from animal and/or plant proteins (meat-, fish- or blood meal, insect parts, egg yolk), from fats and oils of animal and/or plant origin, or mono-, oligo- or polyorganosaccharides, especially from sucrose, lactose, fructose, dextrose, glucose, starch, pectin or even molasses or honey. Fresh or decaying parts of fruits, crops, plants, animals, insects or specific parts thereof can also serve as a feeding stimulant. Sex pheromones are known to be more insect specific. Specific pheromones are described in the literature and are known to those skilled in the art.

Formulations of compounds of formula (I) as aerosols (e.g in spray cans), oil sprays or pump sprays are highly suitable for the non-professional user for controlling pests such as flies, fleas, ticks, mosquitos or cockroaches. Aerosol recipes are preferably composed of the active compound, solvents such as lower alcohols (e.g. methanol, ethanol, propanol, butanol), ketones (e.g. acetone, methyl ethyl ketone), paraffin hydrocarbons (e.g. kerosenes) having boiling ranges of approximately 50 to 250°C, dimethylformamide, N-methylpyrrolidone, dimethyl sulfoxide, aromatic hydrocarbons such as toluene, xylene, water, furthermore auxiliaries such as emulsifiers such as sorbitol monooleate, oleyl ethoxylate having 3-7 mol of ethylene oxide, fatty alcohol ethoxylate, perfume oils such as ethereal oils, esters of medium fatty acids with lower alcohols, aromatic carbonyl compounds, if appropriate stabilizers such as sodium benzoate, amphoteric surfactants, lower epoxides, triethyl orthoformate and, if required, propellants such as propane, butane, nitrogen, compressed air, dimethyl ether, carbon dioxide, nitrous oxide, or mixtures of these gases.

The oil spray formulations differ from the aerosol recipes in that no propellants are used.

The compounds of formula (I) and its respective compositions can also be used in mosquito and fumigating coils, smoke cartridges, vaporizer plates or long-term vaporizers and also in moth papers, moth pads or other heat-independent vaporizer systems.

The compounds of formula (I) and its compositions can be used for protecting non-living material, in particular cellulose-based materials such as wooden materials e.g. trees, board fences, sleepers, etc. and buildings such as houses, outhouses, factories, but also construction materials, furniture, leathers, fibers, vinyl articles, electric wires and cables etc. from ants and/or termites, and for controlling ants and termites from doing harm to crops or human being (e.g. when the pests invade into houses and public facilities). The compounds of formula (I) are applied not only to the surrounding soil surface or into the under-floor soil in order to protect wooden materials but it can also be applied to lumbered articles such as surfaces of the under-floor concrete, alcove posts, beams, plywoods, furniture, etc., wooden articles such as particle boards, half boards, etc. and vinyl articles such as coated electric wires, vinyl sheets, heat insulating material such as styrene foams, etc. In case of application against ants doing harm to crops or human beings, the ant controller of the present invention is applied to the crops or the surrounding soil, or is directly applied to the nest of ants or the like.

In the methods according to the invention the pests are controlled by contacting the target parasite/pest, its food supply, habitat, breeding ground or its locus with a pesticidally effective amount of at least one compounds (I), or the N-oxide or salt thereof, or with a composition, containing a pesticidally effective amount of at least one compound I, or the N-oxide or salt thereof.

"Locus" means a habitat, breeding ground, plant, seed, soil, area, material or environment in which a pest or parasite is growing or may grow.

In general, "pesticidally effective amount" means the amount of active ingredient needed to achieve an observable effect on growth, including the effects of necrosis, death, retardation, prevention, and removal, destruction, or otherwise diminishing the occurrence and activity of the target organism. The pesticidally effective amount can vary for the various compounds/compositions used in the invention. A pesticidally effective amount of the compositions will also vary according to the prevailing conditions such as desired pesticidal effect and duration, weather, target species, locus, mode of application, and the like.

The compounds (I) of the invention can also be applied preventively to places at which occurrence of the pests is expected.

The compounds of formula (I) may be also used to protect growing plants from attack or infestation by pests by contacting the plant with a pesticidally effective amount of

compounds of formula (I). As such, "contacting" includes both direct contact (applying the compounds/compositions directly on the pest and/or plant - typically to the foliage, stem or roots of the plant) and indirect contact (applying the compounds/compositions to the locus of the pest and/or plant).

The compounds (I) are employed by treating the fungi, pests or the plants, seeds, materials or the soil to be protected from fungal attack or pesticidal attack with a fungicidally or pesticidally effective amount of at least one active compound I, its N-oxide or salt. The application can be carried out both before and after the infection / infestation of the materials, plants or seeds by the fungi or pest.

When employed in plant protection, the amounts applied are, depending on the kind of effect desired, in the range of 0.1 g to 4000 g per hectare, desirably from 25 g to 600 g per hectare, more desirably from 50 g to 500 g per hectare.

In the treatment of seed, the application rates of the active compounds are generally from 0.001 g to 100 g per kg of seed, preferably from 0.01 g to 50 g per kg of seed, in particular from 0.01 g to 2 g per kg of seed.

In the case of soil treatment or of application to the pests dwelling place or nest, the quantity of active ingredient ranges from 0.0001 to 500 g per 100 m^2, preferably from 0.001 to 20 g per 100 m^2.

Customary application rates in the protection of materials are, for example, from 0.01 g to 1000 g of active compound per m^2 treated material, desirably from 0.1 g to 50 g per m^2.

Insecticidal compositions for use in the impregnation of materials typically contain from 0.001 to 95 weight %, preferably from 0.1 to 45 weight %, and more preferably from 1 to 25 weight % of at least one repellent and / or insecticide.

For use in bait compositions, the typical content of active ingredient is from 0.001 weight % to 15 weight %, desirably from 0.001 weight % to 5% weight % of active compound.

For use in spray compositions, the content of active ingredient is from 0.001 to 80 weights %, preferably from 0.01 to 50 weight % and most preferably from 0.01 to 15 weight %.

When used in the protection of materials or stored products, the amount of active compound applied depends on the kind of application area and on the desired effect. Amounts customarily applied in the protection of materials are, for example, 0.001 g to 2 kg, preferably 0.005 g to 1 kg, of active compound per cubic meter of treated material.

Under outdoor conditions, the active compound application rate for controlling pests is from 0.1 to 2.0, preferably from 0.2 to 1.0, kg/ha.

Various types of oils, wetters, adjuvants, herbicides, fungicides, other pesticides, or bactericides may be added to the active compounds, if appropriate not until immediately prior to use (tank mix). These agents can be admixed with the agents according to the invention in a weight ratio of 1:100 to 100:1, preferably 1:10 to 10:1.

Adjuvants which can be used are in particular organic modified polysiloxanes such as Break Thru S 240®; alcohol alkoxylates such as Atplus 245®, Atplus MBA 1303®, Plurafac LF 300® and Lutensol ON 30®; EO/PO block polymers, z. B. Pluronic RPE 2035® and Genapol B®; alcohol ethoxylates such as Lutensol XP 80®; and dioctyl sulfosuccinate sodium such as Leophen RA®.

Compounds of formula (I), their N-oxides and veterinarily acceptable salts as well as the compositions comprising them can also be used for controlling and preventing infestations and infections in animals including warm-blooded animals (including humans) and fish. They are for example suitable for controlling and preventing infestations and infections in mammals such as cattle, sheep, swine, camels, deer, horses, pigs, poultry, rabbits, goats, dogs and cats, water buffalo, donkeys, fallow deer and reindeer, and also in fur-bearing animals such as mink, chinchilla and raccoon, birds such as hens, geese, turkeys and ducks and fish such as fresh- and salt-water fish such as trout, carp and eels.

Infestations in warm-blooded animals and fish include, but are not limited to, lice, biting lice, ticks, nasal bots, keds, biting flies, muscoid flies, flies, myiasitic fly larvae, chiggers, gnats, mosquitoes and fleas.

The compounds of formula (I) and compositions comprising them are suitable for systemic and/or non-systemic control of ecto- and/or endoparasites. They are active against all or some stages of development.

Administration can be carried out both prophylactically and therapeutically. Administration of the active compounds (I)s carried out directly or in the form of suitable preparations, orally, topically/dermally or parenterally.

For oral administration to warm-blooded animals, the formula I compounds may be formulated as animal feeds, animal feed premixes, animal feed concentrates, pills, solutions, pastes, suspensions, drenches, gels, tablets, boluses and capsules. In addition, the formula I compounds may be administered to the animals in their drinking water. For oral administration, the dosage form chosen should provide the animal with 0.01 mg/kg to 100 mg/kg of animal body weight per day of the formula I compound, preferably with 0.5 mg/kg to 100 mg/kg of animal body weight per day.

Alternatively, the formula I compounds, their N-oxides and salts may be administered to animals parenterally, for example, by intraruminal, intramuscular, intravenous or subcutaneous injection. The formula I compounds may be dispersed or dissolved in a physiologically acceptable carrier for subcutaneous injection. Alternatively, the formula I compounds may be formulated into an implant for subcutaneous administration. In addition the formula I compound may be transdermally administered to animals. For parenteral administration, the dosage form chosen should provide the animal with 0.01 mg/kg to 100 mg/kg of animal body weight per day of the formula I compound.

The formula I compounds may also be applied topically to the animals in the form of dips, dusts, powders, collars, medallions, sprays, shampoos, spot-on and pour-on formulations and in ointments or oil-in-water or water-in-oil emulsions. For topical application, dips and sprays usually contain 0.5 ppm to 5,000 ppm and preferably 1 ppm to 3,000 ppm of the formula I compound. In addition, the formula I compounds may be formulated as ear tags for animals, particularly quadrupeds such as cattle and sheep.

Suitable preparations are:

- Solutions such as oral solutions, concentrates for oral administration after dilution, solutions for use on the skin or in body cavities, pouring-on formulations, gels;
- Emulsions and suspensions for oral or dermal administration; semi-solid preparations;
- Formulations in which the active compound is processed in an ointment base or in an oil-in-water or water-in-oil emulsion base;

- Solid preparations such as powders, premixes or concentrates, granules, pellets, tablets, boluses, capsules; aerosols and inhalants, and active compound-containing shaped articles.

Generally it is favorable to apply solid formulations which release compounds of formula (I) in total amounts of 10 mg/kg to 300 mg/kg, preferably 20 mg/kg to 200 mg/kg.

The active compounds can also be used as a mixture with synergists or with other active compounds which act against pathogenic endo- and ectoparasites.

In general, the compounds of formula (I) are applied in parasiticidally effective amount-meaning the amount of active ingredient needed to achieve an observable effect on growth, including the effects of necrosis, death, retardation, prevention, and removal, destruction, or otherwise diminishing the occurrence and activity of the target organism. The parasiticidally effective amount can vary for the various compounds/compositions used in the invention. A parasiticidally effective amount of the compositions will also vary according to the prevailing conditions such as desired parasiticidal effect and duration, target species, mode of application, and the like.

Synthesis examples

Preparation of intermediates:

I. Preparation of pyrimidinyl-4-yl methylamine compounds

I.1 Preparation of (2-methyl-pyrimidin-4-yl)-methylamine

I.1.1 4-Dimethoxymethyl-2-methyl-pyrimidine

Acetamidine hydrochloride (3 mol) and 4-dimethylamino-1,1-dimethoxy-but-3-en-2-one (2 mol) were mixed in methanol (500 ml) and the reaction mixture was warmed to 40°C. A solution of sodium methoxide in methanol (558 g, 30%) was added quickly and a brown suspension was formed. The reaction mixture was heated under reflux for 2 h, cooled to room temperature overnight followed by evaporation of methanol under reduced pressure. The resulting residue was taken up in dichloromethane (500 ml) and washed several times with water (100 mL). The solvent was removed to give 307 g of black oil. The distillation of this oil gave a colourless liquid of boiling point 55-58°C (0.5 mbar).

I.1.2 2-Methyl-pyrimidine-4-carbaldehyde oxime

To a solution of 4-dimethoxymethyl-2-methyl-pyrimidine (10 g) from I.1.1 in methanol (100 mL) was added 8.2 g of hydroxylamine hydrochloride and 10% HCl and the reaction mixture was heated under reflux for 2 h. After cooling to room temperature, the pH was adjusted to 8 using solid sodium carbonate. The mixture was stirred for 30 minutes. The solid was sucked off, dried at 50°C under reduced pressure to yield 6.0 g (73%) of the title compound as white solid.

I.1.3 (2-Methyl-pyrimidin-4-yl)-methylamine

An autoclave was charged with 2-methyl-pyrimidine-4-carbaldehyde oxime (13 g) from I.1.2, 150 ml of methanol and 70 ml of triethylamine. The autoclave was purged with nitrogen. To this mixture was added 3 g of a 10% palladium-on-carbon catalyst. The autoclave was sealed and purged twice with hydrogen gas. The hydrogenation was run for 2 h. In doing this, the reaction mixture was warmed up to 40°C in the meantime. The precipitate was filtered off, washed with methanol to yield the title compound as light red solid (11 g, 94%).

I.2 (2-Chloro-pyrimidin-4-ylmethyl)carbamic acid tert-butylester

2-Chloropyrimidine-4-carbonitrile (24 g), 40.8 g of t-butyl dicarbonate (Boc_2O) in 1.2 L of methanol and 5 g of Raney nickel (Raney 2400) were charged in an autoclave. The autoclave was sealed and purged with hydrogen. The hydrogenation was run at 30 psi hydrogen gas. The reduction was carried out to completion and the reactor was vented and purged with nitrogen. The reaction mixture was filtered over diatomaceous earth and the filtrate was concentrated. The residue was purified by chromatography to yield the title compound (35 g, 84%) as white solid of melting point of 86-88 °C.

II. Preparation of sulfonic acid amides (I)

Example 1: 4'-Chlorobiphenyl-4-sulfonic acid (pyrimidin-4-ylmethyl)-amide

Pyrimidin-4-yl-methylamine dihydrochloride (1.0 eq) and triethylamine (3.0 eq) were dissolved in acetonitrile (5 mL/ mmol) and the solution was cooled to 0°C. Chlorobiphenylsulfochloride (1.0 eq) was added in portions and the reaction mixture was warmed to room temperature overnight. The solvent was evaporated under reduced pressure and the residue was washed with cold water and diisopropyl ether. The title compound was obtained as beige solid.

Example 2: 4-Iodo-N-pyrimidin-4-ylmethylbenzenesulfonamide

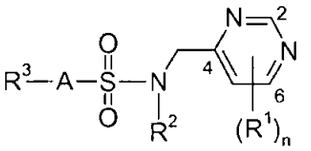
Pyrimidin-4-yl-methylamine dihydrochloride (1.0 eq) and triethylamine (3.0 eq) were dissolved in acetonitrile (5 mL/ mmol) and the solution was cooled to 0°C. 4-Iodobenzenesulfonic acid chloride (1.0 eq) was added in portions and the reaction mixture was warmed to room temperature. The solvent was evaporated under reduced pressure and the residue was washed with cold water and cold diisopropyl ether to yield the title compound as beige solid.

Example 3: 4'-Fluorobiphenyl-4-sulfonic acid (pyrimidin-4-ylmethyl) amide

The sulphonamide from example 2 (1.0 eq), 4-fluorophenylboronic acid and $Pd(PPh_3)_4$ were dissolved in dioxane (3 mL/mmol) und an aqueous solution of sodium carbonate (2mL/mmol) was added. The reaction mixture was heated under reflux overnight and after completion of the reaction the solvent was removed under reduced pressure. The residue was purified by chromatography to yield the title compound as beige solid.

The compounds listed in table I can be prepared in an analogous manner.

Table I



(I),

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
1	--	H	4-(4-Cl-phenyl)-phenyl	177
2	--	H	4-iodophenyl	133
3	--	H	4-(4-F-phenyl)-phenyl	128
4	2-$NH(CH_3)$	H	4-(4-F-phenyl)-phenyl	140
5	2-$NH(CH_3)$	H	4-(4-Cl-phenyl)-phenyl	177
6	2-$N(CH_3)_2$	H	4-(4-Cl-phenyl)-phenyl	122
7	2-$N(CH_3)_2$	H	4-(4-F-phenyl)-phenyl	146
8	2-SCH_3	H	4-(4-Cl-phenyl)-phenyl	148
9	2-SCH_3	H	4-(4-F-phenyl)-phenyl	168
10	--	H	6-(3-chloro-4-methoxy-phenyl)-pyridin-3-yl	154
11	2-$NH(CH_3)$	H	5-(4-Cl-phenyl)-thiophen-3-yl	141
12	2-$N(CH_3)_2$	H	5-(4-Cl-phenyl)-thiophen-3-yl	2.84
13	2-SCH_3	H	5-(4-Cl-phenyl)-thiophen-3-yl	3.53

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
14	2-$NH(CH_3)$	H	4-(4-CF_3-phenyl)-thiophen-2-yl	172
15	2-$NH(CH_3)$	H	4-(3-CN-phenyl)-thiophen-2-yl	201
16	2-$N(CH_3)_2$	H	4-(4-CF_3-phenyl)-thiophen-2-yl	2.94
17	2-$N(CH_3)_2$	H	4-(3-CN-phenyl)-thiophen-2-yl	2.49
18	2-SCH_3	H	4-(4-CF_3-phenyl)-thiophen-2-yl	3,61
19	2-SCH_3	H	4-(3-CN-phenyl)-thiophen-2-yl	3.09
20	2-SCH_3	H	6-(3-chloro-4-methoxy-phenyl)-pyridin-3-yl	178
21	2-$NH(CH_3)$	H	6-(3-chloro-4-methoxy-phenyl)-pyridin-3-yl	189
22	2-$NH(CH_3)$	H	6-(4-chloro-phenyl)-pyridin-3-yl	197
23	2-$N(CH_3)_2$	H	6-(4-chloro-phenyl)-pyridin-3-yl	152
24	2-SCH_3	H	6-(4-chloro-phenyl)-pyridin-3-yl	145
25	2-SCH_3	H	5-(3-chloro-4-methoxy-phenyl)-pyridin-2-yl	154
26	2-CH_3	H	4-(4-F-phenyl)-phenyl	118
27	2-cyclopropyl	H	4-(4-F-phenyl)-phenyl	110
28	2-CH_3	H	4-(4-Cl-phenyl)-phenyl	153
29	2-cyclopropyl	H	4-(4-Cl-phenyl)-phenyl	171
30	2-CH_3	H	5-(4-Cl-phenyl)-thiophen-2-yl	135
31	2-CH_3	H	5-(4-CF_3-phenyl)-thiophen-2-yl	121
32	2-cyclopropyl	H	5-(4-Cl-phenyl)-thiophen-2-yl	149
33	2-cyclopropyl	H	5-(4-CF_3-phenyl)-thiophen-2-yl	155
34	--	H	4-(phenyl)-phenyl	3.13
35	--	H	4-(2-Cl-phenyl)-phenyl	2.98
36	--	H	4-(3-Cl-phenyl)-phenyl	3.11
37	--	H	4-(4-Cl-phenyl)-phenyl	3.13
38	--	H	4-(2-F-phenyl)-phenyl	2.85
39	--	H	4-(3-F-phenyl)-phenyl	2.89
40	--	H	4-(4-F-phenyl)-phenyl	2.88
41	--	H	4-(2-CH_3-phenyl)-phenyl	2.99
42	--	H	4-(3-CH_3-phenyl)-phenyl	3.06
43	--	H	4-(4-CH_3-phenyl)-phenyl	3.07
44	--	H	4-(2-OCH_3-phenyl)-phenyl	2.85
45	--	H	4-(3-OCH_3-phenyl)-phenyl	2.84
46	--	H	4-(4-OCH_3-phenyl)-phenyl	2.82
47	--	H	4-(2-CF_3-phenyl)-phenyl	3.08
48	--	H	4-(3-CF_3-phenyl)-phenyl	3.21
49	--	H	4-(4-CF_3-phenyl)-phenyl	3.24

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
50	--	H	4-(3-CN-phenyl)-phenyl	2.64
51	--	H	4-(4-CN-phenyl)-phenyl	2.64
52	--	H	4-(2,4-difluoro-phenyl)-phenyl	2.93
53	--	H	4-(3,4-difluoro-phenyl)-phenyl	2.97
54	--	H	4-(2,4-dichloro-phenyl)-phenyl	3.32
55	--	H	4-(3,4-dichloro-phenyl)-phenyl	3.36
56	2-CH_3	H	4-phenoxy-phenyl	104
57	2-cyclopropyl	H	4-phenoxy-phenyl	118
58	2-SCH_3	H	4-phenoxy-phenyl	3.37
59	2-CH_3	H	4-(4-Cl-phenoxy)-phenyl	112
60	2-cyclopropyl	H	4-(4-Cl-phenoxy)-phenyl	144
61	2-SCH_3	H	4-(4-Cl-phenoxy)-phenyl	124
62	2-CH_3	H	4-(4-CF_3-phenyl)-thiophen-2-yl	121
63	2-CH_3	H	4-(3-CN-phenyl)-thiophen-2-yl	155
64	2-cyclopropyl	H	4-(4-CF_3-phenyl)-thiophen-2-yl	120
65	2-cyclopropyl	H	4-(3-CN-phenyl)-thiophen-2-yl	118
66	2-$N(CH_3)_2$	CH_3	4-(4-F-phenyl)-phenyl	2.94
67	2-$N(CH_3)_2$	CH_3	4-(4-Cl-phenyl)-phenyl	118
68	2-CH_3	H	benzo[b]furan-2-yl	129
69	2-cyclopropyl	H	benzo[b]furan-2-yl	161
70	2-CH_3	H	benzo[b]thiophen-3-yl	206
71	2-cyclopropyl	H	benzo[b]thiophen-3-yl	143
72	2-CH_3	H	5-chloro-3-methyl-benzo[b]thiophen-2-yl	162
73	2-cyclopropyl	H	5-chloro-3-methyl-benzo[b]thiophen-2-yl	121
74	--	H	4-(4-F-phenyl)-5-methyl-thiophen-2-yl	3.13
75	2-CH_3	H	4-(4-F-phenyl)-5-methyl-thiophen-2-yl	3.21
76	2-cyclopropyl	H	4-(4-F-phenyl)-5-methyl-thiophen-2-yl	3.24
77	2-SCH_3	H	4-(4-F-phenyl)-5-methyl-thiophen-2-yl	3.45
78	2-CH_3	H	3-(4-Cl-phenoxy)-phenyl	3.11
79	2-cyclopropyl	H	3-(4-Cl-phenoxy)-phenyl	3.40
80	2,6-dimethyl	H	3-(4-Cl-phenoxy)-phenyl	3.01
81	2-CH_3	H	3-phenoxy-phenyl	3.82
82	2,6-dimethyl	H	3-phenoxy-phenyl	2.73
83	2-cyclopropyl	H	3-phenoxy-phenyl	126
84	2-CH_3	H	4-(4-F-phenyl)-5-CF_3-thiophen-2-yl	83
85	2-cyclopropyl	H	4-(4-F-phenyl)-5-CF_3-thiophen-2-yl	110

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
86	2-SCH_3	H	4-(4-F-phenyl)-5-CF_3-thiophen-2-yl	92
87	2,6-dimethyl	H	4-(4-Cl-phenyl)-phenyl	124
88	2-OCH_3	H	4-(4-Cl-phenyl)-phenyl	134
89	6-OCH_3	H	4-(4-Cl-phenyl)-phenyl	183
90	2,6-dimethyl	H	5-(4-CF_3-phenyl)-thiophen-2-yl	157
91	2-OCH_3	H	5-(4-CF_3-phenyl)-thiophen-2-yl	107
92	6-OCH_3	H	5-(4-CF_3-phenyl)-thiophen-2-yl	157
93	2-OCH_3	H	6-(3-chloro-4-methoxy-phenyl)-pyridin-3-yl	182
94	2-OCH_3	H	4-(4-CF_3-phenyl)-thiophen-2-yl	117
95	2-OCH_3	H	4-(3-CN-phenyl)-thiophen-2-yl	147
96	6-OCH_3	H	4-(3-CN-phenyl)-thiophen-2-yl	146
97	6-OCH_3	H	6-(3-chloro-4-methoxy-phenyl)-pyridin-3-yl	172
98	--	H	1-(4-fluoro-phenyl)-1H-pyrazol-4-yl	157
99	2-CH_3	H	1-(4-fluoro-phenyl)-1H-pyrazol-4-yl	142
100	2,6-dimethyl	H	1-(4-fluoro-phenyl)-1H-pyrazol-4-yl	180
101	2-cyclopropyl	H	1-(4-fluoro-phenyl)-1H-pyrazol-4-yl	101
102	2-SCH_3	H	1-(4-fluoro-phenyl)-1H-pyrazol-4-yl	2.63
103	--	H	1-(4-F-phenyl)-1H-pyrrol-3-yl	114
104	2-CH_3	H	1-(4-F-phenyl)-1H-pyrrol-3-yl	109
105	2,6-dimethyl	H	1-(4-F-phenyl)-1H-pyrrol-3-yl	2.33
106	2-cyclopropyl	H	1-(4-F-phenyl)-1H-pyrrol-3-yl	2.72
107	2-SCH_3	H	1-(4-F-phenyl)-1H-pyrrol-3-yl	2.98
108	--	H	1-(4-F-phenyl)-1H-imidazol-4-yl	2.08
109	2-CH_3	H	1-(4-F-phenyl)-1H-imidazol-4-yl	2.07
110	2-cyclopropyl	H	1-(4-F-phenyl)-1H-imidazol-4-yl	148
111	2-SCH_3	H	1-(4-F-phenyl)-1H-imidazol-4-yl	2.59
112	2-cyclopropyl	H	2-(4-F-phenyl)-thiazol-5-yl	131
113	2-cyclopropyl	H	4-(4-F-phenyl)-thiazol-2-yl	167
114	2-SCH_3	H	4-(4-F-phenyl)-thiazol-2-yl	136
115	--	H	2-(4-F-phenyl)-thiazol-5-yl	153
116	2-CH_3	H	2-(4-F-phenyl)-thiazol-5-yl	171
117	--	H	4-(4-F-phenyl)-thiazol-2-yl	117
118	2-CH_3	H	4-(4-F-phenyl)-thiazol-2-yl	164
119	--	H	4-(3-CN-phenyl)-thiophen-2-yl	2.63
120	--	H	4-(4-Cl-phenyl)-thiophen-2-yl	3.05
121	--	H	4-(3,4-Cl_2-phenyl)-thiophen-2-yl	3.28

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
122	--	H	4-(2,4-Cl_2-phenyl)-thiophen-2-yl	2.91
123	--	H	4-(3,4-F_2-phenyl)-thiophen-2-yl	2.88
124	--	H	4-(2,4-F_2-phenyl)-thiophen-2-yl	2.59
125	--	H	4-(4-CN-phenyl)-thiophen-2-yl	2.47
126	--	H	6-phenyl-pyridin-3-yl	2.63
127	--	H	6-(3-F-phenyl)-pyridin-3-yl	2.59
128	--	H	6-(4-F-phenyl)-pyridin-3-yl	2.39
129	--	H	6-(2-methoxy-phenyl)-pyridin-3-yl	3.05
130	--	H	6-(3-CF_3-phenyl)-pyridin-3-yl	3.02
131	--	H	6-(4-CF_3-phenyl)-pyridin-3-yl	3.04
132	--	H	5-(4-methyl-phenyl)-thiophen-2-yl	3.05
133	--	H	5-(4-Cl-phenyl)-thiophen-2-yl	3,12
134	--	H	5-(2-methoxy-phenyl)-thiophen-2-yl	2.83
135	--	H	4-(2-F-phenyl)-thiophen-2-yl	2.79
136	--	H	4-(3-CF_3-phenyl)-thiophen-4-yl	3.14
137	--	H	6-(2-Cl-phenyl)-pyridin-3-yl	2.55
138	--	H	4-(2-Cl-phenyl)-thiophen-2-yl	2.91
139	--	H	6-(3-Cl-phenyl)-pyridin-3-yl	2.87
140	--	H	6-(2-F-phenyl)-pyridin-3-yl	2.51
141	--	H	6-(2-CH_3-phenyl)-pyridin-3-yl	2.51
142	--	H	6-(3-CH_3-phenyl)-pyridin-3-yl	2.72
143	--	H	6-(4-CH_3-phenyl)-pyridin-3-yl	2.72
144	--	H	6-(3-OCH_3-phenyl)-pyridin-3-yl	2.56
145	--	H	6-(4-OCH_3-phenyl)-pyridin-3-yl	2.51
146	--	H	6-(3-CN-phenyl)-pyridin-3-yl	2.45
147	--	H	6-(4-CN-phenyl)-pyridin-3-yl	2.45
148	--	H	6-(2,4-difluoro-phenyl)-pyridin-3-yl	2.63
149	--	H	6-(3,4-difluoro-phenyl)-pyridin-3-yl	2.76
150	--	H	6-(2,4-dichloro-phenyl)-pyridin-3-yl	2.94
151	--	H	6-(4-chloro-phenyl)-pyridin-3-yl	2.97
152	--	H	5-(2-CH_3-phenyl)-thiophen-2-yl	2.96
153	--	H	5-(3-CH_3-phenyl)-thiophen-2-yl	3.09
154	--	H	5-(2-Cl-phenyl)-thiophen-2-yl	2.95
155	--	H	5-(3-Cl-phenyl)-thiophen-2-yl	3.09
156	--	H	5-(4-OCH_3-phenyl)-thiophen-2-yl	2.83
157	--	H	5-(3-OCH_3-phenyl)-thiophen-2-yl	2.86

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
158	--	H	5-(3,4-difluoro-phenyl)-thiophen-2-yl	2.97
159	--	H	5-(2-CF_3-phenyl)-thiophen-2-yl	3.06
160	--	H	5-(3-F-phenyl)-thiophen-2-yl	2.88
161	--	H	5-(4-F-phenyl)-thiophen-2-yl	2.86
162	--	H	5-(3-CN-phenyl)-thiophen-2-yl	2.66
163	--	H	5-(4-CN-phenyl)-thiophen-2-yl	2.65
164	--	H	5-(3-CF_3-phenyl)-thiophen-2-yl	3.19
165	--	H	5-(4-CF_3-phenyl)-thiophen-2-yl	3.24
166	--	H	5-(2,4-dichloro-phenyl)-thiophen-2-yl	3.39
167	--	H	5-(3,4-dichloro-phenyl)-thiophen-2-yl	3.36
168	--	H	4-phenyl-thiophen-2-yl	2.73
169	--	H	4-(3-Cl-phenyl)-thiophen-2-yl	3.03
170	--	H	4-(3-F-phenyl)-thiophen-2-yl	2.82
171	--	H	4-(4-F-phenyl)-thiophen-2-yl	2.80
172	--	H	4-(3-CH_3-phenyl)-thiophen-2-yl	2.97
173	--	H	4-(4-CH_3-phenyl)-thiophen-2-yl	2.98
174	--	H	4-(2-OCH_3-phenyl)-thiophen-2-yl	2.81
175	--	H	4-(3-OCH_3-phenyl)-thiophen-2-yl	2.78
176	--	H	4-(4-OCH_3-phenyl)-thiophen-2-yl	2.75
177	--	H	4-(4-CF_3-phenyl)-thiophen-2-yl	3.17
178	--	H	5-phenyl-thiophen-2-yl	2.80
179	--	H	5-(2,4-difluoro-phenyl)-thiophen-2-yl	2.92
180	--	H	4-(2-methyl-phenyl)-thiophen-2-yl	2.91
181	--	H	4-(2-CF_3-phenyl)-thiophen-2-yl	3.01
182	--	H	6-(2-CF_3-phenyl)-pyridin-3-yl	2.67
183	5,6-dimethyl	H	5-(4-Cl-phenyl)-thiophen-2-yl	100
184	6-CH_3	H	5-(4-Cl-phenyl)-thiophen-2-yl	139
185	2-SCH_3, 6-CH_3	H	4-(4-Cl-phenoxy)-phenyl	171
186	2-Cl	H	4-(4-Cl-phenyl)-phenyl	155
187	2-OCH_3, 6-CH_3	H	4-(4-Cl-phenoxy)-phenyl	154
188	2,6-dimethyl	H	1-(4-F-phenyl)-1H-imidazol-4-yl	165
189	5,6-dimethyl	H	4-(4-Cl-phenoxy)-phenyl	121
190	2,6-dimethyl	H	5-(4-Cl-phenyl)-thiophen-2-yl	151
191	2-OCH_3,	H	5-(4-Cl-phenyl)-thiophen-2-yl	163

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
	6-CH_3			
192	2,5,6-trimethyl	H	5-(4-Cl-phenyl)-thiophen-2-yl	168
193	2-SCH_3, 6-CH_3	H	5-(4-Cl-phenyl)-thiophen-2-yl	146
194	6-$N(CH_3)_2$	H	4-(4-Cl-phenoxy)-phenyl	161
195	2,6—dimethyl	H	4-(4-F-phenyl)-thiazol-2-yl	164
196	6-CH_3	H	4-(4-Cl-phenyl)-phenyl	143
197	2,5,6-trimethyl	H	4-(4-Cl-phenyl)-phenyl	155
198	2-OCH_3	H	4-(2,4-difluorophenoxy)-phenyl	3.14
199	--	H	4-(4-Cl-phenoxy)-phenyl	121
200	2-CH_3	H	4-phenoxyphenyl	104
201	2-cyclopropyl	H	4-phenoxyphenyl	118
202	2-SCH_3	H	4-phenoxyphenyl	3.14
203	2-CH_3	H	4-(4-Cl-phenoxy)-phenyl	112
204	2-cyclopropyl	H	4-(4-Cl-phenoxy)-phenyl	144
205	2-SCH_3	H	4-(4-Cl-phenoxy)-phenyl	124
206	6-CH_3	H	4-(4-Cl-phenoxy)-phenyl	126
207	2,6-$(CH_3)_2$	H	4-(4-Cl-phenoxy)-phenyl	107
208	5,6-$(CH_3)_2$	H	4-(4-Cl-phenoxy)-phenyl	121
209	2-OCH_3, 6-CH_3	H	4-(4-Cl-phenoxy)-phenyl	154
210	2-OCH_3	H	4-(2,4-F_2-phenoxy)-phenyl	3.09
211	2-S(O)CH_3	H	4-(4-Cl-phenoxy)-phenyl	70
212	2-$S(O)_2CH_3$	H	4-(4-Cl-phenoxy)-phenyl	3.16
213	2-SCH_3	H	4-(2,4-F_2-phenoxy)-phenyl	2.91*
214	6-$SCHF_2$	H	4-(2,4-F_2-phenoxy)-phenyl	3.29*
215	6-SCF_3	H	4-(2,4-F_2-phenoxy)-phenyl	3.40*
216	2-SCF_3	H	4-(2,4-F_2-phenoxy)-phenyl	3.65*
217	2-SCF_3	H	4-(4-Cl-phenoxy)-phenyl	3.53*
218	2-$SCHF_2$	H	4-(2,4-F_2-phenoxy)-phenyl	3.38*
219	2-$SCHF_2$	H	4-(4-Cl-phenoxy)-phenyl	3.52*
220	2-$OCHF_2$	H	4-(4-Cl-phenoxy)-phenyl	3.42*
221	2-$OCHF_2$	H	4-(2,4-F_2-phenoxy)-phenyl	3.26*
222	--	H	4-(4-Cl-phenoxy)-phenyl	121
223	--	H	4-(2,4-F_2-phenoxy)-phenyl	93
224	6-$N(CH_3)_2$	H	4-(4-Cl-phenoxy)-phenyl	161

ex. no	$(R^1)_n$	R^2	A-R^3	m.p. [°C] RT[min]
225	6-$NHCH_3$	H	4-(4-Cl-phenoxy)-phenyl	173
226	2-SCH_3, 6-CH_3	H	4-(4-Cl-phenoxy)-phenyl	171
227	6-$SCHF_2$	H	4-(4-Cl-phenoxy)-phenyl	3.42*
228	6-SCF_3	H	4-(4-Cl-phenoxy)-phenyl	3.53*

-- when referring to $(R^1)_n$ means that n is zero;

m.p. melting point

RT retention time, determined by HPLC; HPLC column: RP-18 column (Chromolith Speed ROD from Merck KgaA, Germany 50*4.6mm). Elution: acetonitrile + 0.1% trifluoroacetic acid (TFA) / water in a ratio of from 5:95 to 95:5 in 5 minutes at 40°C, flow rate 1.6 ml/min; the RT values indicated with an asterisk were determined by using a HPLC column Waters X-BridgeTM C18 502.1 mm. Elution: gradient of 0.1 % formic acid in acetonitrile and 0.1 % formic acid in water in a ration from 2:98 to 98:2 in 4 minutes at 35°C, flow rate 0.8 ml/min.

Examples of the action against harmful fungi

The fungicidal action of the compounds of the formula I was demonstrated by the following experiments:

Greenhouse tests:

The active compounds were formulated separately or together as a stock solution comprising 25 mg of active compound which was made up to 10 ml using a mixture of acetone and/or dimethyl sulfoxide (DMSO) and the emulsifier Wettol (wetting agent having emulsifying and dispersing action based on ethoxylated alkylphenols) in a volume ratio of solvent/emulsifier of 99 to 1. This solution was then made up to 100 ml using water. This stock solution was diluted with the solvent/emulsifier/water mixture described to the active compound concentration given below.

Use example 1 – Activity against early blight on tomatoes caused by Alternaria solani

Young seedlings of tomato plants were grown in pots. These plants were sprayed to run-off with an aqueous suspension, containing the concentration of active ingredient stated below. The next day, the treated plants were inoculated with an aqueous spore suspension of Alternaria solani containing 0.17 x 10^6 spores per ml. Then the trial plants were immediately transferred to a humid chamber. After 5 days at 20 and 22°C

and a relative humidity close to 100 %, the extent of fungal attack on the leaves was visually assessed as % diseased leaf area.

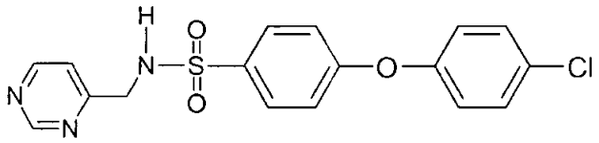
In this test, the plants which had been treated with 250 ppm of the active compound from examples 8, 11, 18, 25, 29, 30, 31, 32, 33, 34, 36, 40, 44, 45 or 61, showed an infection of less than or equal to 15% whereas the untreated plants were 90% infected.

Use example 2 - Activity against early blight of tomato caused by Alternaria solani

Leaves of potted tomato plants were sprayed to runoff point with an aqueous suspension having the active compound concentration stated below. The next day, the treated plants were inoculated with a spore suspension of Alternaria solani which contained 0.17 x 10^6 spores/ml in a 2% aqueous biomalt solution. The test plants were then placed in a water vapor-saturated chamber at temperatures of from 20 to 22°C. After 5 days the disease on the untreated infected control plants had developed to such an extent that the infection of all plants could be determined visually in %.

In this test, the plants which had been treated with 250 ppm of the active compound from examples 200, 201, 202, 203, 204, 205, 209, 210, 213, 220 or 222 showed an infection of less than or equal to 15% whereas the untreated plants were 90% infected.

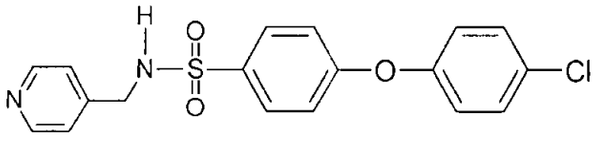
In this test, the plants which had been treated with 250 ppm of the active compound from example 199



example 199

showed an infection of less than or equal to 5% whereas the untreated plants were 90% infected.

In contrast thereto, the plants which had been treated with 250 ppm of the compound of formula (RC 1), prepared by analogy to WO 2006/097488, showed an infection of 40%.



(RC 1)

Use example 3 – Activity against gray mold on bell pepper leaves caused by Botrytis cinerea with protective application for 1 day

Bell pepper leaves of the cultiva "Neusiedler Ideal Elite" were, after 2 to 3 leaves had become well developed, sprayed to runoff point with an aqueous suspension having the concentration of active compounds stated below. The next day, the treated plants were inoculated with an aqueous spore suspension of Botrytis cinerea in a 2% aqueous biomalt solution having a density of 1.7 x 10^6 spores/ml. The plants were then placed in a climatized chamber at temperatures between 22 and 24°C, darkness and at high atmospheric humidity. After 5 days, the extent of the fungal infection was determined visually by the infected leaf area.

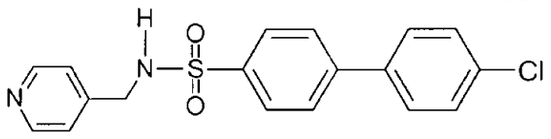
In this test, the plants which had been treated with 250 ppm of the active compound from examples 25, 35, 94, or 102 showed an infection of less than or equal to 20%, whereas the untreated plants were 100% infected.

Use example 4: Activity against late blight on tomatoes caused by Phytophthora infestans, protective treatment

Young seedlings of tomato plants were grown in pots. The plants were sprayed to runoff with an aqueous suspension containing the concentration of active ingredient stated below. The next day, the treated plants were inoculated with an aqueous suspension of sporangia of Phytophthora infestans. After inoculation, the trial plants were immediately transferred to a humid chamber. After six days at 18 to 20°C and a relative humidity close to 100%, the extent of fungal attack on the leaves was visually assessed as % diseased leaf area.

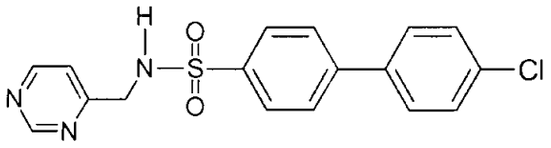
In this test, the plants which had been treated with 250 ppm of the active compound from examples 1, 4, 7, 10, 11, 12, 19, 27, 28, 29, 30, 40, 45, 49, 50, 51, 53, 76, 87, 88, 98, 101, 102, 103, 107, 110, 115, 143, 145, 151, 161, 197, 198, 206, 207, 208, 211, 212, 221, 222 or 223 showed an infection of less than or equal to 20%, whereas the untreated plants were 90% infected.

In this test, the plants which had been treated with 250 ppm of the compound of formula (RC 2), prepared by analogy to WO 2006/097488 showed an infection of 90%.



(RC 2)

In contrast thereto, the compound of example 1 showed an infection of 0%.



Use example 5 – Curative activity against brown rust of wheat caused by Puccinia recondite

Leaves of potted wheat seedlings of the cultivar "Kanzler" were inoculated with a spore suspension of brown rust (Puccinia recondita). The pots were then placed in a chamber at high atmospheric humidity (90 to 95%) and 20 to 22°C for 24 hours. During this time, the spores germinated and the germ tubes penetrated into the leaf tissue. The next day, the infected plants were sprayed to runoff point with an aqueous solution having the active compound concentration stated below. The solution had been prepared as described above. After the spray coating had dried, the test plants were cultivated in a greenhouse at temperatures between 20 and 22°C and at 65 to 70% relative atmospheric humidity for 7 days. The extent of the rust fungus development on the leaves was then determined.

In this test, the plants which had been treated with 250 ppm of the active compound from examples 19, 27, 31, 33, 47, 49, 52, 61, 81, 85, 87, 88, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 211, 212, 213, 216, 217, 219, 220 or 221 showed an infection of less than or equal to 15%, whereas the untreated plants were 90% infected.

Use example 6 - Protective action against Puccinia recondita on wheat (brown rust of wheat)

Leaves of potted wheat seedlings of the cultivar "Kanzler" were sprayed to runoff point with an aqueous suspension having the concentration of active compound stated below. The next day, the treated plants were dusted with spores of brown rust of wheat (Puccinia recondita). The plants were then placed in a chamber with high atmospheric humidity (90 to 95%), at 20-22°C, for 24 hours. During this time, the spores germinated and the germinal tubes penetrated into the leaf tissue. The next day, the test plants were returned into the greenhouse and cultivated at temperatures between 20 and

22°C and at 65 to 70% relative atmospheric humidity for a further 7 days. The extent of the rust development on the leaves was then determined visually.

In this test, the plants which had been treated with 250 ppm of the active compound from examples 8, 18, 52, 53, 74, 76, 77, 79, 80, 81, 85, 94, 107, 131, 151, 159, 165, or 198 showed an infection of less than or equal to 20%, whereas the untreated plants were 90% infected.

Use example 7 – Activity against soyabean rust caused by Phakospora pachyrhizi

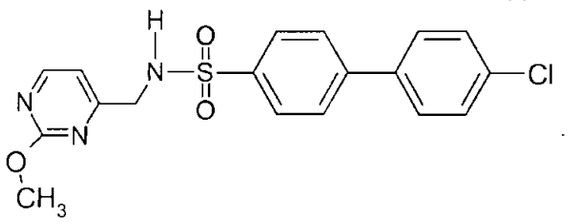
Leaves of potted soyabean seedlings of the cultivar "Oxford" were inoculated with a spore suspension of soyabean rust (Phakospora pachyrhizi). The pots were then placed in a chamber at high atmospheric humidity (90 to 95%) and 23 to 27°C for 24 hours. During this time, the spores germinated and the germ tubes penetrated into the leaf tissue. The next day, the infected plants were sprayed to runoff point with an aqueous solution having the active compound concentration stated below. The solution had been prepared as described above. After the spray coating had dried, the test plants were cultivated in a greenhouse at temperatures between 23 and 27°C and at 60 to 80% relative atmospheric humidity for 14 days. The extent of the rust fungus development on the leaves was then determined.

In this test, the plants which had been treated with 250 ppm of the active compound from examples 1, 20, 24, 100, 214, 215 or 218 showed an infection of less than or equal to 20%, whereas the untreated plants were 90% infected.

Use example 8- Protective action against blight of cucumber leaves caused by Sphaerotheca fuliginea

Leaves of potted cucumber seedlings in the cotyledon stage were sprayed to runoff with an aqueous suspension containing the concentration of active ingredient stated below. The next day the treated plants were inoculated with an aqueous suspension of sporangia of Sphaerotheca fuliginea. After inoculation, the trial plants were transferred to a green house. After seven days at 20 to 24°C and a relative humidity close at 60 to 80 %, the extent of fungal attack on the leaves was visually assessed as % diseased leaf area.

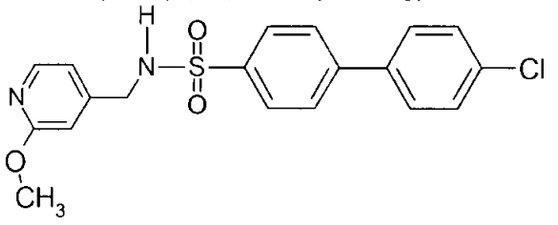
In this test, the compound of example 88



example 88

showed no infection whereas the untreated plants were 90% infected.

In contrast thereto, the plants which had been treated with 250 ppm of the compound of formula (RC 3), prepared by analogy to WO 2006/097488 showed an infection of 90%.



(RC 3)

Microtiter tests

The active compounds were formulated separately as a stock solution in dimethyl sulfoxide (DMSO) at a concentration of 10 000 ppm.

Use example 9 – Activity against the late blight pathogen Phytophthora infestans in the microtiter test

The stock solution was pipetted into a microtiter plate (MTP) and diluted to the stated active compound concentration using a pea juice-based aqueous nutrient medium for fungi. An aqueous zoospore suspension of Phytophthora infestans was then added. The plates were placed in a water vapor-saturated chamber at temperatures of 18°C. Using an absorption photometer, the MTPs were measured at 405 nm on day 7 after the inoculation. The measured parameters were compared to the growth of the active compound-free control variant (= 100%) and the fungus- and active compound-free blank value to determine the relative growth in % of the pathogens in the individual active compounds.

In this test, the sample which had been treated with 125 ppm of the active compound from examples 3, 5, 9, 22, 26, 34, 37, 38, 42, 43, 50, 56, 59, 60, 62, 64, 66, 68, 73, 75, 84, 84, 99, 103, 104, 108, 109, 154, 157, 161, 168, 170, 171, 171, 175, 183, 184, 185,

186, 187, 188, 189, 189, 190, 191, 192, 193, 194, 195 196, 224, 225, 226 or 227, respecitvely showed up to at most 25% growth of the pathogen.

Use example 10 – Activity against the rice blast pathogen caused by Pyricularia oryzae in the microtiter test

The stock solution was pipetted into a microtiter plate (MTP) and diluted to the stated active compound concentration using a malt-based aqueous nutrient medium for fungi. An aqueous spore suspension of Pyricularia oryzae was then added. The plates were placed in a water vapor-saturated chamber at temperatures of 18°C. Using an absorption photometer, the microtiter plates were measured at 405 nm on day 7 after the inoculation. The measured parameters were compared to the growth of the active compound-free control variant (= 100%) and the fungus- and active compound-free blank value to determine the relative growth in % of the pathogens in the individual active compounds.

In this test, the sample which had been treated with 125 ppm of the active compound from examples 3, 4, 5, 6, 7, 9, 12, 13, 16, 26, 32, 39, 41, 42, 44, 48, 54, 56, 57, 58, 59, 60, 62, 64, 66, 67, 73, 75, 78, 79, 80, 84, 86, 89, 99, 109, 120, 122, 138, 158, 159, 166, 167, 169, 171, 172, 175, 177, 180, 181, 183, 186, 187, 190, 192, 195 or 224, respectively, showed up to at most 25% relative growth of the pathogen

Use example 11 – Activity against the Septoria blotch pathogen caused by *Septoria tritici* in the microtiter test

The stock solution was pipetted into a microtiter plate (MTP) and diluted to the stated active compound concentration using a malt-based aqueous nutrient medium for fungi. An aqueous spore suspension of Septoria tritici was then added. The plates were placed in a water vapor-saturated chamber at temperatures of 18°C. Using an absorption photometer, the microtiter plates were measured at 405 nm on day 7 after the inoculation. The measured parameters were compared to the growth of the active compound-free control variant (= 100%) and the fungus- and active compound-free blank value to determine the relative growth in % of the pathogens in the individual active compounds.

In this test, the sample which had been treated with 125 ppm of the active compound from examples 13, 38, 39, 41, 43, 54, 55, 57, 58, 67, 78, 104, 120, 157, 158, 166, 167, 177 or 228, respectively, showed up to at most 25% relative growth of the pathogen.

The action of the compounds of the formula (I) against harmful pests was demonstrated by the following experiments:

Use example 12 Activity against Boll weevil (Anthonomus grandis)

The active compounds were formulated in 1:3 dimethylsulfoxide / water. 10 to 15 eggs were placed into microtiterplates filled with 2% agar-agar in water and 300 ppm formaline. The eggs were sprayed with 20 µl of the test solution, the plates were sealed with pierced foils and kept at 24-26°C and 75-85% humidity with a day/night cycle for 3 to 5 days. Mortality was assessed on the basis of the remaining unhatched eggs or larvae on the agar surface and/or quantity and depth of the digging channels caused by the hatched larvae. Tests were replicated 2 times.

In this test the eggs which have been treated with 2500 ppm of the active compounds of examples 4, 9 and 54, respecitvely, showed a mortality of at least 75%.

Use example 13 Activity against Mediterranean fruitfly (Ceratitis capitata)

The active compounds were formulated in 1:3 Dimethylsulfoxide / water. 50 to 80 eggs were placed into microtiterplates filled with 0.5% agar-agar and 14 % diet in water. The eggs were sprayed with 5 µl of the test solution; the plates were sealed with pierced foils and kept at 27-29°C and 75-85% humidity under fluorescent light for 6 days. Mortality was assessed on the basis of the agility of the hatched larvae. Tests were replicated 2 times.

Use example 14 Activity against Tobacco budworm (Heliothis virescens)

The active compounds were formulated in 1:3 dimethylsulfoxide / water. 15 to 25 eggs were placed into microtiterplates filled with diet. The eggs were sprayed with 10 µl of the test solution, the plates were sealed with pierced foils and kept at 27-29°C and 75-85% humidity under fluorescent light for 6 days. Mortality was assessed on the basis of the agility and of comparative feeding of the hatched larvae. Tests were replicated 2 times. In this test the eggs which have been treated with 2500 ppm of the active compounds from example 54 showed a mortality of at least 75%.

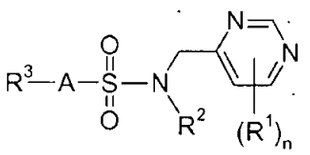
Use example 15 Activity against Vetch aphid (Megoura viciae)

The active compounds were formulated in 1:3 dimethylsulfoxide / water. Bean leaf disks were placed into microtiterplates filled with 0.8% agar-agar and 2.5 ppm OPUS®. The leaf disks were sprayed with 2.5 µl of the test solution and 5 to 8 adult aphids were placed into the microtiterplates which were then closed and kept at 22-24°C and 35-

45% under fluorescent light for 6 days. Mortality was assessed on the basis of vital, reproduced aphids. Tests were replicated 2 times.

We claim:

1. Pyrimidylmethyl-sulfonamide compounds of the formula (I)



(I),

where:

n is zero, one, two or three;

R^1 is halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylsulfinyl, C_1-C_4-haloalkylsulfinyl, C_1-C_4-alkylsulfonyl, C_1-C_4-haloalkylsulfonyl, amino, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-haloalkoxy-C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_3-C_8-cycloalkyl or C_1-C_4-alkyl-C_3-C_8-cycloalkyl; and/or

one radical R^1 that is bound to a carbon atom adjacent to a nitrogen atom of the pyrimidine ring may form together with said carbon atom and nitrogen atom a fused five-membered aromatic heterocycle, which may contain one, two or three further nitrogen atoms as ring members; or

two radicals R^1 that are bound to adjacent carbon atoms of the pyrimidine ring may form together with said carbon atoms a fused benzene ring, a fused saturated or partially unsaturated 5-, 6-, or 7-membered carbocycle or a fused 5-, 6-, or 7-membered heterocycle containing one, two or three heteroatoms selected from the group consisting of 2 nitrogen, 1 oxygen and 1 sulfur atoms as ring members, it being possible for the fused ring to carry one or two radicals selected from the group consisting of halogen, C_1-C_4-alkyl, halomethyl, C_1-C_4-alkoxy or halomethoxy;

R^2 is hydrogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-haloalkoxy-C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-haloalkenyl, C_2-C_4-alkynyl, C_3-C_8-cycloalkyl, C_1-C_4-alkyl-C_3-C_8-cycloalkyl or benzyl wherein the phenyl moiety of benzyl is unsubstituted or carries 1, 2 , 3, 4, or 5 substituents selected from the group consisting of cyano, halogen, C_1-C_4-alkyl, C_1-C_4-

haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl.

A is phenylene, 5- or 6-membered heteroarenediyl, where heteroarenediyl contains one, two, three or four heteroatoms selected from the group consisting of 1, 2, 3 or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, and where phenylene and heteroarenediyl for their part are unsubstituted or carry 1, 2, 3 or 4 substituents R^A, each selected from the group consisting of cyano, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_2-C_4-alkenyl, C_2-C_4-haloalkenyl, C_2-C_4-alkynyl, C_2-C_4-haloalkynyl, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl, or

A is C_1-C_8-alkanediyl, C_1-C_8-haloalkanediyl, C_2-C_8-alkenediyl, C_2-C_8-haloalkenediyl, C_2-C_8-alkynediyl, or C_2-C_8-haloalkynediyl, wherein the six last-mentioned radicals are unsubstituted or carry one, two or three substituents R^{AA}, each selected from the group consisting of cyano, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl;

R^3 is hydrogen, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylamino, di(C_1-C_4-alkyl)amino, (C_1-C_4-alkyl)carbonyl, (C_1-C_4-alkoxy)iminomethyl, acryloyl (vinylcarbonyl), C_3-C_8-cycloalkyl, C_1-C_4-alkyl-C_3-C_8-cycloalkyl, or C_5-C_8-cycloalkenyl,

phenyl, benzyl, phenoxy, phenylthio, a 5- or 6-membered heteroaryl radical, wherein the heteroaryl ring has 1, 2, 3 or 4 heteroatoms selected from the group consisting of 1, 2, 3 or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, it being possible for the heteroaryl ring and the phenyl ring of phenyl, benzyl, phenoxy and phenylthio to be unsubstituted or substituted by one, two or three substituents R^B, each selected from the group consisting of cyano, nitro, amino, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl, di(C_1-C_4-alkyl)aminocarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulfinyl and C_1-C_4-alkylsulfonyl; or

a 5- or 6-membered heteroaryloxy radical or a 5- or 6-membered heteroarylthio radical, wherein the heteroaryl ring in the two aforementioned radicals has 1, 2, 3 or 4 heteroatoms selected from the group consisting of

1, 2, 3, or 4 nitrogen atoms, 1 oxygen atom and 1 sulfur atom, as ring members, it being possible for said heteroaromatic ring to carry one, two or three substituents R^B;

or if A is phenylene or 5- or 6-membered heteroarenediyl, the radical R^3 together with a radical R^A may form together with the carbon atoms to which they are bound a fused benzene ring, wherein the fused benzene ring may be unsubstituted or may carry 1, 2 or 3 substituents selected, independently from one another, from the group consisting of halogen, cyano, nitro, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, (C_1-C_4-alkoxy)carbonyl and di(C_1-C_4-alkyl)aminocarbonyl, or

if A is phenylene or 5- or 6-membered heteroarenediyl, the radical R^3 can also be C_1-C_4-alkyl, C_2-C_4-alkenyl or C_2-C_4-alkynyl;

and the N-oxides, the agriculturally acceptable salts and the veterinarily acceptable salts of the compounds of the formula (I).

2. Compounds of the formula (I) as claimed in claim 1, in which A is phenylene or heteroarenediyl, which both may be unsubstituted or may carry one, two or three substituents R^A.

3. Compounds of the formula (I) as claimed in claim 2, in which A is 1,3- or 1,4-phenylene, which may carry one, two or three substituents R^A.

4. Compounds of the formula (I) as claimed in claim 2, in which A is heteroarene-diyl, selected from the group consisting of thiophene-2,5-diyl, thiophene-2,4-diyl, thiophene-3,5-diyl, thiazole-2,5-diyl, thiazole-2,4-diyl, oxazole-2,5-diyl, oxazole-2,4-diyl, pyrazole-3,5-diyl, pyrazole-1,3-diyl, pyrazole-1,4-diyl, pyridine-2,5-diyl, pyridine-2,6-diyl, pyridine-2,4-diyl, pyridine-3,5-diyl, wherein heteroarenediyl is unsubstituted or carries one, two or three substituents R^A.

5. Compounds of the formula (I) according to claim 1, in which R^3 is phenyl or phenoxy, where the two last-mentioned radicals are unsubstituted or carry one, two, or three substituents R^B.

6. Compounds of the formula (I) as claimed in claim 1, in which A is C_2-C_4-alkene-diyl, C_2-C_4-haloalkenediyl, C_2-C_4-alkynediyl or C_2-C_4-haloalkynediyl, and where the four last-mentioned radicals are unsubstituted or carry one, two, or three

substituents R^{AA}.

7. Compounds of the formula (I) as claimed in any of the preceding claims, in which R^2 is hydrogen, C_1-C_4-alkyl, C_1-C_2-fluoroalkyl, C_1-C_2-alkoxy, di(C_1-C_2-alkyl)amino, allyl or propargyl.

8. Compounds of the formula (I) as claimed in claim 1, in which R^2 is hydrogen.

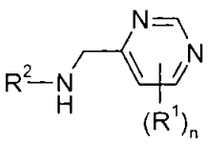
9. Compounds of the formula (I) as claimed in any of the preceding claims, in which n is zero.

10. Compounds of the formula (I) as claimed in claims 1 to 8, in which n is 1, 2 or 3.

11. Compounds of the formula (I) as claimed in claim 10, in which R^1 is selected from C_1-C_4-alkyl, cyclopropyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4- alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkylsulfinyl, C_1-C_4-haloalkylsulfinyl, C_1-C_4-alkylsulfonyl, C_1-C_4-haloalkylsulfonyl, (C_1-C_4-alkyl)amino, di(C_1-C_4-alkyl)amino,, and halogen.

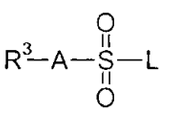
12. Compounds of the formula (I) as claimed in claim 11, in which R^1 is selected from methyl, methylthio, methoxy, difluoromethylthio, trifluoromethylthio, difluoromethoxy, trifluoromethoxy, methylamino, methylsulfonyl, dimethylamino, fluorine, bromine and chlorine.

13. A process for preparing pyrimidylmethyl-sulfonamide compounds of the formula (I) as defined in claim 1, which comprises reacting an aminomethylpyrimidine compound of the formula (II)



(II)

in which n, R^1 and R^2 are as defined in claim 1,
under basic conditions with a sulfonic acid derivative of the formula (III)



(III),

in which A and R^3 are as defined in claim 1 and L is hydroxy or halogen.

14. An agricultural composition which comprises a solid or liquid carrier and at least one compound of the formula (I) or an N-oxide or an agriculturally acceptable salt thereof, according to claim 1.

15. A method for the treatment of phytopathogenic harmful fungi, which process comprises treating the fungi or the materials, plants, the soil or seeds to be protected against fungal attack, with an effective amount of at least one compound of the formula (I) or an or an N-oxide or an agriculturally acceptable salt thereof, according to claim 1.

16. The use of compounds of the formula (I), their N-oxides and their agriculturally acceptable salts, according to claim 1, and of compositions comprising compounds of formula I, for combating phytopathogenic harmful fungi.

17. The use of compounds of the formula (I), their N-oxides, their agriculturally acceptable salts and their veterinarily acceptable salts, according to claim 1, and of compositions comprising at least one compound of formula (I), for combating arthropod pests.

18. The use of compounds of the formula (I) and the N-oxides and the agriculturally acceptable salts, according to claim 1, and of compositions comprising at least one compound of formula (I), for protecting seed, the seedlings' roots and shoots from infestation by phytopathogenic harmful fungi and/or arthropod pests.

19. A method for combating arthropod pests, which comprises contacting said pests, their habitat, breeding ground, food supply, plant, seed, soil, area, material or environment in which the arthropod pests are growing or may grow, or the materials, plants, seeds, soils, surfaces or spaces to be protected from an attack of or infestation by said pests, with a pesticidally effective amount of at least one compound of the formula (I), an N-oxide, an agriculturally acceptable salt or a veterinarily acceptable salt thereof, according to claim 1, or with a composition comprising at least one compound of the formula (I), an N-oxide, an agriculturally acceptable salt or a veterinarily acceptable salt thereof.

20. The method as claimed in claim 19, wherein the pests are insects.

21. The method as claimed in claim 19, wherein the pests are arachnids.

22. A method for protecting crops from attack or infestation by arthropod pests, the method comprising contacting a crop with a pesticidally effective amount of at least one compound of the formula (I) or an N-oxide or an agriculturally acceptable salt thereof, according to claim 1.

23. A method for protecting seed from infestation by arthropodal pests and of the seedlings' roots and shoots from infestation by arthropod pests, the method comprising contacting the seed or of the seedlings' roots and shoots with a pesticidally effective amount of at least one compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof, according to claim 1.

24. A method for protecting non-living materials from attack or infestation by arthropod pests, the method comprising contacting the non-living material with a pesticidally effective amount of at least one compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof, according to claim 1.

25. Seed comprising a compound of the formula (I), or an N-oxide or an agriculturally acceptable salt thereof, as defined in claim 1, in an amount of from 0.1 g to 10 kg per 100 kg of seed.

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COMPUESTOS DE PIRIMIDILMETIL-SULFONAMIDA USADOS COMO FUNGICIDAS Y CONTRA ARTRÓPODOS

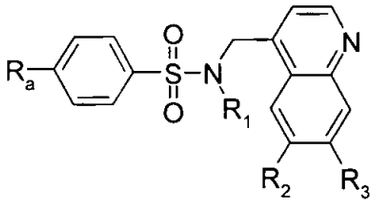
Descripción

La presente invención se refiere a nuevos compuestos de pirimidilmetil-sulfonamida y los N–óxidos, y sus sales y su uso para combatir plagas de artrópodos y/o hongos fitopatógenos dañinos, y también a composiciones que comprenden, como componente activo, al menos uno de dichos compuestos. La presente invención también se refiere a un método para controlar plagas de artrópodos.

El documento WO 2005/033081 describe compuestos de 4–piridilmetilsulfonamida que son activos contra hongos patógenos para plantas. Respecto de su actividad fungicida, algunas de dichas 4–piridilmetilsulfonilamidas no son satisfactorias o tienen propiedades indeseadas tales como escasa compatibilidad con plantas de cultivo.

El documento WO 2006/097489 (PCT/EP/2006/060753) describe diversas 4–piridilmetilamidas de ácido bifenilsulfónico, en donde el residuo bifenilo puede portar sustituyentes en el anillo fenilo del residuo bifenilo en el grupo sulfonamida. Los compuestos se usan para combatir plagas de artrópodos y para proteger materiales contra infestación y/o destrucción por dichas plagas.

El documento WO 2006/097488 (PCT/EP/2006/060752) inter alia describe compuestos de quinolona contra artrópodos de la fórmula (A),



(A)

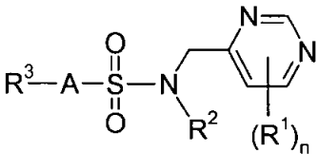
en donde R_2 y R_3 son ambos hidrógeno, halógeno, metoxi o trifluorometoxi, R_1 es hidrógeno o metilo y R_a se selecciona de fenilo que puede ser no sustituido o puede portar un sustituyente seleccionado de cloro, alquilo C_1–C_4, metoxi, trifluorometoxi o fenilo.

El documento WO 2007/104726 (que corresponde al documento US 60/782429) describe metilsulfonamidas de quinolina específicas portadoras de un residuo bifenilo en el grupo sulfonamida, en donde el residuo fenileno del bifenilo no está sustituido.

El documento PCT/EP2007/058348 (que corresponde al documento EP 06119331.4) describe compuestos de tiofeno–oicolilamida de ácido sulfónico y su uso para combatir plagas de artrópodos. Dichos compuestos también tienen actividad fungicida.

Sobre esta base, persiste la necesidad de proveer compuestos que son útiles para combatir artrópodos dañinos tales como insectos y arácnidos y/o hongos dañinos.

Sorprendentemente, este objeto se logra por medio de compuestos de pirimidilmetil–sulfonamida de la fórmula general (I) descrita más abajo



(I),

donde:

n es cero, uno, dos o tres;

R^1 es halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo, haloalquil C_1–C_4–sulfinilo, alquil C_1–C_4–sulfonilo, haloalquil C_1–C_4–sulfonilo, amino, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8 o alquil C_1–C_4–cicloalquilo C_3–C_8; y/o

un radical R^1 que está unido a un átomo de carbono adyacente a un átomo de nitrógeno del anillo pirimidina puede formar junto con dicho átomo de carbono y átomo de nitrógeno un heterociclo aromático de cinco miembros fusionado, que puede contener uno o dos átomos de nitrógeno más como miembros del anillo; o

dos radicales R^1 que están unidos a átomos de carbono adyacentes del anillo pirimidina pueden formar junto con dichos átomos de carbono un anillo benceno fusionado, un carbociclo saturado fusionado o parcialmente insaturado de 5, 6 ó 7 miembros o un heterociclo fusionado de 5, 6 ó 7 miembros que contiene uno, dos o tres heteroátomos seleccionados del grupo que consiste en 2 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre como miembros del anillo, siendo posible para el anillo fusionado llevar uno o dos radicales seleccionados del grupo que consiste en halógeno, alquilo C_1–C_4, halometilo, alcoxi C_1–C_4 o halometoxi;

R^2 es hidrógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8 o bencilo, en donde el resto de fenilo de bencilo no está sustituido o lleva 1, 2, 3, 4 ó 5 sustituyentes seleccionados del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo;

A es fenileno, heteroarendiílo de 5 ó 6 miembros, donde el heteroarendiílo contiene uno, dos, tres o cuatro heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno , 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, y donde fenileno y heteroarendiílo, por su parte, no están sustituidos o llevan 1, 2, 3 ó 4 sustituyentes R^A, cada uno seleccionado del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, haloalquinilo C_2–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo, o

A es alcandiílo C_1–C_8, haloalcandiílo C_1–C_8, alquendiílo C_2–C_8, haloalquendiílo C_2–C_8, alquindiílo C_2–C_8 o haloalquindiílo C_2–C_8, en donde los últimos seis radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^{AA}, cada uno seleccionado del grupo que consiste en ciano, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo;

R^3 es hidrógeno, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, (alquil C_1–C_4)carbonilo, (alcoxi C_1–C_4)iminometilo, acriloílo (vinilcarbonilo), cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8, o cicloalquenilo C_5–C_8,

fenilo, bencilo, fenoxi, feniltio, un radical heteroarilo de 5 ó 6 miembros, en donde el anillo heteroarilo tiene 1, 2, 3 ó 4 heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, siendo posible para el anillo heteroarilo y el anillo fenilo de fenilo, bencilo, fenoxi y feniltio no estar sustituidos o estar sustituidos con uno, dos o tres sustituyentes R^B, cada uno seleccionado del grupo que consiste en ciano, nitro, amino, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo, di(alquil C_1–C_4)aminocarbonilo, alquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo y alquil C_1–C_4–sulfonilo; o

un radical heteroariloxi de 5 ó 6 miembros o un radical heteroariltio de 5 ó 6 miembros, en donde el anillo heteroarilo en los últimos dos radicales mencionados tiene 1, 2, 3 ó 4 heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, siendo posible para dicho anillo heteroaromático llevar uno, dos o tres sustituyentes R^B;

o cuando A es fenileno o heteroarendiílo de 5 ó 6 miembros, el radical R^3 junto con un radical R^A puede formar junto con los átomos de carbono a los que está unido un anillo benceno fusionado, en donde el anillo benceno fusionado puede no estar sustituido o puede llevar 1, 2 ó 3 sustituyentes seleccionados, de modo independiente entre sí, del grupo que consiste en halógeno, ciano, nitro, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo, o

cuando A es fenileno o heteroarendiílo de 5 ó 6 miembros, el radical R^3 también puede ser alquilo C_1–C_4, alquenilo C_2–C_4 o alquinilo C_2–C_4;

los N–óxidos y las sales de los compuestos de la fórmula (I).

En consecuencia, la presente invención se refiere a compuestos de pirimidilmetil-sulfonamida de la fórmula general (I) y los N–óxidos y sus sales. Además, la invención se refiere a un proceso para preparar estos compuestos.

Los compuestos de la presente invención son de utilidad para combatir hongos fitopatógenos dañinos. En consecuencia la presente invención también se refiere al uso de compuestos de pirimidilmetil-sulfonamida de la fórmula general (I), sus N–óxidos y

sales para combatir hongos fitopatógenos dañinos.

La presente invención también se refiere a un método para el tratamiento de hongos fitopatógenos dañinos, cuyo proceso comprende tratar los hongos o los materiales, plantas, el suelo o las semillas que se desean proteger contra el ataque de hongos, con una cantidad efectiva de al menos un compuesto de la fórmula (I) o un N–óxido o una de sus sales agrícolamente efectivas.

Los compuestos de la presente invención también son útiles para combatir plagas de artrópodos, especialmente insectos y arácnidos. En consecuencia, la presente invención también se refiere al uso de compuestos de la fórmula general (I) y sus N–óxidos y sales para combatir plagas de artrópodos. La presente invención también se refiere a un método para combatir plagas de artrópodos, que comprende poner en contacto dichas plagas, su hábitat, base de alimentación, provisión de alimentos, planta, semilla, suelo, área, material o ambiente en el cual crecen o pueden crecer las plagas de artrópodos, o los materiales, las plantas, semillas, suelos, superficies o espacios que se buscan proteger de un ataque o infestación por dichas plagas, con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas o con una composición que comprenden al menos un compuesto de la fórmula (I), y/o un N–óxido o una de sus sales. Además, la presente invención se refiere a un método para proteger plantas en crecimiento contra el ataque o la infestación por plagas de artrópodos, que comprenden poner en contacto un cultivo con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I) o un N–óxido o una de sus sales agrícolamente efectivas.

Además, la presente invención se refiere a un método para proteger semillas de la infestación por plagas de artrópodos y a las raíces y los brotes de las semillas germinadas contra la infestación por plagas de artrópodos, que comprende poner en contacto la semilla o las raíces y los brotes de las semillas germinadas con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas.

La presente invención también se refiere a un método para proteger materiales inanimados contra el ataque o la infestación por plagas de artrópodos, que comprende poner en contacto el material inanimado con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas.

La presente invención también se refiere a semillas que comprenden a compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas, en una cantidad de 0,1 g a 10 kg por 100 kg de semilla.

Según el patrón de sustitución, los compuestos de la fórmula (I) y sus N–óxidos pueden tener uno o más centros de quiralidad, en cuyo caso están presentes como enantiómeros puros o diastereómeros puros o como mezclas de enantiómeros o diastereómeros. Tanto los enantiómeros puros como los diastereómeros y sus mezclas son el objeto de la presente invención.

Los compuestos de la fórmula (I) pueden estar presentes en diferentes modificaciones cristalinas, cuya actividad biológica puede diferir. También forman parte de este objeto de la presente invención.

Las sales agrícolamente útiles de los compuestos (I) abarcan especialmente las sales de los cationes o las sales por adición de ácido de lo ácidos cuyos cationes y aniones, respectivamente, no tienen efecto adverso sobre la acción plaguicida de los compuestos (I). Los cationes adecuados en consecuencia son el particular los iones de los metales alcalinos, de preferencia sodio y potasio, de los metales alcalinotérreos, de preferencia calcio, magnesio y bario, de los metales de transición, de preferencia manganeso, cobre, zinc y hierro, y también el ión amonio, el cual si se desea puede portar uno a cuatro sustituyentes alquilo C_1–C_4 y/o un sustituyente fenilo o bencilo, de preferencia diisopropilamonio, tetrametilamonio, tetrabutilamonio, trimetilbencilamonio, además iones fosfonio, iones sulfonio, de preferencia tri(alquil C_1–C_4)sulfonio, e iones sulfoxonio, de preferencia tri(alquil C_1–C_4)sulfoxonio.

Los aniones de sales por adición de ácido útiles son principalmente cloruro, bromuro, fluoruro, sulfato de hidrógeno, sulfato, fosfato de dihidrógeno, fosfato de hidrógeno, fosfato, nitrato, bicarbonato, carbonato, hexafluorosilicato, hexafluorofosfato, benzoato y los aniones de ácidos alcanoicos C_1–C_4, de preferencia formiato, acetato, propionato y butirato. Se pueden formar al hacer reaccionar un compuesto de fórmula (I) con un ácido del anión correspondiente, de preferencia de ácido clorhídrico, ácido bromhídrico, ácido sulfúrico, ácido fosfórico o ácido nítrico.

Las sales veterinariamente aceptables de los compuestos de fórmula (I) abarcan especialmente las sales de dichos cationes o las sales por adición de ácido conocidas y aceptadas en la técnica por la formación de sales de uso veterinario. Las sales por adición de ácido adecuadas, por ejemplo las formadas por compuestos de fórmula (I) que contienen un átomo de nitrógeno básico, por ejemplo un grupo amino, incluyen sales con ácidos inorgánicos, por ejemplo clorhidratos, sulfatos, fosfatos y nitratos y sales de ácidos orgánicos por ejemplo ácido acético, ácido maleico, ácido dimaleico, ácido fumárico, ácido difumárico, ácido metanosulfénico, ácido metanosulfónico y ácido succínico.

En las definiciones de las variables dadas con anterioridad, se usan términos colectivos que generalmente son representativos de los sustituyentes en cuestión. El término C_n–C_m indica la cantidad de átomos de carbono posibles en cada caso en el sustituyente o residuo sustituyente en cuestión.

El término "halógeno" se refiere a flúor, cloro, bromo y yodo.

El término "alquilo C_1–C_4" se refiere a un grupo hidrocarbonado saturado de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono, por ejemplo, metilo, etilo, propilo, 1–metiletilo, butilo, 1–metilpropilo, 2–metilpropilo y 1,1–dimetiletilo.

El término "haloalquilo C_1–C_4" se refiere a un grupo alquilo de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad), en donde algunos o todos los átomos de hidrógeno en estos grupos pueden estar reemplazados por átomos de halógeno tal como se mencionó con anterioridad, por

ejemplo, clorometilo, bromometilo, diclorometilo, triclorometilo, fluorometilo, difluorometilo, trifluorometilo, clorofluorometilo, diclorofluorometilo, clorodifluorometilo, 1–cloroetilo, 1–bromoetilo, 1–fluoroetilo, 2–fluoroetilo, 2,2–difluoroetilo, 2,2,2–trifluoroetilo, 2–cloro–2–fluoroetilo, 2–cloro–2,2–difluoroetilo, 2,2–dicloro–2–fluoroetilo, 2,2,2–tricloroetilo y pentafluoroetilo, 2–fluoropropilo, 3–fluoropropilo, 2,2–difluoropropilo, 2,3–difluoropropilo, 2–cloropropilo, 3–cloropropilo, 2,3–dicloropropilo, 2–bromopropilo, 3–bromopropilo, 3,3,3–trifluoropropilo, 3,3,3–tricloropropilo, $CH_2–C_2F_5$, $CF_2–C_2F_5$, $CF(CF_3)_2$, 1–(fluorometil)–2–fluoroetilo, 1–(clorometil)–2–cloroetilo, 1–(bromometil)–2–bromoetilo, 4–fluorobutilo, 4–clorobutilo, 4–bromobutilo o nonafluorobutilo, y similares.

El término "alcoxi $C_1–C_4$" se refiere a un grupo alquilo de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad) que está unido a través de un oxígeno, en cualquier posición en el grupo alquilo, por ejemplo, metoxi, etoxi, n–propoxi, 1–metiletoxi, butoxi, 1–metilpropoxi, 2–metilpropoxi o 1,1–dimetiletoxi.

El término "haloalcoxi $C_1–C_4$" se refiere a un radical alcoxi $C_1–C_4$ tal como se definió con anterioridad que está parcial o completamente sustituido con flúor, cloro, bromo y/o yodo, por ejemplo, OCH_2F, $OCHF_2$, OCF_3, OCH_2Cl, $OCHCl_2$, $OCCl_3$, clorofluorometoxi, diclorofluorometoxi, clorodifluorometoxi, 2–fluoroetoxi, 2–cloroetoxi, 2–bromoetoxi, 2–iodoetoxi, 2,2–difluoroetoxi, 2,2,2–trifluoroetoxi, 2–cloro–2–fluoroetoxi, 2–cloro–2,2–difluoroetoxi, 2,2–dicloro–2–fluoroetoxi, 2,2,2–tricloroetoxi, OC_2F_5, 2–fluoropropoxi, 3–fluoropropoxi, 2,2–difluoropropoxi, 2,3–difluoropropoxi, 2–cloropropoxi, 3–cloropropoxi, 2,3–dicloropropoxi, 2–bromopropoxi, 3–bromopropoxi, 3,3,3–trifluoropropoxi, 3,3,3–tricloropropoxi, $OCH_2–C_2F_5$, $OCF_2C_2F_5$, 1–(CH_2F)–2–fluoroetoxi, 1–(CH_2Cl)–2–cloroetoxi, 1–(CH_2Br)–2–bromoetoxi, 4–fluorobutoxi, 4–clorobutoxi, 4–bromobutoxi o nonafluorobutoxi.

El término "alcoxi $C_1–C_4$–alquilo $C_1–C_4$" se refiere a alquilo que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad), en donde un átomo de hidrógeno del radical alquilo está reemplazado con un grupo alcoxi $C_1–C_4$ (tal como se definió con anterioridad).

Conforme a ello, el término "alquil $C_1–C_4$–tio" tal como se usa en la presente se refiere a grupos alquilo de cadena lineal o ramificada que tienen 1 a 4 átomos de carbono (tal como se definió con anterioridad) unidos a través de un átomo de azufre, en cualquier posición en el grupo alquilo, por ejemplo, metiltio, etiltio, propiltio, isopropiltio y n–butiltio.

El término "alquil $C_1–C_4$–sulfinilo" se refiere un grupo alquilo de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad) unido a través de un resto –S(=O), en cualquier posición en el grupo alquilo, por ejemplo, metilsulfinilo y similares.

El término "haloalquil $C_1–C_4$–sulfinilo" se refiere a grupo haloalquilo de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad) unido a través de un resto –S(=O), en cualquier posición en el grupo alquilo.

El término "alquil $C_1–C_4$–sulfonilo" se refiere un grupo alquilo de cadena lineal o

ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad) unido a través de un resto $-S(=O)_2$, en cualquier posición en el grupo alquilo, por ejemplo, metilsulfonilo.

El término "haloalquil C_1–C_4–sulfonilo" se refiere a un grupo haloalquilo de cadena lineal o ramificada que tiene 1 a 4 átomos de carbono (tal como se definió con anterioridad) unido a través de un resto $-S(=O)_2$, en cualquier posición en el grupo alquilo.

El término "alquilamino" se refiere a un radical amino que lleva un grupo alquilo C_1–C_4 (tal como se definió con anterioridad) como sustituyente, por ejemplo, metilamino, etilamino, propilamino, 1–metiletilamino, butilamino, 1–metilpropilamino, 2–metilpropilamino, 1,1–dimetiletilamino y similares.

El término "di(alquil C_1–C_4)amino" se refiere a un radical amino que lleva dos grupos alquilo C_1–C_4 iguales o diferentes (tal como se definió con anterioridad) como sustituyentes, por ejemplo, dimetilamino, dietilamino, di–n–propilamino, diisopropilamino, N–etil–N–metilamino, N–(n–propil)–N–metilamino, N–(isopropil)–N–metilamino, N–(n–butil)–N–metilamino, N–(n–pentil)–N–metilamino, N–(2–butil)–N–metilamino, N–(isobutil)–N–metilamino, y similares.

El término "alcoxi C_1–C_4–carbonilo" se refiere a un radical alcoxi C_1–C_4 tal como se definió con anterioridad que está unido a través de un grupo carbonilo.

El término "di(alquil C_1–C_4)aminocarbonilo" se refiere a un radical dialquil (C_1–C_4)–amino tal como se definió con anterioridad que está unido a través de un grupo carbonilo.

Los términos "fenoxi" y "feniltio", respectivamente, se refieren a un radical fenilo que está unido a través de un átomo de oxígeno y un átomo de azufre, respectivamente.

El término "alquenilo C_2–C_4" se refiere a un radical hidrocarbonado insaturado ramificado o no ramificado que tiene 2 a 4 átomos de carbono y un enlace doble en cualquier posición, tales como etenilo, 1–propenilo, 2–propenilo (alilo), 1–metiletenilo, 1–butenilo, 2–butenilo, 3–butenilo, 1–metil–1–propenilo, 2–metil–1–propenilo, 1–metil–2–propenilo, 2–metil–2–propenilo.

El término "haloalquenilo C_2–C_4" se refiere a un radical hidrocarbonado insaturado de cadena lineal o ramificada que tiene de 2 a 4 átomos de carbono y un enlace doble en cualquier posición (tal como se definió con anterioridad), donde algunos o todos los átomos de hidrógeno en estos grupos pueden estar reemplazados por átomos de halógeno como se especificó con anterioridad, en particular flúor, cloro y bromo.

El término "alquinilo C_2–C_4" se refiere a un radical hidrocarbonado insaturado ramificado o no ramificado que tiene 2 a 4 átomos de carbono y que contiene al menos un enlace triple, tales como etinilo, 1–propinilo, 2–propinilo (propargilo), 1–butinilo, 2–butinilo, 3–butinilo, 1–metil–2–propinilo.

El término "cicloalquilo C_3–C_8" se refiere a radicales hidrocarbonados saturados monocíclicos que tienen 3 a 8 miembros de anillo carbono, tales como ciclopropilo, ciclobutilo, ciclopentilo, ciclohexilo, cicloheptilo o ciclooctilo.

El término "cicloalquenilo C_3–C_8" se refiere a radicales hidrocarbonados monoinsaturados monocíclicos que tienen de 3 a 8, con preferencia de 5 a 6 miembros de

anillo carbono, tales como ciclopenten–1–ilo, ciclopenten–3–ilo, ciclohexen–1–ilo, ciclohexen–3–ilo, ciclohexen–4–ilo y similares

El término "alquil C_1–C_4–cicloalquilo C_3–C_8" se refiere a un radical cicloalquilo que tiene 3 a 8 átomos de carbono (tal como se definió con anterioridad), en donde un átomo de hidrógeno del radical cicloalquilo está reemplazado con un grupo alquilo C_1–C_4 (tal como se definió con anterioridad).

Por "heterociclo de 5 ó 6 miembros" que contiene uno, dos, tres o cuatro heteroátomos del grupo que consiste en O, N y S se debe entender que significa tanto heterociclos saturados, parcialmente insaturados como aromáticos que tienen 5 ó 6 átomos de anillo, que incluyen:

- heterociclilo de 5 ó 6 miembros que contiene uno, dos o tres átomos de nitrógeno y/o un átomo de oxígeno o un átomo de azufre o uno o dos átomos de oxígeno y/o de azufre, y que está saturado o parcialmente insaturado, por ejemplo, 2–tetrahidrofuranilo, 3–tetrahidrofuranilo, 2–tetrahidrotienilo, 3–tetrahidrotienilo, 2–pirrolidinilo, 3–pirrolidinilo, 3–isoxazolidinilo, 4–isoxazolidinilo, 5–isoxazolidinilo, 3–isotiazolidinilo, 4–isotiazolidinilo, 5–isotiazolidinilo, 3–pirazolidinilo, 4–pirazolidinilo, 5–pirazolidinilo, 2–oxazolidinilo, 4–oxazolidinilo, 5–oxazolidinilo, 2–tiazolidinilo, 4–tiazolidinilo, 5–tiazolidinilo, 2–imidazolidinilo, 4–imidazolidinilo, 2–pirrolin–2–ilo, 2–pirrolin–3–ilo, 3–pirrolin–2–ilo, 3–pirrolin–3–ilo, 2–piperidinilo, 3–piperidinilo, 4–piperidinilo, 1,3–dioxan–5–ilo, 2–tetrahidropiranilo, 4–tetrahidropiranilo, 2–tetrahidrotienilo, 3–hexahidropiridazinilo, 4–hexahidropiridazinilo, 2–hexahidropirimidinilo, 4–hexahidropirimidinilo, 5–hexahidropirimidinilo y 2–piperazinilo;
- heterociclilo aromático de 5 miembros (heteroarilo) que contiene uno, dos, tres o cuatro átomos de nitrógeno o uno, dos o tres átomos de nitrógeno y un átomo de azufre o de oxígeno: los grupos heteroarilo de 5 miembros que, además de átomos de carbono, pueden contener uno a cuatro átomos de nitrógeno o uno a tres átomos de nitrógeno y un átomo de azufre o de oxígeno como miembros del anillo, por ejemplo, 2–tienilo, 3–tienilo, 3–pirazolilo, 4–pirazolilo, 5–pirazolilo, 2–oxazolilo, 4–oxazolilo, 5–oxazolilo, 2–tiazolilo, 4–tiazolilo, 5–tiazolilo, 2–imidazolilo, 4–imidazolilo y 1,3,4–triazol–2–ilo;
- heteroarilo de 6 miembros que contiene uno, dos, tres o cuatro átomos de nitrógeno: los grupos heteroarilo de 6 miembros que, además de átomos de carbono, pueden contener uno, dos, tres o cuatro átomos de nitrógeno como miembros del anillo, por ejemplo, 2–piridinilo, 3–piridinilo, 4–piridinilo, 3–piridazinilo, 4–piridazinilo, 2–pirimidinilo, 4–pirimidinilo, 5–pirimidinilo y 2–pirazinilo.

Carbociclo fusionado de 5 ó 6 miembros significa un anillo hidrocarbonado que comparte dos átomos de carbono adyacentes con otro anillo, siendo ejemplos el ciclopentano, ciclopenteno, ciclohexano, ciclohexeno y benceno. Los ejemplos de los heterociclos de 5 ó 6 miembros que contienen un anillo carbocíclico fusionado de 5 ó 6

miembros tal como se mencionó con anterioridad son indolilo, indolinilo, isoindolinilo, benzpirazolilo, bencimidazolilo, benzotriazolilo, quinolinilo, 1,2,3,4–tetrahidroquinolinilo, isoquinolinilo, ftalazinilo, quinazinilo, quinazolinilo, cinolinilo, benzofuranilo, benzo–tiofenilo, benzopiranilo, dihidrobenzopiranilo, benzotiopiranilo, 1,3–benzodioxolilo, benzoxazolilo, benztiazolilo, benzisoxazolilo y 1,4–benzodioxanilo.

El término "carbociclo de 5, 6 ó 7 miembros" comprende anillos carbocíclicos no aromáticos monocíclicos saturados o parcialmente insaturados que tienen 5, 6 ó 7 miembros del anillo. Los ejemplos de anillos no aromáticos incluyen ciclopentilo, ciclopentenilo, ciclopentadienilo, ciclohexilo, ciclohexenilo, ciclohexadienilo, cicloheptilo, cicloheptenilo, cicloheptadienilo y similares.

El término "alcandiílo C_1–C_8" se refiere a un radical hidrocarbonado saturado divalente ramificado o lineal que tiene 1 a 8 átomos de carbono, derivado por la eliminación de un átomo de hidrógeno de cada uno de diferentes átomos de carbono de un alcano C_1–C_8 principal, o por la eliminación de dos átomos de hidrógeno de un átomo de carbono individual de un alcano C_1–C_8 principal, por ejemplo, metandiílo, etan–1,1–diílo, etan–1,2–diílo, propan–1,1–diílo, propan–1,2–diílo, propan–2,2–diílo, propan–1,3–diílo, butan–1,1–diílo, butan–1,2–diílo, butan–1,3–diílo, butan–1,4–diílo, butan–2,2–diílo, 2–metil–propan–1,1–diílo, 2–metil–propan–1,2–diílo, y similares.

El término "haloalcandiílo C_1–C_8" se refiere a un grupo hidrocarbonado saturado divalente, ramificado o lineal que tiene 1 a 8 átomos de carbono, tal como se definió con anterioridad, en donde algunos o todos los átomos de hidrógeno en estos grupos pueden estar reemplazados por átomos de halógeno tal como se mencionó con anterioridad.

El término "alquendiílo C_2–C_8" se refiere a un grupo hidrocarbonado insaturado divalente, ramificado o lineal que tiene 2 a 8 átomos de carbono, derivado por la eliminación de un átomo de hidrógeno cada uno de dos diferentes átomos de carbono de un alqueno C_2–C_8 principal o por la eliminación de dos átomos de hidrógeno de un átomo de carbono individual de un alqueno C_2–C_8 principal, por ejemplo, eten–1,2–diílo, eten–1,1–diílo, prop–1–en–1,1–diílo, prop–2–en–1,2–diílo, prop–1–en–1,3–diílo, propen–3,3–diílo, propen–2,2–diílo, but–2–en–1,4–diílo, y similares.

El término "haloalquendiílo C_2–C_8" se refiere a un grupo hidrocarbonado insaturado divalente, ramificado o lineal que tiene 2 a 8 átomos de carbono, tal como se definió con anterioridad, en donde algunos o todos los átomos de hidrógeno en estos grupos pueden estar reemplazados por átomos de halógeno tal como se mencionó con anterioridad.

El término "alquindiílo C_2–C_8" se refiere a un radical hidrocarbonado insaturado divalente, ramificado o lineal que tiene 2 a 8 átomos de carbono, derivado por la eliminación de un átomo de hidrógeno cada uno de dos diferentes átomos de carbono del alquino C_2–C_8 principal o por la eliminación de dos átomos de hidrógeno de un átomo de carbono individual de un alquino C_2–C_8 principal, por ejemplo, prop–2–in–1,1–diílo, prop–2–in–1,3–diílo, prop–1–in–1,3–diílo, but–1–in–1,3–diílo, but–1–in–1,4–diílo, but–2–in–1,4–diílo y similares.

El término "haloalquildiílo C_2–C_8" se refiere a un radical hidrocarbonado insaturado

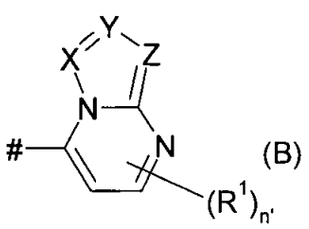
divalente, ramificado o lineal que tiene 2 a 8 carbonos, tal como se definió con anterioridad, en donde algunos o todos los átomos de hidrógeno en estos grupos pueden estar reemplazados por átomos de halógeno tal como se mencionó con anterioridad.

El término "fenileno" se refiere a 1,2–fenileno (o–fenileno), 1,3–fenileno (m–fenileno) y 1,4–fenileno (p–fenileno).

El término "heteroarendiílo de 5 ó 6 miembros" se refiere a un radical divalente derivado de heterociclos aromáticos que tienen 5 ó 6 átomos del anillo, tal como se definió con anterioridad, heterociclos aromáticos que tienen dos puntos de unión. Los ejemplos de radicales heteroarendiílo son, por ejemplo, radicales divalentes derivados de piridina, pirimidina, piridazina, 1,2,3–triazina, 1,2,4–triazina, 1,2,3,4–tetrazina, furano, tiofeno, pirrol, tiazol, tiadiazol, pirazol, imidazol, triazol, tetrazol, oxazol, isoxazol, isotiazol, oxadiazol y similares. Los grupos antes mencionados pueden estar unidos a C o a N donde esto es posible. Por ejemplo, un grupo derivado de pirrol, imidiazol o pirazol puede estar unido a N o a C.

La expresión "cuando A es fenileno o heteroarendiílo de 5 ó 6 miembros, el radical R^3 junto con un radical R^A puede formar junto con los átomos de carbono a los que está unido un anillo benceno fusionado" se refiere a un sistema de anillos bicíclicos, en donde fenileno y heteroarenediílo, respectivamente, llevan un anillo benceno fusionado. Los ejemplos de anillos bicíclicos fusionados incluyen naftaleno, benzo[b]furano, benzo[b]tiofeno, bencimidazol, benzoxazol, benztiazol, indol, quinolina y similares. El anillo benceno fusionado puede estar no sustituido o sustituido con 1, 2, 3 radicales sustituyentes seleccionados, de modo independiente entre sí, del grupo que consiste en halógeno, ciano, nitro, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo. Además, el resto de fenileno y el resto de heteroarendiílo de sistemas de anillos bicíclicos pueden no estar sustituidos o pueden estar sustituidos con 1, 2 ó 3 sustituyentes R^A.

El término "un radical R^1 que está unido a un átomo de carbono adyacente a un átomo de nitrógeno del anillo pirimidina puede formar junto con dicho átomo de carbono y átomo de nitrógeno un heterociclo aromático de cinco miembros fusionado, que puede contener uno, dos o tres átomos de nitrógeno más como miembros del anillo" se refiere en particular a un radical de la fórmula (B)



(B)

en la que # denota el punto de unión con el esqueleto de la molécula restante, X, Y y Z están seleccionados, de modo independiente entre sí, de, CH y nitrógeno, R^1 es tal como se definió con anterioridad y n' es 0 ó 1.

Respecto de la actividad pesticida de los compuestos de la fórmula (I), se da preferencia a aquellos compuestos de la fórmula (I), en donde las variables n, R^1, R^2, R^3, y

A tienen, de modo independiente entre sí, uno o varios de los siguientes significados, preferentemente en combinación.

Se da preferencia a compuestos de la fórmula (I), en los que A es fenileno o heteroarendiílo, tal como se definió con anterioridad, que pueden ser ambos no sustituidos o que pueden llevar uno, dos o tres sustituyentes R^A.

Se da particular preferencia a compuestos de la fórmula (I), en los que A es fenileno, que no está sustituido o que está sustituido con uno, dos o tres sustituyentes R^A, prefiriendo más 1,3–fenileno o 1,4–fenileno. Se da máxima preferencia a compuestos de la fórmula (I), en los que A es 1,4–fenileno, que pueden no estar sustituidos o que pueden estar sustituidos con uno, dos o tres sustituyentes R^A, con preferencia especial A es 1,4–fenileno, que no está sustituido.

De la misma manera, se da preferencia particular a compuestos de la fórmula (I), en los que A es heteroarendiílo seleccionado del grupo que consiste en piridindiílo, pirimidindiílo, piridazindiílo, pirazindiílo, furandiílo, tiofendiílo, pirroldiílo, tiazoldiílo, pirazoldiílo, imidazoldiílo, triazoldiílo, tetrazoldiílo, triazina, oxazoldiílo, isoxazoldiílo, isotiazoldiílo, tiadiazoldiílo y oxadiazol, y donde los últimos 18 radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^A. Cuando un punto de unión está ubicado en un átomo de nitrógeno del radical heteroarendiílo, dicho átomo de nitrógeno está unido ya sea al átomo de azufre del grupo sulfonamida o a R^3, prefiriendo más el punto de unión con R^3.

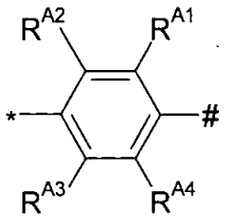
Los ejemplos de radicales heteroarendiílo A son piridin–2,3–diílo, piridin–2,4–diílo, piridin–2,5–diílo, piridin–2,6–diílo, piridin–3,5–diílo, pirimidin–2,4–diílo, pirimidin–2,5–diílo, pirimidin–4,6–diílo, piridazin–3,6–diílo, piridazin–3,5–diílo, pirazin–2,6–diílo, pirazin–2,5–diílo, 1,2,3–triazin–4,5–diílo, 1,2,3–triazin–4,6–diílo, 1,2,4–triazin–3,6–diílo, 1,2,4–triazin–3,5–diílo, 1,3,5–triazin–2,4–diílo, furan–2,5–diílo, furan–2,4–diílo, furan–3,5–diílo, tiofen–2,5–diílo, tiofen–2,4–diílo, tiofen–3,5–diílo, pirrol–2,4–diílo, pirrol–2,5–diílo, [1H]–pirrol–1,3–diílo, tiazol–2,4–diílo, tiazol–2,5–diílo, pirazol–3,4–diílo, pirazol–3,5–diílo, [1H]–pirazol–1,3–diílo, [1H]–pirazol–1,4–diílo, imidazol–2,4–diílo, imidazol–2,5–diílo, [1H]–imidazol–1,4–diílo, [1H]–1,2,3–triazol–4,5–diílo, [1H]–1,2,3–triazol–1,5–diílo, [1H]–1,2,3–triazol–1,4–diílo, [1H]–1,2,4–triazol–3,5–diílo, [1H]–1,2,4–triazol–1,3–diílo, [1H]–1,2,3–triazol–1,5–diílo, [1H]–1,2,3,4–tetrazol–4,5–diílo, 2,4–oxazoldiílo, 2,5–oxazoldiílo, 4,5–oxazoldiílo, isoxazol–3,4–diílo, isoxazol–3,5–diílo, isoxazol–4,5–diílo, isotiazol–3,4–diílo, isotiazol–3,5–diílo, isotiazol–4,5–diílo, 1,2,3–oxadiazol–4,5–diílo, 1,2,4–oxadiazol–3,5–diílo, 1,3,4–oxadiazol–2,5–diílo, 1,2,5–oxadiazol–3,4–diílo, 1,2,3–tiadiazol–4,5–diílo, 1,2,4–tiadiazol–3,5–diílo, 1,3,4–tiadiazol–2,5–diílo y 1,2,5–tiadiazol–3,4–diílo, y cada uno de los cuales está opcionalmente sustituido con uno, dos o tres sustituyentes R^A.

Entre los compuestos de la fórmula (I), en los que A es heteroarendiílo, se da particular preferencia a aquellos en los que A es tiofendiílo, tiazoldiílo, oxazoldiílo, pirazoldiílo o piridindiílo, donde cada uno de los cinco radicales antes mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^A.

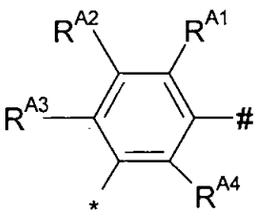
Entre los compuestos de la fórmula (I), en los que A es heteroarendiílo, se da

máxima preferencia a aquellos en los que A está seleccionado del grupo que consiste en tiofen–2,5–diílo, tiofen–2,4–diílo, tiofen–3,5–diílo, tiazol–2,5–diílo, tiazol–2,4–diílo, oxazol–2,5–diílo, oxazol–2,4–diílo, pirazol–3,5–diílo, pirazol–1,3–diílo, pirazol–1,4–diílo, piridin–2,5–diílo, piridin–2,6–diílo, piridin–2,4–diílo, piridin–3,5–diílo, en donde heteroarendiílo no está sustituido o lleva uno, dos o tres sustituyentes R^A.

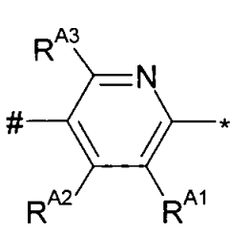
Las formas de realización de la invención de particular preferencia se refieren a compuestos de la fórmula (I), en los que A es uno de los radicales A–1 a A–30



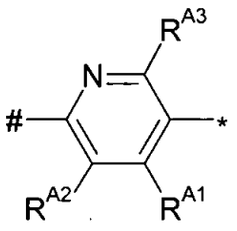
A-1



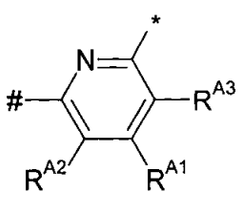
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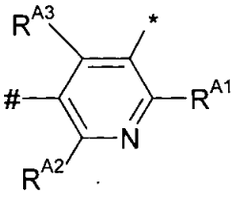
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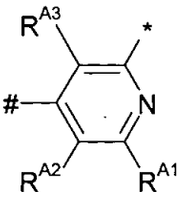
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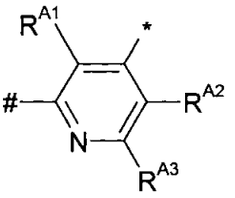
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A-6



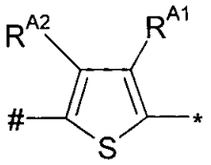
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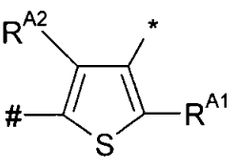
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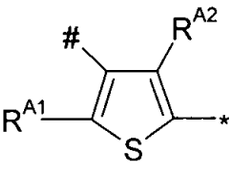
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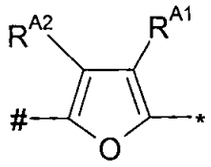
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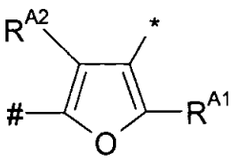
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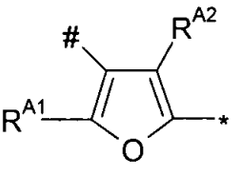
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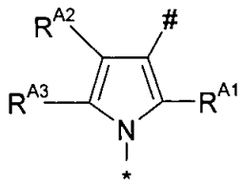
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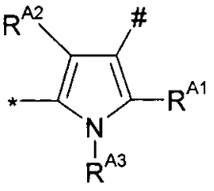
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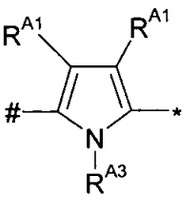
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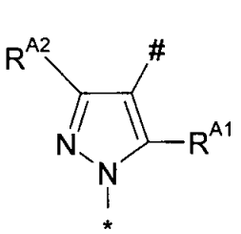
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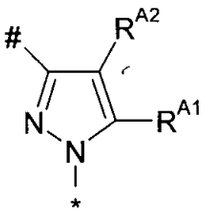
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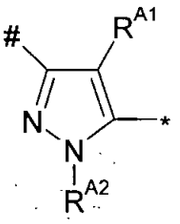
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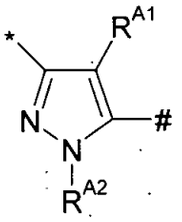
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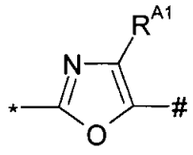
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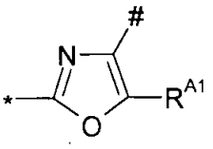
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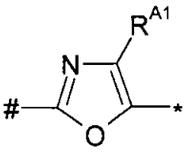
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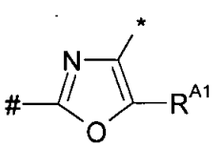
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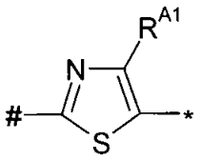
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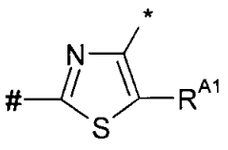
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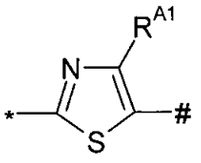
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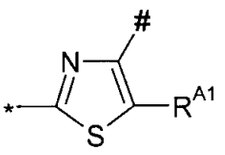
A-27



A-28



A-29



A-30

en los que

indica el punto de unión con el átomo de azufre del grupo sufonamida;

* indica el punto de unión con R^3; y

R^{A1}, R^{A2}, R^{A3} y R^{A4} son cada uno, de modo independiente, hidrógeno o tienen una de las definiciones especificadas para R^A, prefiriendo en especial aquellos.

Cuando está presente R^A, los sustituyentes R^A preferidos están seleccionados, de modo independiente entre sí, de halógeno, tales como flúor o cloro, alquilo C_1–C_4, tales como metilo o etilo, alcoxi C_1–C_4, tales como metoxi, haloalcoxi C_1–C_4 tales como fluoroalcoxi C_1–C_2, haloalquilo C_1–C_4 tales como fluoroalquilo C_1–C_2 y ciano.

Otra forma de realización preferida de la invención se refiere a compuestos de la fórmula (I) en los que A es alquen C_2–C_4–diílo, haloalquen C_2–C_4–diílo, alquin C_2–C_4–diílo o haloalquin C_2–C_4–diílo, y donde los últimos cuatro radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^{AA}. Los sustituyentes R^{AA} preferidos están seleccionados de alcoxi C_1–C_4 y haloalcoxi C_1–C_4. R^{AA} es en particular alcoxi C_1–C_2, tales como metoxi, o fluoroalcoxi C_1–C_2, tal como trifluorometoxi. Entre ellos, se da particular preferencia a compuestos de la fórmula (I), en los que A es eten–1,2–diílo o etin–1,2–diílo, que pueden no estar sustituidos o que pueden llevar 1 sustituyente R^{AA} tal como se definió con anterioridad.

Se prefieren los compuestos de la fórmula (I), en donde R^3 es fenilo o fenoxi, donde los últimos dos radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^B. Los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tal como trifluorometilo, alcoxi C_1–C_2 tal como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tal como trifluorometoxi, alcoxi C_1–C_2–carbonilo tal como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo,

en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tal como dimetilaminocarbonilo. Los radicales R^B de especial preferencia se seleccionan cada uno, de modo independiente, de flúor y cloro.

Se da preferencia muy particular a compuestos de la fórmula (I) en los que R^3 es fenilo, que está sustituido con al menos un sustituyente R^B. En este caso, con preferencia especial, al menos uno de los radicales R^B está dispuesto en la posición para respecto del sitio de unión del fenilo con el resto A. En esta forma de realización, los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tal como trifluorometilo, alcoxi C_1–C_2 tal como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tal como trifluorometoxi, alcoxi C_1–C_2–carbonilo tal como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tal como dimetilaminocarbonilo. Los radicales R^B de especial preferencia están seleccionados cada uno, de modo independiente, de flúor y cloro.

De la misma manera, se prefieren mucho los compuestos de la fórmula (I), en los que R^3 es fenoxi, que está sustituido con un sustituyente R^B, siendo cloro y flúor los sustituyentes R^B de mayor preferencia. De la misma manera, se prefieren más los compuestos de la fórmula (I) en los que R^3 es fenoxi, que está sustituido con dos sustituyentes R^B iguales o diferentes. En esta forma de realización, los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tal como trifluorometilo, alcoxi C_1–C_2 tal como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tal como trifluorometoxi, alcoxicarbonilo C_1–C_2 tal como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tal como dimetilaminocarbonilo, siendo el flúor o el cloro de máxima preferencia. En esta forma de realización, con preferencia especial al menos uno de los radicales R^B está ubicado en la posición para respecto del sitio de unión del fenoxi con el resto A.

También se da preferencia a los compuestos de la fórmula (I) en los que R^3–A son juntos alquenilo C_2–C_8 o alquinilo C_2–C_8, donde dicho alquenilo o dicho alquinilo no están sustituidos o están sustituidos con R^{AA}, con preferencia con 1, 2, 3 ó 4 sustituyentes R^{AA}. Los sustituyentes R^{AA} preferidos están seleccionados de halógeno, alcoxi C_1–C_4 y haloalcoxi C_1–C_4. R^{AA} es en particular halógeno, en especial flúor y cloro, alcoxi C_1–C_2, tal como metoxi, o fluoroalcoxi C_1–C_2, tal como trifluorometoxi. Entre ellos, se da particular preferencia a compuestos de la fórmula (I), en los que R^3–A son juntos alquenilo C_2–C_4 o alquinilo C_2–C_4, que pueden no estar sustituidos o que pueden estar sustituidos tal como se definió con anterioridad.

Se da particular preferencia a aquellos compuestos de la fórmula (I), en los que las variables R^3 y A tienen en combinación los siguientes significados:

R^3 es fenilo, que no está sustituido o que está sustituido con al menos un sustituyente R^B, con preferencia uno o dos. Si R^B está presente, con preferencia especial, uno de los radicales R^B está dispuesto en la posición para respecto del sitio de unión del fenilo con el resto A. Los sustituyentes R^B preferidos son halógeno, en

particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tal como trifluorometilo, alcoxi C_1–C_2 tal como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tal como trifluorometoxi, alcoxi C_1–C_2–carbonilo tal como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tales como dimetilaminocarbonilo. Los radicales R^B de especial preferencia se seleccionan, de modo independiente, de flúor y cloro; y

A es fenileno, que no está sustituido o que está sustituido con uno, dos o tres sustituyentes R^A, en particular 1,3–fenileno o 1,4–fenileno, con preferencia especial 1,4–fenileno. Con preferencia particular, A es 1,4–fenileno, que no está sustituido. Cuando R^A está presente, los sustituyentes R^A preferidos están seleccionados, de modo independiente entre sí, de halógeno, tales como flúor o cloro, ciano, alquilo C_1–C_4, tales como metilo o etilo, alcoxi C_1–C_4, tales como metoxi, haloalcoxi C_1–C_4 tales como fluoroalcoxi C_1–C_2, y haloalquilo C_1–C_4 tales como fluoroalquilo C_1–C_2.

Asimismo se da particular preferencia a aquellos compuestos de la fórmula (I), en los que las variables R^3 y A tienen en combinación los siguientes significados:

R^3 es fenilo, que no está sustituido o que está sustituido con al menos un sustituyente R^B, con preferencia uno o dos. Cuando R^B está presente, con preferencia especial, uno de los radicales R^B está dispuesto en posición para respecto del sitio de unión del fenilo con el resto A. Los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tal como trifluorometilo, alcoxi C_1–C_2 tal como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tal como trifluorometoxi, alcoxi C_1–C_2–carbonilo tal como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tal como dimetilaminocarbonilo. Los radicales R^B de especial preferencia están seleccionados cada uno, de modo independiente, de flúor y cloro; y

A es heteroarendiílo, que no está sustituido o que lleva uno, dos o tres sustituyentes R^A. Cuando R^A está presente, los sustituyentes R^A preferidos están seleccionados, de modo independiente, de halógeno, tales como flúor o cloro, ciano, alquilo C_1–C_4, tales como metilo o etilo, alcoxi C_1–C_4, tales como metoxi, haloalcoxi C_1–C_4 tales como fluoroalcoxi C_1–C_2, y haloalquilo C_1–C_4 tales como fluoroalquilo C_1–C_2. Con mayor preferencia, heteroarendiílo está seleccionado del grupo que consiste en tiofen–2,5–diílo, tiofen–2,4–diílo, furan–2,5–diílo, furan–2,4–diílo, pirrol–2,4–diílo, pirrol–2,5–diílo, [1H]–pirrol–1,3–diílo, tiazol–2,5–diílo, tiazol–2,4–diílo, oxazol–2,5–diílo, oxazol–2,4–diílo, pirazol–3,5–diílo, pirazol–1,3–diílo, pirazol–1,4–diílo, piridin–2,5–diílo, piridin–2,6–diílo, piridin–2,4–diílo, piridin–3,5–diílo y piridazin–3,6–diílo, en donde heteroarendiílo no está sustituido o lleva uno, dos o tres sustituyentes R^A, en especial uno de los radicales A–3, A–4, A–5, A–6, A–7, A–8, A–9, A–10, A–11, A–12, A–13, A–14, A–15, A–16, A–17, A–18, A–19, A–20, A–21,

A–22, A–23, A–24, A–25, A–26, A–27, A–28, A–29 o A–30 tal como se definió con anterioridad.

También se da particular preferencia a aquellos compuestos de la fórmula (I), en los que las variables R^3 y A tienen en combinación los siguientes significados:

R^3 es fenoxi, que no está sustituido;

es fenoxi, que está sustituido con un sustituyente R^B, siendo cloro y flúor los sustituyentes R^B de máxima preferencia o

es fenoxi, que está sustituido con dos sustituyentes R^B iguales o diferentes. En esta forma de realización, los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tales como trifluorometilo, alcoxi C_1–C_2 tales como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tales como trifluorometoxi, alcoxi C_1–C_2–carbonilo tales como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tales como dimetilaminocarbonilo, siendo flúor o cloro de máxima preferencia. Cuando está presente R^B, con preferencia especial uno de los radicales R^B está dispuesto en posición para respecto del sitio de unión del fenoxi con el resto A; y

A es fenileno, que no está sustituido o que está sustituido con uno, dos o tres sustituyentes R^A, en particular 1,3–fenileno o 1,4–fenileno, con preferencia especial 1,4–fenileno. Con particular preferencia, A es 1,4–fenileno, que no está sustituido. Cuando R^A está presente, los sustituyentes R^A preferidos están seleccionados, de modo independiente, de halógeno, tales como flúor o cloro, ciano, alquilo C_1–C_4, tales como metilo o etilo, alcoxi C_1–C_4, tales como metoxi, haloalcoxi C_1–C_4 tales como fluoroalcoxi C_1–C_2, y haloalquilo C_1–C_4 tales como fluoroalquilo C_1–C_2.

También se da particular preferencia a aquellos compuestos de la fórmula (I), en los que las variables R^3 y A tienen en combinación los siguientes significados:

R^3 es fenoxi, que no está sustituido,

es fenoxi, que está sustituido con un sustituyente R^B, siendo cloro y flúor los sustituyentes R^B de máxima preferencia o

es fenoxi, que está sustituido con dos sustituyentes R^B iguales o diferentes. En esta forma de realización, los sustituyentes R^B preferidos son halógeno, en particular flúor o cloro, alquilo C_1–C_2 tales como metilo o etilo, fluoroalquilo C_1–C_2 tales como trifluorometilo, alcoxi C_1–C_2 tales como metoxi, fluoroalcoxi C_1–C_2, en particular fluoroalcoxi C_1–C_2, tales como trifluorometoxi, alcoxi C_1–C_2–carbonilo tales como metoxicarbonilo, (alcoxi C_1–C_2)carbonilo, en particular metoxicarbonilo, o di(alquil C_1–C_2)aminocarbonilo, tales como dimetilaminocarbonilo, siendo flúor o cloro de máxima preferencia. Cuando R^B está presente, con preferencia especial uno de los radicales R^B está dispuesto en posición para respecto del sitio de unión

del fenoxi con el resto A; y

A es heteroarenediílo, que no está sustituido o lleva uno, dos o tres sustituyentes R^A. Cuando R^A está presente, los sustituyentes R^A preferidos están seleccionados, de modo independiente, de halógeno, tales como flúor o cloro, ciano, alquilo C_1–C_4, tales como metilo o etilo, alcoxi C_1–C_4, tales como metoxi, haloalcoxi C_1–C_4 tales como fluoroalcoxi C_1–C_2, y haloalquilo C_1–C_4 tales como fluoroalquilo C_1–C_2. Con mayor preferencia, heteroarendiílo está seleccionado del grupo que consiste en tiofen–2,5–diílo, tiofen–2,4–diílo, furan–2,5–diílo, furan–2,4–diílo, pirrol–2,4–diílo, pirrol–2,5–diílo, [1H]–pirrol–1,3–diílo, tiazol–2,5–diílo, tiazol–2,4–diílo, oxazol–2,5–diílo, oxazol–2,4–diílo, pirazol–3,5–diílo, pirazol–1,3–diílo, pirazol–1,4–diílo, piridin–2,5–diílo, piridin–2,6–diílo, piridin–2,4–diílo, piridin–3,5–diílo y piridazin–3,6–diílo, en donde heteroarendiílo no está sustituido o lleva uno, dos o tres sustituyentes R^A, en especial uno de los radicales A–3, A–4, A–5, A–6, A–7, A–8, A–9, A–10, A–11, A–12, A–13, A–14, A–15, A–16, A–17, A–18, A–19, A–20, A–21, A–22, A–23, A–24, A–25, A–26, A–27, A–28, A–29 o A–30 tal como se definió con anterioridad.

Una forma de realización específica se refiere a compuestos de la fórmula (I), en los que A es un heteroarendiílo de 5 ó 6 miembros, y el radical R^3 junto con un radical R^A forman junto con los átomos de carbono a los que están unidos un anillo benceno fusionado, en donde el anillo benceno fusionado puede no estar sustituido o puede llevar 1, 2 ó 3 sustituyentes seleccionados, de modo independiente entre sí, del grupo que consiste en halógeno, ciano, nitro, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo. En este caso, se da preferencia a R^3–A junto con benzo[b]furano o benzo[b]tiofeno, en donde el resto benceno de benzo[b]furano y benzo[b]tiofeno no está sustituido o lleva uno o dos sustituyentes. Dichos sustituyentes en el resto benceno son preferentemente alquilo C_1–C_2, en especial metilo, o halógeno, en particular cloro. El resto furano de benzo[b]furano y el resto tiofeno de benzo[b]tiofeno pueden no estar sustituidos o pueden llevar un sustituyente seleccionado con preferencia de alquilo C_1–C_2, en especial metilo, o halógeno, en especial cloro.

También se da preferencia a compuestos de la fórmula (I) en los que R^2 es hidrógeno, alquilo C_1–C_4, en especial metilo, etilo, n–propilo, 1–metiletilo (isopropilo), n–butilo o 2–metilpropilo (isobutilo), fluoroalquilo C_1–C_2, en especial trifluorometilo, alcoxi C_1–C_2, en especial metoxi, di(alquil C_1–C_2)amino, en especial dimetilamino, alquenilo C_2–C_3, en especial alilo, o alquinilo C_2–C_3, en especial propargilo. Se da mayor preferencia a compuestos de la fórmula (I) en los que R^2 es hidrógeno, metilo, etilo, n–butilo, alilo o propargilo, siendo más preferido el hidrógeno.

R^1 es con preferencia alquilo C_1–C_4, ciclopropilo, alcoxi C_1–C_4, haloalcoxi C_1-C_4, alquil C_1–C_4–tio, haloalquil C_1-C_4-tio, alquilsulfinilo C_1-C_4, haloalquilsulfinilo C_1-C_4, alquilsulfonilo C_1-C_4, haloalquilsulfonilo C_1-C_4, (C_1-C_4-alquil)amino, di(C_1-C_4-alquil)amino, o halógeno tal como F, Cl y Br. Con preferencia especial, R^1 es cloro, bromo, flúor, alquilo

C_1-C_2, en especial metilo, alcoxi C_1-C_2, en especial metoxi, alquil C_1-C_2-tio, en especial metiltio, o di(C_1-C_2-alquil)amino, en especial dimetilamino. Asimismo con preferencia especial, R^1 es seleccionado de haloalcoxi C_1-C_2, en particular difluorometoxi o trifluorometoxi, haloalquil C_1-C_2-tio, en particular difluorometiltio o trifluorometiltio, (C_1-C_2-alquil)amino, en particular metilamino y alquilsulfonilo C_1-C_2, en particular metilsulfonilo.

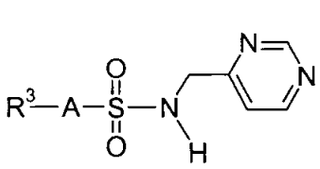
Una forma de realización preferida de la presente invención se refiere a compuestos de la fórmula (I), en los que el índice n es cero. Estos compuestos también se mencionan como compuestos (I.a).

Otra forma de realización preferida de la presente invención se refiere a compuestos de la fórmula (I), en los que el índice n es uno. Estos compuestos también se denominan compuestos (I.b). Entre ellos, se da particular preferencia a aquellos compuestos de la fórmula (I.b), en los que R^1 es cloro, bromo, flúor, metilo, metoxi, metiltio, dimetilamino, prefiriendo el cloro. Asimismo se da preferencia a los compuestos de la fórmula I.b, en donde R^1 se selecciona del grupo que consiste de metilamino, metilsulfonilo, difluorometiltio, trifluorometiltio, difluorometoxi, difluorometoxi y ciclopropilo.

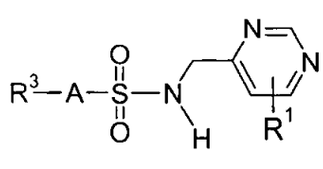
Otra forma de realización preferida se refiere a compuestos de la fórmula (I) en los que n es dos. Estos compuestos también se denominan compuestos (I.c). Entre ellos, se da particular preferencia a tose compuestos de la fórmula (I.c), en los que R^1 está seleccionado, de modo independiente entre sí, de cloro, metoxi, metilo y metiltio.

Otra forma de realización se refiere a compuestos de la fórmula (I) en los que n es tres. Estos compuestos también se denominan compuestos (I.d). Entre ellos, se da particular preferencia a tose compuestos de la fórmula (I.d), en los que R^1 es cloro, metilo, metoxi, metiltio o dimetilamino, prefiriendo el cloro.

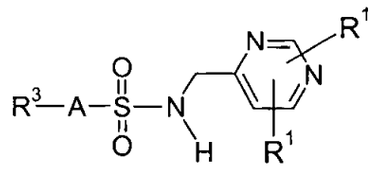
Se prefieren en especial los compuestos de las fórmulas (I.a.a), (I.b.a) y (I.c.a)



(I.a.a)



(I.b.a)



(I.c.a)

en los que R^1, R^3 y A son tal como se definieron con anterioridad.

Un especialista en el arte entenderá fácilmente que las preferencias dadas para R^3 y A en conexión con compuestos de la fórmula (I) también se aplican para la fórmula (I.a.a) tal como se define en la presente.

Un especialista en el arte entenderá fácilmente que las preferencias dadas para R^1, R^3 y A en conexión con compuestos de la fórmula (I) también se aplican para las fórmulas (I.b.a) y (I.c.a) tal como se define en la presente.

Respecto de su uso, se da particular preferencia a los compuestos de la fórmula (I) compilados en las tablas 1 a 34 que siguen.

Tabla 1: compuestos 1 a 4368

Compuestos de la fórmula (I.a), en donde R^2 es hidrógeno y la combinación R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla A

N.º	R^3–A–
1.	4–(o–CN–fenil)–fenilo
2.	4–(m–CN–fenil)–fenilo
3.	4–(p–CN–fenil)–fenilo
4.	4–(o–NO_2–fenil)–fenilo
5.	4–(m–NO_2–fenil)–fenilo
6.	4–(p–NO_2–fenil)–fenilo
7.	4–(o–F–fenil)–fenilo
8.	4–(m–F–fenil)–fenilo
9.	4–(p–F–fenil)–fenilo
10.	4–(o–Cl–fenil)–fenilo
11.	4–(m–Cl–fenil)–fenilo
12.	4–(p–Cl–fenil)–fenilo
13.	4–(o–Br–fenil)–fenilo
14.	4–(m–Br–fenil)–fenilo
15.	4–(p–Br–fenil)–fenilo
16.	4–(o–CH_3–fenil)–fenilo
17.	4–(m–CH_3–fenil)–fenilo
18.	4–(p–CH_3–fenil)–fenilo
19.	4–(o–CF_3–fenil)–fenilo
20.	4–(m–CF_3–fenil)–fenilo
21.	4–(p–CF_3–fenil)–fenilo
22.	4–(o–CF_3–fenil)–fenilo
23.	4–(m–CF_3–fenil)–fenilo
24.	4–(p–CF_3–fenil)–fenilo
25.	4–(o–OCH_3–fenil)–fenilo
26.	4–(m–OCH_3–fenil)–fenilo
27.	4–(p–OCH_3–fenil)–fenilo
28.	4–(o–OCF_3–fenil)–fenilo
29.	4–(m–OCF_3–fenil)–fenilo
30.	4–(p–OCF_3–fenil)–fenilo
31.	4–(o–$COOCH_3$–fenil)–fenilo
32.	4–(m–$COOCH_3$–fenil)–fenilo
33.	4–(p–$COOCH_3$–fenil)–fenilo
34.	4–[o–$N(CH_3)_2$–fenil]–fenilo
35.	4–[m–$N(CH_3)_2$–fenil]–fenilo
36.	4–[p–$N(CH_3)_2$–fenil]–fenilo
37.	4–(2,3–dicianofenil)–fenilo
38.	4–(2,4–dicianofenil)–fenilo
39.	4–(2,5–dicianofenil)–fenilo
40.	4–(2,6–dicianofenil)–fenilo
41.	4–(3,4–dicianofenil)–fenilo
42.	4–(3,5–dicianofenil)–fenilo
43.	4–(2,3–difluorofenil)–fenilo
44.	4–(2,4–difluorofenil)–fenilo
45.	4–(2,5–difluorofenil)–fenilo
46.	4–(2,6–difluorofenil)–fenilo
47.	4–(3,4–difluorofenil)–fenilo
48.	4–(3,5–difluorofenil)–fenilo
49.	4–(2,3–diclorofenil)–fenilo
50.	4–(2,4–diclorofenil)–fenilo
51.	4–(2,5–diclorofenil)–fenilo
52.	4–(2,6–diclorofenil)–fenilo
53.	4–(3,4–diclorofenil)–fenilo
54.	4–(3,5–diclorofenil)–fenilo
55.	4–(2,3–dibromofenil)–fenilo

N.º	R^3–A–
56.	4–(2,4–dibromofenil)–fenilo
57.	4–(2,5–dibromofenil)–fenilo
58.	4–(2,6–dibromofenil)–fenilo
59.	4–(3,4–dibromofenil)–fenilo
60.	4–(3,5–dibromofenil)–fenilo
61.	4–(2,3–dimetilfenil)–fenilo
62.	4–(2,4–dimetilfenil)–fenilo
63.	4–(2,5–dimetilfenil)–fenilo
64.	4–(2,6–dimetilfenil)–fenilo
65.	4–(3,4–dimetilfenil)–fenilo
66.	4–(3,5–dimetilfenil)–fenilo
67.	4–[2,3–di(trifluorometil)fenil]–fenilo
68.	4–[2,4–di(trifluorometil)fenil]–fenilo
69.	4–[2,5–di(trifluorometil)fenil]–fenilo
70.	4–[2,6–di(trifluorometil)fenil]–fenilo
71.	4–[3,4–di(trifluorometil)fenil]–fenilo
72.	4–[3,5–di(trifluorometil)fenil]–fenilo
73.	4–(2,3–dimetoxifenil)–fenilo
74.	4–(2,4–dimetoxifenil)–fenilo
75.	4–(2,5–dimetoxifenil)–fenilo
76.	4–(2,6–dimetoxifenil)–fenilo
77.	4–(3,4–dimetoxifenil)–fenilo
78.	4–(3,5–dimetoxifenil)–fenilo
79.	4–(o–CN–fenoxi)–fenilo
80.	4–(m–CN–fenoxi)–fenilo
81.	4–(p–CN–fenoxi)–fenilo
82.	4–(o–NO_2–fenoxi)–fenilo
83.	4–(m–NO_2–fenoxi)–fenilo
84.	4–(p–NO_2–fenoxi)–fenilo
85.	4–(o–F–fenoxi)–fenilo
86.	4–(m–F–fenoxi)–fenilo
87.	4–(p–F–fenoxi)–fenilo
88.	4–(o–Cl–fenoxi)–fenilo
89.	4–(m–Cl–fenoxi)–fenilo
90.	4–(p–Cl–fenoxi)–fenilo
91.	4–(o–Br–fenoxi)–fenilo
92.	4–(m–Br–fenoxi)–fenilo
93.	4–(p–Br–fenoxi)–fenilo
94.	4–(o–CH_3–fenoxi)–fenilo
95.	4–(m–CH_3–fenoxi)–fenilo
96.	4–(p–CH_3–fenoxi)–fenilo
97.	4–(o–CF_3–fenoxi)–fenilo
98.	4–(m–CF_3–fenoxi)–fenilo
99.	4–(p–CF_3–fenoxi)–fenilo
100.	4–(o–CF_3–fenoxi)–fenilo
101.	4–(m–CF_3–fenoxi)–fenilo
102.	4–(p–CF_3–fenoxi)–fenilo
103.	4–(o–OCH_3–fenoxi)–fenilo
104.	4–(m–OCH_3–fenoxi)–fenilo
105.	4–(p–OCH_3–fenoxi)–fenilo
106.	4–(o–OCF_3–fenoxi)–fenilo
107.	4–(m–OCF_3–fenoxi)–fenilo
108.	4–(p–OCF_3–fenoxi)–fenilo
109.	4–(o–$COOCH_3$–fenoxi)–fenilo
110.	4–(m–$COOCH_3$–fenoxi)–fenilo

N.º	R^3–A–
111.	4–(p–$COOCH_3$–fenoxi)–fenilo
112.	4–[o–$N(CH_3)_2$–fenoxi]–fenilo
113.	4–[m–$N(CH_3)_2$–fenoxi]–fenilo
114.	4–[p–$N(CH_3)_2$–fenoxi]–fenilo
115.	4–(2,3–dicianofenoxi)–fenilo
116.	4–(2,4–dicianofenoxi)–fenilo
117.	4–(2,5–dicianofenoxi)–fenilo
118.	4–(2,6–dicianofenoxi)–fenilo
119.	4–(3,4–dicianofenoxi)–fenilo
120.	4–(3,5–dicianofenoxi)–fenilo
121.	4–(2,3–difluorofenoxi)–fenilo
122.	4–(2,4–difluorofenoxi)–fenilo
123.	4–(2,5–difluorofenoxi)–fenilo
124.	4–(2,6–difluorofenoxi)–fenilo
125.	4–(3,4–difluorofenoxi)–fenilo
126.	4–(3,5–difluorofenoxi)–fenilo
127.	4–(2,3–diclorofenoxi)–fenilo
128.	4–(2,4–diclorofenoxi)–fenilo
129.	4–(2,5–diclorofenoxi)–fenilo
130.	4–(2,6–diclorofenoxi)–fenilo
131.	4–(3,4–diclorofenoxi)–fenilo
132.	4–(3,5–diclorofenoxi)–fenilo
133.	4–(2,3–dibromofenoxi)–fenilo
134.	4–(2,4–dibromofenoxi)–fenilo
135.	4–(2,5–dibromofenoxi)–fenilo
136.	4–(2,6–dibromofenoxi)–fenilo
137.	4–(3,4–dibromofenoxi)–fenilo
138.	4–(3,5–dibromofenoxi)–fenilo
139.	4–(2,3–dimetilfenoxi)–fenilo
140.	4–(2,4–dimetilfenoxi)–fenilo
141.	4–(2,5–dimetilfenoxi)–fenilo
142.	4–(2,6–dimetilfenoxi)–fenilo
143.	4–(3,4–dimetilfenoxi)–fenilo
144.	4–(3,5–dimetilfenoxi)–fenilo
145.	4–[2,3–di(trifluorometil)fenoxi]–fenilo
146.	4–[2,4–di(trifluorometil)fenoxi]–fenilo
147.	4–[2,5–di(trifluorometil)fenoxi]–fenilo
148.	4–[2,6–di(trifluorometil)fenoxi]–fenilo
149.	4–[3,4–di(trifluorometil)fenoxi]–fenilo
150.	4–[3,5–di(trifluorometil)fenoxi]–fenilo
151.	4–(2,3–dimetoxifenoxi)–fenilo
152.	4–(2,4–dimetoxifenoxi)–fenilo
153.	4–(2,5–dimetoxifenoxi)–fenilo
154.	4–(2,6–dimetoxifenoxi)–fenilo
155.	4–(3,4–dimetoxifenoxi)–fenilo
156.	4–(3,5–dimetoxifenoxi)–fenilo
157.	3–(o–CN–fenil)–fenilo
158.	3–(m–CN–fenil)–fenilo
159.	3–(p–CN–fenil)–fenilo
160.	3–(o–NO_2–fenil)–fenilo
161.	3–(m–NO_2–fenil)–fenilo
162.	3–(p–NO_2–fenil)–fenilo
163.	3–(o–F–fenil)–fenilo
164.	3–(m–F–fenil)–fenilo
165.	3–(p–F–fenil)–fenilo
166.	3–(o–Cl–fenil)–fenilo
167.	3–(m–Cl–fenil)–fenilo
168.	3–(p–Cl–fenil)–fenilo

N.º	R^3–A–
169.	3–(o–Br–fenil)–fenilo
170.	3–(m–Br–fenil)–fenilo
171.	3–(p–Br–fenil)–fenilo
172.	3–(o–CH_3–fenil)–fenilo
173.	3–(m–CH_3–fenil)–fenilo
174.	3–(p–CH_3–fenil)–fenilo
175.	3–(o–CF_3–fenil)–fenilo
176.	3–(m–CF_3–fenil)–fenilo
177.	3–(p–CF_3–fenil)–fenilo
178.	3–(o–CF_3–fenil)–fenilo
179.	3–(m–CF_3–fenil)–fenilo
180.	3–(p–CF_3–fenil)–fenilo
181.	3–(o–OCH_3–fenil)–fenilo
182.	3–(m–OCH_3–fenil)–fenilo
183.	3–(p–OCH_3–fenil)–fenilo
184.	3–(o–OCF_3–fenil)–fenilo
185.	3–(m–OCF_3–fenil)–fenilo
186.	3–(p–OCF_3–fenil)–fenilo
187.	3–(o–$COOCH_3$–fenil)–fenilo
188.	3–(m–$COOCH_3$–fenil)–fenilo
189.	3–(p–$COOCH_3$–fenil)–fenilo
190.	3–[o–$N(CH_3)_2$–fenil]–fenilo
191.	3–[m–$N(CH_3)_2$–fenil]–fenilo
192.	3–[p–$N(CH_3)_2$–fenil]–fenilo
193.	3–(2,3–dicianofenil)–fenilo
194.	3–(2,4–dicianofenil)–fenilo
195.	3–(2,5–dicianofenil)–fenilo
196.	3–(2,6–dicianofenil)–fenilo
197.	3–(3,4–dicianofenil)–fenilo
198.	3–(3,5–dicianofenil)–fenilo
199.	3–(2,3–difluorofenil)–fenilo
200.	3–(2,4–difluorofenil)–fenilo
201.	3–(2,5–difluorofenil)–fenilo
202.	3–(2,6–difluorofenil)–fenilo
203.	3–(3,4–difluorofenil)–fenilo
204.	3–(3,5–difluorofenil)–fenilo
205.	3–(2,3–diclorofenil)–fenilo
206.	3–(2,4–diclorofenil)–fenilo
207.	3–(2,5–diclorofenil)–fenilo
208.	3–(2,6–diclorofenil)–fenilo
209.	3–(3,4–diclorofenil)–fenilo
210.	3–(3,5–diclorofenil)–fenilo
211.	3–(2,3–dibromofenil)–fenilo
212.	3–(2,4–dibromofenil)–fenilo
213.	3–(2,5–dibromofenil)–fenilo
214.	3–(2,6–dibromofenil)–fenilo
215.	3–(3,4–dibromofenil)–fenilo
216.	3–(3,5–dibromofenil)–fenilo
217.	3–(2,3–dimetilfenil)–fenilo
218.	3–(2,4–dimetilfenil)–fenilo
219.	3–(2,5–dimetilfenil)–fenilo
220.	3–(2,6–dimetilfenil)–fenilo
221.	3–(3,4–dimetilfenil)–fenilo
222.	3–(3,5–dimetilfenil)–fenilo
223.	3–[2,3–di(trifluorometil)fenil]–fenilo
224.	3–[2,4–di(trifluorometil)fenil]–fenilo
225.	3–[2,5–di(trifluorometil)fenil]–fenilo
226.	3–[2,6–di(trifluorometil)fenil]–fenilo

N.º	R^3–A–
227.	3–[3,4–di(trifluorometil)fenil]–fenilo
228.	3–[3,5–di(trifluorometil)fenil]–fenilo
229.	3–(2,3–dimetoxifenil)–fenilo
230.	3–(2,4–dimetoxifenil)–fenilo
231.	3–(2,5–dimetoxifenil)–fenilo
232.	3–(2,6–dimetoxifenil)–fenilo
233.	3–(3,4–dimetoxifenil)–fenilo
234.	3–(3,5–dimetoxifenil)–fenilo
235.	3–(o–CN–fenoxi)–fenilo
236.	3–(m–CN–fenoxi)–fenilo
237.	3–(p–CN–fenoxi)–fenilo
238.	3–(o–NO_2–fenoxi)–fenilo
239.	3–(m–NO_2–fenoxi)–fenilo
240.	3–(p–NO_2–fenoxi)–fenilo
241.	3–(o–F–fenoxi)–fenilo
242.	3–(m–F–fenoxi)–fenilo
243.	3–(p–F–fenoxi)–fenilo
244.	3–(o–Cl–fenoxi)–fenilo
245.	3–(m–Cl–fenoxi)–fenilo
246.	3–(p–Cl–fenoxi)–fenilo
247.	3–(o–Br–fenoxi)–fenilo
248.	3–(m–Br–fenoxi)–fenilo
249.	3–(p–Br–fenoxi)–fenilo
250.	3–(o–CH_3–fenoxi)–fenilo
251.	3–(m–CH_3–fenoxi)–fenilo
252.	3–(p–CH_3–fenoxi)–fenilo
253.	3–(o–CF_3–fenoxi)–fenilo
254.	3–(m–CF_3–fenoxi)–fenilo
255.	3–(p–CF_3–fenoxi)–fenilo
256.	3–(o–CF_3–fenoxi)–fenilo
257.	3–(m–CF_3–fenoxi)–fenilo
258.	3–(p–CF_3–fenoxi)–fenilo
259.	3–(o–OCH_3–fenoxi)–fenilo
260.	3–(m–OCH_3–fenoxi)–fenilo
261.	3–(p–OCH_3–fenoxi)–fenilo
262.	3–(o–OCF_3–fenoxi)–fenilo
263.	3–(m–OCF_3–fenoxi)–fenilo
264.	3–(p–OCF_3–fenoxi)–fenilo
265.	3–(o–$COOCH_3$–fenoxi)–fenilo
266.	3–(m–$COOCH_3$–fenoxi)–fenilo
267.	3–(p–$COOCH_3$–fenoxi)–fenilo
268.	3–[o–$N(CH_3)_2$–fenoxi]–fenilo
269.	3–[m–$N(CH_3)_2$–fenoxi]–fenilo
270.	3–[p–$N(CH_3)_2$–fenoxi]–fenilo
271.	3–(2,3–dicianofenoxi)–fenilo
272.	3–(2,4–dicianofenoxi)–fenilo
273.	3–(2,5–dicianofenoxi)–fenilo
274.	3–(2,6–dicianofenoxi)–fenilo
275.	3–(3,4–dicianofenoxi)–fenilo
276.	3–(3,5–dicianofenoxi)–fenilo
277.	3–(2,3–difluorofenoxi)–fenilo
278.	3–(2,4–difluorofenoxi)–fenilo
279.	3–(2,5–difluorofenoxi)–fenilo
280.	3–(2,6–difluorofenoxi)–fenilo
281.	3–(3,4–difluorofenoxi)–fenilo
282.	3–(3,5–difluorofenoxi)–fenilo
283.	3–(2,3–diclorofenoxi)–fenilo
284.	3–(2,4–diclorofenoxi)–fenilo

N.º	R^3–A–
285.	3–(2,5–diclorofenoxi)–fenilo
286.	3–(2,6–diclorofenoxi)–fenilo
287.	3–(3,4–diclorofenoxi)–fenilo
288.	3–(3,5–diclorofenoxi)–fenilo
289.	3–(2,3–dibromofenoxi)–fenilo
290.	3–(2,4–dibromofenoxi)–fenilo
291.	3–(2,5–dibromofenoxi)–fenilo
292.	3–(2,6–dibromofenoxi)–fenilo
293.	3–(3,4–dibromofenoxi)–fenilo
294.	3–(3,5–dibromofenoxi)–fenilo
295.	3–(2,3–dimetilfenoxi)–fenilo
296.	3–(2,4–dimetilfenoxi)–fenilo
297.	3–(2,5–dimetilfenoxi)–fenilo
298.	3–(2,6–dimetilfenoxi)–fenilo
299.	3–(3,4–dimetilfenoxi)–fenilo
300.	3–(3,5–dimetilfenoxi)–fenilo
301.	3–[2,3–di(trifluorometil)fenoxi]–fenilo
302.	3–[2,4–di(trifluorometil)fenoxi]–fenilo
303.	3–[2,5–di(trifluorometil)fenoxi]–fenilo
304.	3–[2,6–di(trifluorometil)fenoxi]–fenilo
305.	3–[3,4–di(trifluorometil)fenoxi]–fenilo
306.	3–[3,5–di(trifluorometil)fenoxi]–fenilo
307.	3–(2,3–dimetoxifenoxi)–fenilo
308.	3–(2,4–dimetoxifenoxi)–fenilo
309.	3–(2,5–dimetoxifenoxi)–fenilo
310.	3–(2,6–dimetoxifenoxi)–fenilo
311.	3–(3,4–dimetoxifenoxi)–fenilo
312.	3–(3,5–dimetoxifenoxi)–fenilo
313.	5–(o–CN–fenil)–tien–2–ilo
314.	5–(m–CN–fenil)–tien–2–ilo
315.	5–(p–CN–fenil)–tien–2–ilo
316.	5–(o–NO_2–fenil)–tien–2–ilo
317.	5–(m–NO_2–fenil)–tien–2–ilo
318.	5–(p–NO_2–fenil)–tien–2–ilo
319.	5–(o–F–fenil)–tien–2–ilo
320.	5–(m–F–fenil)–tien–2–ilo
321.	5–(p–F–fenil)–tien–2–ilo
322.	5–(o–Cl–fenil)–tien–2–ilo
323.	5–(m–Cl–fenil)–tien–2–ilo
324.	5–(p–Cl–fenil)–tien–2–ilo
325.	5–(o–Br–fenil)–tien–2–ilo
326.	5–(m–Br–fenil)–tien–2–ilo
327.	5–(p–Br–fenil)–tien–2–ilo
328.	5–(o–CH_3–fenil)–tien–2–ilo
329.	5–(m–CH_3–fenil)–tien–2–ilo
330.	5–(p–CH_3–fenil)–tien–2–ilo
331.	5–(o–CF_3–fenil)–tien–2–ilo
332.	5–(m–CF_3–fenil)–tien–2–ilo
333.	5–(p–CF_3–fenil)–tien–2–ilo
334.	5–(o–CF_3–fenil)–tien–2–ilo
335.	5–(m–CF_3–fenil)–tien–2–ilo
336.	5–(p–CF_3–fenil)–tien–2–ilo
337.	5–(o–OCH_3–fenil)–tien–2–ilo
338.	5–(m–OCH_3–fenil)–tien–2–ilo
339.	5–(p–OCH_3–fenil)–tien–2–ilo
340.	5–(o–OCF_3–fenil)–tien–2–ilo
341.	5–(m–OCF_3–fenil)–tien–2–ilo
342.	5–(p–OCF_3–fenil)–tien–2–ilo

N.º	R^3–A–
343.	5–(o–$COOCH_3$–fenil)–tien–2–ilo
344.	5–(m–$COOCH_3$–fenil)–tien–2–ilo
345.	5–(p–$COOCH_3$–fenil)–tien–2–ilo
346.	5–[o–$N(CH_3)_2$–fenil]–tien–2–ilo
347.	5–[m–$N(CH_3)_2$–fenil]–tien–2–ilo
348.	5–[p–$N(CH_3)_2$–fenil]–tien–2–ilo
349.	5–(2,3–dicianofenil)–tien–2–ilo
350.	5–(2,4–dicianofenil)–tien–2–ilo
351.	5–(2,5–dicianofenil)–tien–2–ilo
352.	5–(2,6–dicianofenil)–tien–2–ilo
353.	5–(3,4–dicianofenil)–tien–2–ilo
354.	5–(3,5–dicianofenil)–tien–2–ilo
355.	5–(2,3–difluorofenil)–tien–2–ilo
356.	5–(2,4–difluorofenil)–tien–2–ilo
357.	5–(2,5–difluorofenil)–tien–2–ilo
358.	5–(2,6–difluorofenil)–tien–2–ilo
359.	5–(3,4–difluorofenil)–tien–2–ilo
360.	5–(3,5–difluorofenil)–tien–2–ilo
361.	5–(2,3–diclorofenil)–tien–2–ilo
362.	5–(2,4–diclorofenil)–tien–2–ilo
363.	5–(2,5–diclorofenil)–tien–2–ilo
364.	5–(2,6–diclorofenil)–tien–2–ilo
365.	5–(3,4–diclorofenil)–tien–2–ilo
366.	5–(3,5–diclorofenil)–tien–2–ilo
367.	5–(2,3–dibromofenil)–tien–2–ilo
368.	5–(2,4–dibromofenil)–tien–2–ilo
369.	5–(2,5–dibromofenil)–tien–2–ilo
370.	5–(2,6–dibromofenil)–tien–2–ilo
371.	5–(3,4–dibromofenil)–tien–2–ilo
372.	5–(3,5–dibromofenil)–tien–2–ilo
373.	5–(2,3–dimetilfenil)–tien–2–ilo
374.	5–(2,4–dimetilfenil)–tien–2–ilo
375.	5–(2,5–dimetilfenil)–tien–2–ilo
376.	5–(2,6–dimetilfenil)–tien–2–ilo
377.	5–(3,4–dimetilfenil)–tien–2–ilo
378.	5–(3,5–dimetilfenil)–tien–2–ilo
379.	5–[2,3–di(trifluorometil)fenil]–tien–2–ilo
380.	5–[2,4–di(trifluorometil)fenil]–tien–2–ilo
381.	5–[2,5–di(trifluorometil)fenil]–tien–2–ilo
382.	5–[2,6–di(trifluorometil)fenil]–tien–2–ilo
383.	5–[3,4–di(trifluorometil)fenil]–tien–2–ilo
384.	5–[3,5–di(trifluorometil)fenil]–tien–2–ilo
385.	5–(2,3–dimetoxifenil)–tien–2–ilo
386.	5–(2,4–dimetoxifenil)–tien–2–ilo
387.	5–(2,5–dimetoxifenil)–tien–2–ilo
388.	5–(2,6–dimetoxifenil)–tien–2–ilo
389.	5–(3,4–dimetoxifenil)–tien–2–ilo
390.	5–(3,5–dimetoxifenil)–tien–2–ilo
391.	5–(o–CN–fenoxi)–tien–2–ilo
392.	5–(m–CN–fenoxi)–tien–2–ilo
393.	5–(p–CN–fenoxi)–tien–2–ilo
394.	5–(o–NO_2–fenoxi)–tien–2–ilo
395.	5–(m–NO_2–fenoxi)–tien–2–ilo
396.	5–(p–NO_2–fenoxi)–tien–2–ilo
397.	5–(o–F–fenoxi)–tien–2–ilo
398.	5–(m–F–fenoxi)–tien–2–ilo
399.	5–(p–F–fenoxi)–tien–2–ilo
400.	5–(o–Cl–fenoxi)–tien–2–ilo

N.º	R^3–A–
401.	5–(m–Cl–fenoxi)–tien–2–ilo
402.	5–(p–Cl–fenoxi)–tien–2–ilo
403.	5–(o–Br–fenoxi)–tien–2–ilo
404.	5–(m–Br–fenoxi)–tien–2–ilo
405.	5–(p–Br–fenoxi)–tien–2–ilo
406.	5–(o–CH_3–fenoxi)–tien–2–ilo
407.	5–(m–CH_3–fenoxi)–tien–2–ilo
408.	5–(p–CH_3–fenoxi)–tien–2–ilo
409.	5–(o–CF_3–fenoxi)–tien–2–ilo
410.	5–(m–CF_3–fenoxi)–tien–2–ilo
411.	5–(p–CF_3–fenoxi)–tien–2–ilo
412.	5–(o–CF_3–fenoxi)–tien–2–ilo
413.	5–(m–CF_3–fenoxi)–tien–2–ilo
414.	5–(p–CF_3–fenoxi)–tien–2–ilo
415.	5–(o–OCH_3–fenoxi)–tien–2–ilo
416.	5–(m–OCH_3–fenoxi)–tien–2–ilo
417.	5–(p–OCH_3–fenoxi)–tien–2–ilo
418.	5–(o–OCF_3–fenoxi)–tien–2–ilo
419.	5–(m–OCF_3–fenoxi)–tien–2–ilo
420.	5–(p–OCF_3–fenoxi)–tien–2–ilo
421.	5–(o–$COOCH_3$–fenoxi)–tien–2–ilo
422.	5–(m–$COOCH_3$–fenoxi)–tien–2–ilo
423.	5–(p–$COOCH_3$–fenoxi)–tien–2–ilo
424.	5–[o–$N(CH_3)_2$–fenoxi]–tien–2–ilo
425.	5–[m–$N(CH_3)_2$–fenoxi]–tien–2–ilo
426.	5–[p–$N(CH_3)_2$–fenoxi]–tien–2–ilo
427.	5–(2,3–dicianofenoxi)–tien–2–ilo
428.	5–(2,4–dicianofenoxi)–tien–2–ilo
429.	5–(2,5–dicianofenoxi)–tien–2–ilo
430.	5–(2,6–dicianofenoxi)–tien–2–ilo
431.	5–(3,4–dicianofenoxi)–tien–2–ilo
432.	5–(3,5–dicianofenoxi)–tien–2–ilo
433.	5–(2,3–difluorofenoxi)–tien–2–ilo
434.	5–(2,4–difluorofenoxi)–tien–2–ilo
435.	5–(2,5–difluorofenoxi)–tien–2–ilo
436.	5–(2,6–difluorofenoxi)–tien–2–ilo
437.	5–(3,4–difluorofenoxi)–tien–2–ilo
438.	5–(3,5–difluorofenoxi)–tien–2–ilo
439.	5–(2,3–diclorofenoxi)–tien–2–ilo
440.	5–(2,4–diclorofenoxi)–tien–2–ilo
441.	5–(2,5–diclorofenoxi)–tien–2–ilo
442.	5–(2,6–diclorofenoxi)–tien–2–ilo
443.	5–(3,4–diclorofenoxi)–tien–2–ilo
444.	5–(3,5–diclorofenoxi)–tien–2–ilo
445.	5–(2,3–dibromofenoxi)–tien–2–ilo
446.	5–(2,4–dibromofenoxi)–tien–2–ilo
447.	5–(2,5–dibromofenoxi)–tien–2–ilo
448.	5–(2,6–dibromofenoxi)–tien–2–ilo
449.	5–(3,4–dibromofenoxi)–tien–2–ilo
450.	5–(3,5–dibromofenoxi)–tien–2–ilo
451.	5–(2,3–dimetilfenoxi)–tien–2–ilo
452.	5–(2,4–dimetilfenoxi)–tien–2–ilo
453.	5–(2,5–dimetilfenoxi)–tien–2–ilo
454.	5–(2,6–dimetilfenoxi)–tien–2–ilo
455.	5–(3,4–dimetilfenoxi)–tien–2–ilo
456.	5–(3,5–dimetilfenoxi)–tien–2–ilo
457.	5–[2,3–di(trifluorometil)fenoxi]–tien–2–ilo
458.	5–[2,4–di(trifluorometil)fenoxi]–tien–2–ilo

N.º	R^3–A–
459.	5–[2,5–di(trifluorometil)fenoxi]–tien–2–ilo
460.	5–[2,6–di(trifluorometil)fenoxi]–tien–2–ilo
461.	5–[3,4–di(trifluorometil)fenoxi]–tien–2–ilo
462.	5–[3,5–di(trifluorometil)fenoxi]–tien–2–ilo
463.	5–(2,3–dimetoxifenoxi)–tien–2–ilo
464.	5–(2,4–dimetoxifenoxi)–tien–2–ilo
465.	5–(2,5–dimetoxifenoxi)–tien–2–ilo
466.	5–(2,6–dimetoxifenoxi)–tien–2–ilo
467.	5–(3,4–dimetoxifenoxi)–tien–2–ilo
468.	5–(3,5–dimetoxifenoxi)–tien–2–ilo
469.	4–(o–CN–fenil)–tien–2–ilo
470.	4–(m–CN–fenil)–tien–2–ilo
471.	4–(p–CN–fenil)–tien–2–ilo
472.	4–(o–NO_2–fenil)–tien–2–ilo
473.	4–(m–NO_2–fenil)–tien–2–ilo
474.	4–(p–NO_2–fenil)–tien–2–ilo
475.	4–(o–F–fenil)–tien–2–ilo
476.	4–(m–F–fenil)–tien–2–ilo
477.	4–(p–F–fenil)–tien–2–ilo
478.	4–(o–Cl–fenil)–tien–2–ilo
479.	4–(m–Cl–fenil)–tien–2–ilo
480.	4–(p–Cl–fenil)–tien–2–ilo
481.	4–(o–Br–fenil)–tien–2–ilo
482.	4–(m–Br–fenil)–tien–2–ilo
483.	4–(p–Br–fenil)–tien–2–ilo
484.	4–(o–CH_3–fenil)–tien–2–ilo
485.	4–(m–CH_3–fenil)–tien–2–ilo
486.	4–(p–CH_3–fenil)–tien–2–ilo
487.	4–(o–CF_3–fenil)–tien–2–ilo
488.	4–(m–CF_3–fenil)–tien–2–ilo
489.	4–(p–CF_3–fenil)–tien–2–ilo
490.	4–(o–CF_3–fenil)–tien–2–ilo
491.	4–(m–CF_3–fenil)–tien–2–ilo
492.	4–(p–CF_3–fenil)–tien–2–ilo
493.	4–(o–OCH_3–fenil)–tien–2–ilo
494.	4–(m–OCH_3–fenil)–tien–2–ilo
495.	4–(p–OCH_3–fenil)–tien–2–ilo
496.	4–(o–OCF_3–fenil)–tien–2–ilo
497.	4–(m–OCF_3–fenil)–tien–2–ilo
498.	4–(p–OCF_3–fenil)–tien–2–ilo
499.	4–(o–$COOCH_3$–fenil)–tien–2–ilo
500.	4–(m–$COOCH_3$–fenil)–tien–2–ilo
501.	4–(p–$COOCH_3$–fenil)–tien–2–ilo
502.	4–[o–$N(CH_3)_2$–fenil]–tien–2–ilo
503.	4–[m–$N(CH_3)_2$–fenil]–tien–2–ilo
504.	4–[p–$N(CH_3)_2$–fenil]–tien–2–ilo
505.	4–(2,3–dicianofenil)–tien–2–ilo
506.	4–(2,4–dicianofenil)–tien–2–ilo
507.	4–(2,5–dicianofenil)–tien–2–ilo
508.	4–(2,6–dicianofenil)–tien–2–ilo
509.	4–(3,4–dicianofenil)–tien–2–ilo
510.	4–(3,5–dicianofenil)–tien–2–ilo
511.	4–(2,3–difluorofenil)–tien–2–ilo
512.	4–(2,4–difluorofenil)–tien–2–ilo
513.	4–(2,5–difluorofenil)–tien–2–ilo
514.	4–(2,6–difluorofenil)–tien–2–ilo
515.	4–(3,4–difluorofenil)–tien–2–ilo
516.	4–(3,5–difluorofenil)–tien–2–ilo

N.º	R^3–A–
517.	4–(2,3–diclorofenil)–tien–2–ilo
518.	4–(2,4–diclorofenil)–tien–2–ilo
519.	4–(2,5–diclorofenil)–tien–2–ilo
520.	4–(2,6–diclorofenil)–tien–2–ilo
521.	4–(3,4–diclorofenil)–tien–2–ilo
522.	4–(3,5–diclorofenil)–tien–2–ilo
523.	4–(2,3–dibromofenil)–tien–2–ilo
524.	4–(2,4–dibromofenil)–tien–2–ilo
525.	4–(2,5–dibromofenil)–tien–2–ilo
526.	4–(2,6–dibromofenil)–tien–2–ilo
527.	4–(3,4–dibromofenil)–tien–2–ilo
528.	4–(3,5–dibromofenil)–tien–2–ilo
529.	4–(2,3–dimetilfenil)–tien–2–ilo
530.	4–(2,4–dimetilfenil)–tien–2–ilo
531.	4–(2,5–dimetilfenil)–tien–2–ilo
532.	4–(2,6–dimetilfenil)–tien–2–ilo
533.	4–(3,4–dimetilfenil)–tien–2–ilo
534.	4–(3,5–dimetilfenil)–tien–2–ilo
535.	4–[2,3–di(trifluorometil)fenil]–tien–2–ilo
536.	4–[2,4–di(trifluorometil)fenil]–tien–2–ilo
537.	4–[2,5–di(trifluorometil)fenil]–tien–2–ilo
538.	4–[2,6–di(trifluorometil)fenil]–tien–2–ilo
539.	4–[3,4–di(trifluorometil)fenil]–tien–2–ilo
540.	4–[3,5–di(trifluorometil)fenil]–tien–2–ilo
541.	4–(2,3–dimetoxifenil)–tien–2–ilo
542.	4–(2,4–dimetoxifenil)–tien–2–ilo
543.	4–(2,5–dimetoxifenil)–tien–2–ilo
544.	4–(2,6–dimetoxifenil)–tien–2–ilo
545.	4–(3,4–dimetoxifenil)–tien–2–ilo
546.	4–(3,5–dimetoxifenil)–tien–2–ilo
547.	4–(o–CN–fenoxi)–tien–2–ilo
548.	4–(m–CN–fenoxi)–tien–2–ilo
549.	4–(p–CN–fenoxi)–tien–2–ilo
550.	4–(o–NO_2–fenoxi)–tien–2–ilo
551.	4–(m–NO_2–fenoxi)–tien–2–ilo
552.	4–(p–NO_2–fenoxi)–tien–2–ilo
553.	4–(o–F–fenoxi)–tien–2–ilo
554.	4–(m–F–fenoxi)–tien–2–ilo
555.	4–(p–F–fenoxi)–tien–2–ilo
556.	4–(o–Cl–fenoxi)–tien–2–ilo
557.	4–(m–Cl–fenoxi)–tien–2–ilo
558.	4–(p–Cl–fenoxi)–tien–2–ilo
559.	4–(o–Br–fenoxi)–tien–2–ilo
560.	4–(m–Br–fenoxi)–tien–2–ilo
561.	4–(p–Br–fenoxi)–tien–2–ilo
562.	4–(o–CH_3–fenoxi)–tien–2–ilo
563.	4–(m–CH_3–fenoxi)–tien–2–ilo
564.	4–(p–CH_3–fenoxi)–tien–2–ilo
565.	4–(o–CF_3–fenoxi)–tien–2–ilo
566.	4–(m–CF_3–fenoxi)–tien–2–ilo
567.	4–(p–CF_3–fenoxi)–tien–2–ilo
568.	4–(o–CF_3–fenoxi)–tien–2–ilo
569.	4–(m–CF_3–fenoxi)–tien–2–ilo
570.	4–(p–CF_3–fenoxi)–tien–2–ilo
571.	4–(o–OCH_3–fenoxi)–tien–2–ilo
572.	4–(m–OCH_3–fenoxi)–tien–2–ilo
573.	4–(p–OCH_3–fenoxi)–tien–2–ilo
574.	4–(o–OCF_3–fenoxi)–tien–2–ilo

N.º	R^3–A–
575.	4–(m–OCF_3–fenoxi)–tien–2–ilo
576.	4–(p–OCF_3–fenoxi)–tien–2–ilo
577.	4–(o–$COOCH_3$–fenoxi)–tien–2–ilo
578.	4–(m–$COOCH_3$–fenoxi)–tien–2–ilo
579.	4–(p–$COOCH_3$–fenoxi)–tien–2–ilo
580.	4–[o–$N(CH_3)_2$–fenoxi]–tien–2–ilo
581.	4–[m–$N(CH_3)_2$–fenoxi]–tien–2–ilo
582.	4–[p–$N(CH_3)_2$–fenoxi]–tien–2–ilo
583.	4–(2,3–dicianofenoxi)–tien–2–ilo
584.	4–(2,4–dicianofenoxi)–tien–2–ilo
585.	4–(2,5–dicianofenoxi)–tien–2–ilo
586.	4–(2,6–dicianofenoxi)–tien–2–ilo
587.	4–(3,4–dicianofenoxi)–tien–2–ilo
588.	4–(3,5–dicianofenoxi)–tien–2–ilo
589.	4–(2,3–difluorofenoxi)–tien–2–ilo
590.	4–(2,4–difluorofenoxi)–tien–2–ilo
591.	4–(2,5–difluorofenoxi)–tien–2–ilo
592.	4–(2,6–difluorofenoxi)–tien–2–ilo
593.	4–(3,4–difluorofenoxi)–tien–2–ilo
594.	4–(3,5–difluorofenoxi)–tien–2–ilo
595.	5–(2,3–diclorofenoxi)–tien–2–ilo
596.	4–(2,4–diclorofenoxi)–tien–2–ilo
597.	4–(2,5–diclorofenoxi)–tien–2–ilo
598.	4–(2,6–diclorofenoxi)–tien–2–ilo
599.	4–(3,4–diclorofenoxi)–tien–2–ilo
600.	4–(3,5–diclorofenoxi)–tien–2–ilo
601.	4–(2,3–dibromofenoxi)–tien–2–ilo
602.	4–(2,4–dibromofenoxi)–tien–2–ilo
603.	4–(2,5–dibromofenoxi)–tien–2–ilo
604.	4–(2,6–dibromofenoxi)–tien–2–ilo
605.	4–(3,4–dibromofenoxi)–tien–2–ilo
606.	4–(3,5–dibromofenoxi)–tien–2–ilo
607.	4–(2,3–dimetilfenoxi)–tien–2–ilo
608.	4–(2,4–dimetilfenoxi)–tien–2–ilo
609.	4–(2,5–dimetilfenoxi)–tien–2–ilo
610.	4–(2,6–dimetilfenoxi)–tien–2–ilo
611.	4–(3,4–dimetilfenoxi)–tien–2–ilo
612.	4–(3,5–dimetilfenoxi)–tien–2–ilo
613.	4–[2,3–di(trifluorometil)fenoxi]–tien–2–ilo
614.	4–[2,4–di(trifluorometil)fenoxi]–tien–2–ilo
615.	4–[2,5–di(trifluorometil)fenoxi]–tien–2–ilo
616.	4–[2,6–di(trifluorometil)fenoxi]–tien–2–ilo
617.	4–[3,4–di(trifluorometil)fenoxi]–tien–2–ilo
618.	4–[3,5–di(trifluorometil)fenoxi]–tien–2–ilo
619.	4–(2,3–dimetoxifenoxi)–tien–2–ilo
620.	4–(2,4–dimetoxifenoxi)–tien–2–ilo
621.	4–(2,5–dimetoxifenoxi)–tien–2–ilo
622.	4–(2,6–dimetoxifenoxi)–tien–2–ilo
623.	4–(3,4–dimetoxifenoxi)–tien–2–ilo
624.	4–(3,5–dimetoxifenoxi)–tien–2–ilo
625.	5–(o–CN–fenil)–tien–3–il
626.	5–(m–CN–fenil)–tien–3–ilo
627.	5–(p–CN–fenil)–tien–3–ilo
628.	5–(o–NO_2–fenil)–tien–3–ilo
629.	5–(m–NO_2–fenil)–tien–3–ilo
630.	5–(p–NO_2–fenil)–tien–3–ilo
631.	5–(o–F–fenil)–tien–3–ilo
632.	5–(m–F–fenil)–tien–3–ilo

N.º	R^3–A–
633.	5–(p–F–fenil)–tien–3–ilo
634.	5–(o–Cl–fenil)–tien–3–ilo
635.	5–(m–Cl–fenil)–tien–3–ilo
636.	5–(p–Cl–fenil)–tien–3–ilo
637.	5–(o–Br–fenil)–tien–3–ilo
638.	5–(m–Br–fenil)–tien–3–ilo
639.	5–(p–Br–fenil)–tien–3–ilo
640.	5–(o–CH_3–fenil)–tien–3–ilo
641.	5–(m–CH_3–fenil)–tien–3–ilo
642.	5–(p–CH_3–fenil)–tien–3–ilo
643.	5–(o–CF_3–fenil)–tien–3–ilo
644.	5–(m–CF_3–fenil)–tien–3–ilo
645.	5–(p–CF_3–fenil)–tien–3–ilo
646.	5–(o–CF_3–fenil)–tien–3–ilo
647.	5–(m–CF_3–fenil)–tien–3–ilo
648.	5–(p–CF_3–fenil)–tien–3–ilo
649.	5–(o–OCH_3–fenil)–tien–3–ilo
650.	5–(m–OCH_3–fenil)–tien–3–ilo
651.	5–(p–OCH_3–fenil)–tien–3–ilo
652.	5–(o–OCF_3–fenil)–tien–3–ilo
653.	5–(m–OCF_3–fenil)–tien–3–ilo
654.	5–(p–OCF_3–fenil)–tien–3–ilo
655.	5–(o–$COOCH_3$–fenil)–tien–3–ilo
656.	5–(m–$COOCH_3$–fenil)–tien–3–ilo
657.	5–(p–$COOCH_3$–fenil)–tien–3–ilo
658.	5–[o–$N(CH_3)_2$–fenil]–tien–3–ilo
659.	5–[m–$N(CH_3)_2$–fenil]–tien–3–ilo
660.	5–[p–$N(CH_3)_2$–fenil]–tien–3–ilo
661.	5–(2,3–dicianofenil)–tien–3–ilo
662.	5–(2,4–dicianofenil)–tien–3–ilo
663.	5–(2,5–dicianofenil)–tien–3–ilo
664.	5–(2,6–dicianofenil)–tien–3–ilo
665.	5–(3,4–dicianofenil)–tien–3–ilo
666.	5–(3,5–dicianofenil)–tien–3–ilo
667.	5–(2,3–difluorofenil)–tien–3–ilo
668.	5–(2,4–difluorofenil)–tien–3–ilo
669.	5–(2,5–difluorofenil)–tien–3–ilo
670.	5–(2,6–difluorofenil)–tien–3–ilo
671.	5–(3,4–difluorofenil)–tien–3–ilo
672.	5–(3,5–difluorofenil)–tien–3–ilo
673.	5–(2,3–diclorofenil)–tien–3–ilo
674.	5–(2,4–diclorofenil)–tien–3–ilo
675.	5–(2,5–diclorofenil)–tien–3–ilo
676.	5–(2,6–diclorofenil)–tien–3–ilo
677.	5–(3,4–diclorofenil)–tien–3–ilo
678.	5–(3,5–diclorofenil)–tien–3–ilo
679.	5–(2,3–dibromofenil)–tien–3–ilo
680.	5–(2,4–dibromofenil)–tien–3–ilo
681.	5–(2,5–dibromofenil)–tien–3–ilo
682.	5–(2,6–dibromofenil)–tien–3–ilo
683.	5–(3,4–dibromofenil)–tien–3–ilo
684.	5–(3,5–dibromofenil)–tien–3–ilo
685.	5–(2,3–dimetilfenil)–tien–3–ilo
686.	5–(2,4–dimetilfenil)–tien–3–ilo
687.	5–(2,5–dimetilfenil)–tien–3–ilo
688.	5–(2,6–dimetilfenil)–tien–3–ilo
689.	5–(3,4–dimetilfenil)–tien–3–ilo
690.	5–(3,5–dimetilfenil)–tien–3–ilo

N.º	R^3–A–
691.	5–[2,3–di(trifluorometil)fenil]–tien–3–ilo
692.	5–[2,4–di(trifluorometil)fenil]–tien–3–ilo
693.	5–[2,5–di(trifluorometil)fenil]–tien–3–ilo
694.	5–[2,6–di(trifluorometil)fenil]–tien–3–ilo
695.	5–[3,4–di(trifluorometil)fenil]–tien–3–ilo
696.	5–[3,5–di(trifluorometil)fenil]–tien–3–ilo
697.	5–(2,3–dimetoxifenil)–tien–3–ilo
698.	5–(2,4–dimetoxifenil)–tien–3–ilo
699.	5–(2,5–dimetoxifenil)–tien–3–ilo
700.	5–(2,6–dimetoxifenil)–tien–3–ilo
701.	5–(3,4–dimetoxifenil)–tien–3–ilo
702.	5–(3,5–dimetoxifenil)–tien–3–ilo
703.	5–(o–CN–fenoxi)–tien–3–ilo
704.	5–(m–CN–fenoxi)–tien–3–ilo
705.	5–(p–CN–fenoxi)–tien–3–ilo
706.	5–(o–NO_2–fenoxi)–tien–3–ilo
707.	5–(m–NO_2–fenoxi)–tien–3–ilo
708.	5–(p–NO_2–fenoxi)–tien–3–ilo
709.	5–(o–F–fenoxi)–tien–3–ilo
710.	5–(m–F–fenoxi)–tien–3–ilo
711.	5–(p–F–fenoxi)–tien–3–ilo
712.	5–(o–Cl–fenoxi)–tien–3–ilo
713.	5–(m–Cl–fenoxi)–tien–3–ilo
714.	5–(p–Cl–fenoxi)–tien–3–ilo
715.	5–(o–Br–fenoxi)–tien–3–ilo
716.	5–(m–Br–fenoxi)–tien–3–ilo
717.	5–(p–Br–fenoxi)–tien–3–ilo
718.	5–(o–CH_3–fenoxi)–tien–3–ilo
719.	5–(m–CH_3–fenoxi)–tien–3–ilo
720.	5–(p–CH_3–fenoxi)–tien–3–ilo
721.	5–(o–CF_3–fenoxi)–tien–3–ilo
722.	5–(m–CF_3–fenoxi)–tien–3–ilo
723.	5–(p–CF_3–fenoxi)–tien–3–ilo
724.	5–(o–CF_3–fenoxi)–tien–3–ilo
725.	5–(m–CF_3–fenoxi)–tien–3–ilo
726.	5–(p–CF_3–fenoxi)–tien–3–ilo
727.	5–(o–OCH_3–fenoxi)–tien–3–ilo
728.	5–(m–OCH_3–fenoxi)–tien–3–ilo
729.	5–(p–OCH_3–fenoxi)–tien–3–ilo
730.	5–(o–OCF_3–fenoxi)–tien–3–ilo
731.	5–(m–OCF_3–fenoxi)–tien–3–ilo
732.	5–(p–OCF_3–fenoxi)–tien–3–ilo
733.	5–(o–$COOCH_3$–fenoxi)–tien–3–ilo
734.	5–(m–$COOCH_3$–fenoxi)–tien–3–ilo
735.	5–(p–$COOCH_3$–fenoxi)–tien–3–ilo
736.	5–[o–$N(CH_3)_2$–fenoxi]–tien–3–ilo
737.	5–[m–$N(CH_3)_2$–fenoxi]–tien–3–ilo
738.	5–[p–$N(CH_3)_2$–fenoxi]–tien–3–ilo
739.	5–(2,3–dicianofenoxi)–tien–3–ilo
740.	5–(2,4–dicianofenoxi)–tien–3–ilo
741.	5–(2,5–dicianofenoxi)–tien–3–ilo
742.	5–(2,6–dicianofenoxi)–tien–3–ilo
743.	5–(3,4–dicianofenoxi)–tien–3–ilo
744.	5–(3,5–dicianofenoxi)–tien–3–ilo
745.	5–(2,3–difluorofenoxi)–tien–3–ilo
746.	5–(2,4–difluorofenoxi)–tien–3–ilo
747.	5–(2,5–difluorofenoxi)–tien–3–ilo
748.	5–(2,6–difluorofenoxi)–tien–3–ilo

N.º	R^3–A–
749.	5–(3,4–difluorofenoxi)–tien–3–ilo
750.	5–(3,5–difluorofenoxi)–tien–3–ilo
751.	5–(2,3–diclorofenoxi)–tien–3–ilo
752.	5–(2,4–diclorofenoxi)–tien–3–ilo
753.	5–(2,5–diclorofenoxi)–tien–3–ilo
754.	5–(2,6–diclorofenoxi)–tien–3–ilo
755.	5–(3,4–diclorofenoxi)–tien–3–ilo
756.	5–(3,5–diclorofenoxi)–tien–3–ilo
757.	5–(2,3–dibromofenoxi)–tien–3–ilo
758.	5–(2,4–dibromofenoxi)–tien–3–ilo
759.	5–(2,5–dibromofenoxi)–tien–3–ilo
760.	5–(2,6–dibromofenoxi)–tien–3–ilo
761.	5–(3,4–dibromofenoxi)–tien–3–ilo
762.	5–(3,5–dibromofenoxi)–tien–3–ilo
763.	5–(2,3–dimetilfenoxi)–tien–3–ilo
764.	5–(2,4–dimetilfenoxi)–tien–3–ilo
765.	5–(2,5–dimetilfenoxi)–tien–3–ilo
766.	5–(2,6–dimetilfenoxi)–tien–3–ilo
767.	5–(3,4–dimetilfenoxi)–tien–3–ilo
768.	5–(3,5–dimetilfenoxi)–tien–3–ilo
769.	5–[2,3–di(trifluorometil)fenoxi]–tien–3–ilo
770.	5–[2,4–di(trifluorometil)fenoxi]–tien–3–ilo
771.	5–[2,5–di(trifluorometil)fenoxi]–tien–3–ilo
772.	5–[2,6–di(trifluorometil)fenoxi]–tien–3–ilo
773.	5–[3,4–di(trifluorometil)fenoxi]–tien–3–ilo
774.	5–[3,5–di(trifluorometil)fenoxi]–tien–3–ilo
775.	5–(2,3–dimetoxifenoxi)–tien–3–ilo
776.	5–(2,4–dimetoxifenoxi)–tien–3–ilo
777.	5–(2,5–dimetoxifenoxi)–tien–3–ilo
778.	5–(2,6–dimetoxifenoxi)–tien–3–ilo
779.	5–(3,4–dimetoxifenoxi)–tien–3–ilo
780.	5–(3,5–dimetoxifenoxi)–tien–3–ilo
781.	4–(o–CN–fenil)–furan–2–ilo
782.	4–(m–CN–fenil)–furan–2–ilo
783.	4–(p–CN–fenil)–furan–2–ilo
784.	4–(o–NO_2–fenil)–furan–2–ilo
785.	4–(m–NO_2–fenil)–furan–2–ilo
786.	4–(p–NO_2–fenil)–furan–2–ilo
787.	4–(o–F–fenil)–furan–2–ilo
788.	4–(m–F–fenil)–furan–2–ilo
789.	4–(p–F–fenil)–furan–2–ilo
790.	4–(o–Cl–fenil)–furan–2–ilo
791.	4–(m–Cl–fenil)–furan–2–ilo
792.	4–(p–Cl–fenil)–furan–2–ilo
793.	4–(o–Br–fenil)–furan–2–ilo
794.	4–(m–Br–fenil)–furan–2–ilo
795.	4–(p–Br–fenil)–furan–2–ilo
796.	4–(o–CH_3–fenil)–furan–2–ilo
797.	4–(m–CH_3–fenil)–furan–2–ilo
798.	4–(p–CH_3–fenil)–furan–2–ilo
799.	4–(o–CF_3–fenil)–furan–2–ilo
800.	4–(m–CF_3–fenil)–furan–2–ilo
801.	4–(p–CF_3–fenil)–furan–2–ilo
802.	4–(o–CF_3–fenil)–furan–2–ilo
803.	4–(m–CF_3–fenil)–furan–2–ilo
804.	4–(p–CF_3–fenil)–furan–2–ilo
805.	4–(o–OCH_3–fenil)–furan–2–ilo
806.	4–(m–OCH_3–fenil)–furan–2–ilo

N.º	R^3–A–
807.	4–(p–OCH_3–fenil)–furan–2–ilo
808.	4–(o–OCF_3–fenil)–furan–2–ilo
809.	4–(m–OCF_3–fenil)–furan–2–ilo
810.	4–(p–OCF_3–fenil)–furan–2–ilo
811.	4–(o–$COOCH_3$–fenil)–furan–2–ilo
812.	4–(m–$COOCH_3$–fenil)–furan–2–ilo
813.	4–(p–$COOCH_3$–fenil)–furan–2–ilo
814.	4–[o–$N(CH_3)_2$–fenil]–furan–2–ilo
815.	4–[m–$N(CH_3)_2$–fenil]–furan–2–ilo
816.	4–[p–$N(CH_3)_2$–fenil]–furan–2–ilo
817.	4–(2,3–dicianofenil)–furan–2–ilo
818.	4–(2,4–dicianofenil)–furan–2–ilo
819.	4–(2,5–dicianofenil)–furan–2–ilo
820.	4–(2,6–dicianofenil)–furan–2–ilo
821.	4–(3,4–dicianofenil)–furan–2–ilo
822.	4–(3,5–dicianofenil)–furan–2–ilo
823.	4–(2,3–difluorofenil)–furan–2–ilo
824.	4–(2,4–difluorofenil)–furan–2–ilo
825.	4–(2,5–difluorofenil)–furan–2–ilo
826.	4–(2,6–difluorofenil)–furan–2–ilo
827.	4–(3,4–difluorofenil)–furan–2–ilo
828.	4–(3,5–difluorofenil)–furan–2–ilo
829.	4–(2,3–diclorofenil)–furan–2–ilo
830.	4–(2,4–diclorofenil)–furan–2–ilo
831.	4–(2,5–diclorofenil)–furan–2–ilo
832.	4–(2,6–diclorofenil)–furan–2–ilo
833.	4–(3,4–diclorofenil)–furan–2–ilo
834.	4–(3,5–diclorofenil)–furan–2–ilo
835.	4–(2,3–dibromofenil)–furan–2–ilo
836.	4–(2,4–dibromofenil)–furan–2–ilo
837.	4–(2,5–dibromofenil)–furan–2–ilo
838.	4–(2,6–dibromofenil)–furan–2–ilo
839.	4–(3,4–dibromofenil)–furan–2–ilo
840.	4–(3,5–dibromofenil)–furan–2–ilo
841.	4–(2,3–dimetilfenil)–furan–2–ilo
842.	4–(2,4–dimetilfenil)–furan–2–ilo
843.	4–(2,5–dimetilfenil)–furan–2–ilo
844.	4–(2,6–dimetilfenil)–furan–2–ilo
845.	4–(3,4–dimetilfenil)–furan–2–ilo
846.	4–(3,5–dimetilfenil)–furan–2–ilo
847.	4–[2,3–di(trifluorometil)fenil]–furan–2–ilo
848.	4–[2,4–di(trifluorometil)fenil]–furan–2–ilo
849.	4–[2,5–di(trifluorometil)fenil]–furan–2–ilo
850.	4–[2,6–di(trifluorometil)fenil]–furan–2–ilo
851.	4–[3,4–di(trifluorometil)fenil]–furan–2–ilo
852.	4–[3,5–di(trifluorometil)fenil]–furan–2–ilo
853.	4–(2,3–dimetoxifenil)–furan–2–ilo
854.	4–(2,4–dimetoxifenil)–furan–2–ilo
855.	4–(2,5–dimetoxifenil)–furan–2–ilo
856.	4–(2,6–dimetoxifenil)–furan–2–ilo
857.	4–(3,4–dimetoxifenil)–furan–2–ilo
858.	4–(3,5–dimetoxifenil)–furan–2–ilo
859.	4–(o–CN–fenoxi)–furan–2–ilo
860.	4–(m–CN–fenoxi)–furan–2–ilo
861.	4–(p–CN–fenoxi)–furan–2–ilo
862.	4–(o–NO_2–fenoxi)–furan–2–ilo
863.	4–(m–NO_2–fenoxi)–furan–2–ilo
864.	4–(p–NO_2–fenoxi)–furan–2–ilo

N.º	R^3–A–
865.	4–(o–F–fenoxi)–furan–2–ilo
866.	4–(m–F–fenoxi)–furan–2–ilo
867.	4–(p–F–fenoxi)–furan–2–ilo
868.	4–(o–Cl–fenoxi)–furan–2–ilo
869.	4–(m–Cl–fenoxi)–furan–2–ilo
870.	4–(p–Cl–fenoxi)–furan–2–ilo
871.	4–(o–Br–fenoxi)–furan–2–ilo
872.	4–(m–Br–fenoxi)–furan–2–ilo
873.	4–(p–Br–fenoxi)–furan–2–ilo
874.	4–(o–CH_3–fenoxi)–furan–2–ilo
875.	4–(m–CH_3–fenoxi)–furan–2–ilo
876.	4–(p–CH_3–fenoxi)–furan–2–ilo
877.	4–(o–CF_3–fenoxi)–furan–2–ilo
878.	4–(m–CF_3–fenoxi)–furan–2–ilo
879.	4–(p–CF_3–fenoxi)–furan–2–ilo
880.	4–(o–CF_3–fenoxi)–furan–2–ilo
881.	4–(m–CF_3–fenoxi)–furan–2–ilo
882.	4–(p–CF_3–fenoxi)–furan–2–ilo
883.	4–(o–OCH_3–fenoxi)–furan–2–ilo
884.	4–(m–OCH_3–fenoxi)–furan–2–ilo
885.	4–(p–OCH_3–fenoxi)–furan–2–ilo
886.	4–(o–OCF_3–fenoxi)–furan–2–ilo
887.	4–(m–OCF_3–fenoxi)–furan–2–ilo
888.	4–(p–OCF_3–fenoxi)–furan–2–ilo
889.	4–(o–$COOCH_3$–fenoxi)–furan–2–ilo
890.	4–(m–$COOCH_3$–fenoxi)–furan–2–ilo
891.	4–(p–$COOCH_3$–fenoxi)–furan–2–ilo
892.	4–[o–$N(CH_3)_2$–fenoxi]–furan–2–ilo
893.	4–[m–$N(CH_3)_2$–fenoxi]–furan–2–ilo
894.	4–[p–$N(CH_3)_2$–fenoxi]–furan–2–ilo
895.	4–(2,3–dicianofenoxi)–furan–2–ilo
896.	4–(2,4–dicianofenoxi)–furan–2–ilo
897.	4–(2,5–dicianofenoxi)–furan–2–ilo
898.	4–(2,6–dicianofenoxi)–furan–2–ilo
899.	4–(3,4–dicianofenoxi)–furan–2–ilo
900.	4–(3,5–dicianofenoxi)–furan–2–ilo
901.	4–(2,3–difluorofenoxi)–furan–2–ilo
902.	4–(2,4–difluorofenoxi)–furan–2–ilo
903.	4–(2,5–difluorofenoxi)–furan–2–ilo
904.	4–(2,6–difluorofenoxi)–furan–2–ilo
905.	4–(3,4–difluorofenoxi)–furan–2–ilo
906.	4–(3,5–difluorofenoxi)–furan–2–ilo
907.	5–(2,3–diclorofenoxi)–furan–2–ilo
908.	4–(2,4–diclorofenoxi)–furan–2–ilo
909.	4–(2,5–diclorofenoxi)–furan–2–ilo
910.	4–(2,6–diclorofenoxi)–furan–2–ilo
911.	4–(3,4–diclorofenoxi)–furan–2–ilo
912.	4–(3,5–diclorofenoxi)–furan–2–ilo
913.	4–(2,3–dibromofenoxi)–furan–2–ilo
914.	4–(2,4–dibromofenoxi)–furan–2–ilo
915.	4–(2,5–dibromofenoxi)–furan–2–ilo
916.	4–(2,6–dibromofenoxi)–furan–2–ilo
917.	4–(3,4–dibromofenoxi)–furan–2–ilo
918.	4–(3,5–dibromofenoxi)–furan–2–ilo
919.	4–(2,3–dimetilfenoxi)–furan–2–ilo
920.	4–(2,4–dimetilfenoxi)–furan–2–ilo
921.	4–(2,5–dimetilfenoxi)–furan–2–ilo
922.	4–(2,6–dimetilfenoxi)–furan–2–ilo

N.º	R^3–A–
923.	4–(3,4–dimetilfenoxi)–furan–2–ilo
924.	4–(3,5–dimetilfenoxi)–furan–2–ilo
925.	4–[2,3–di(trifluorometil)fenoxi]–furan–2–ilo
926.	4–[2,4–di(trifluorometil)fenoxi]–furan–2–ilo
927.	4–[2,5–di(trifluorometil)fenoxi]–furan–2–ilo
928.	4–[2,6–di(trifluorometil)fenoxi]–furan–2–ilo
929.	4–[3,4–di(trifluorometil)fenoxi]–furan–2–ilo
930.	4–[3,5–di(trifluorometil)fenoxi]–furan–2–ilo
931.	4–(2,3–dimetoxifenoxi)–furan–2–ilo
932.	4–(2,4–dimetoxifenoxi)–furan–2–ilo
933.	4–(2,5–dimetoxifenoxi)–furan–2–ilo
934.	4–(2,6–dimetoxifenoxi)–furan–2–ilo
935.	4–(3,4–dimetoxifenoxi)–furan–2–ilo
936.	4–(3,5–dimetoxifenoxi)–furan–2–ilo
937.	2–(o–CN–fenil)–pirid–5–ilo
938.	2–(m–CN–fenil)–pirid–5–ilo
939.	2–(p–CN–fenil)–pirid–5–ilo
940.	2–(o–NO_2–fenil)–pirid–5–ilo
941.	2–(m–NO_2–fenil)–pirid–5–ilo
942.	2–(p–NO_2–fenil)–pirid–5–ilo
943.	2–(o–F–fenil)–pirid–5–ilo
944.	2–(m–F–fenil)–pirid–5–ilo
945.	2–(p–F–fenil)–pirid–5–ilo
946.	2–(o–Cl–fenil)–pirid–5–ilo
947.	2–(m–Cl–fenil)–pirid–5–ilo
948.	2–(p–Cl–fenil)–pirid–5–ilo
949.	2–(o–Br–fenil)–pirid–5–ilo
950.	2–(m–Br–fenil)–pirid–5–ilo
951.	2–(p–Br–fenil)–pirid–5–ilo
952.	2–(o–CH_3–fenil)–pirid–5–ilo
953.	2–(m–CH_3–fenil)–pirid–5–ilo
954.	2–(p–CH_3–fenil)–pirid–5–ilo
955.	2–(o–CF_3–fenil)–pirid–5–ilo
956.	2–(m–CF_3–fenil)–pirid–5–ilo
957.	2–(p–CF_3–fenil)–pirid–5–ilo
958.	2–(o–CF_3–fenil)–pirid–5–ilo
959.	2–(m–CF_3–fenil)–pirid–5–ilo
960.	2–(p–CF_3–fenil)–pirid–5–ilo
961.	2–(o–OCH_3–fenil)–pirid–5–ilo
962.	2–(m–OCH_3–fenil)–pirid–5–ilo
963.	2–(p–OCH_3–fenil)–pirid–5–ilo
964.	2–(o–OCF_3–fenil)–pirid–5–ilo
965.	2–(m–OCF_3–fenil)–pirid–5–ilo
966.	2–(p–OCF_3–fenil)–pirid–5–ilo
967.	2–(o–$COOCH_3$–fenil)–pirid–5–ilo
968.	2–(m–$COOCH_3$–fenil)–pirid–5–ilo
969.	2–(p–$COOCH_3$–fenil)–pirid–5–ilo
970.	2–[o–$N(CH_3)_2$–fenil]–pirid–5–ilo
971.	2–[m–$N(CH_3)_2$–fenil]–pirid–5–ilo
972.	2–[p–$N(CH_3)_2$–fenil]–pirid–5–ilo
973.	2–(2,3–dicianofenil)–pirid–5–ilo
974.	2–(2,4–dicianofenil)–pirid–5–ilo

N.º	R^3–A–
975.	2–(2,5–dicianofenil)–pirid–5–ilo
976.	2–(2,6–dicianofenil)–pirid–5–ilo
977.	2–(3,4–dicianofenil)–pirid–5–ilo
978.	2–(3,5–dicianofenil)–pirid–5–ilo
979.	2–(2,3–difluorofenil)–pirid–5–ilo
980.	2–(2,4–difluorofenil)–pirid–5–ilo
981.	2–(2,5–difluorofenil)–pirid–5–ilo
982.	2–(2,6–difluorofenil)–pirid–5–ilo
983.	2–(3,4–difluorofenil)–pirid–5–ilo
984.	2–(3,5–difluorofenil)–pirid–5–ilo
985.	2–(2,3–diclorofenil)–pirid–5–ilo
986.	2–(2,4–diclorofenil)–pirid–5–ilo
987.	2–(2,5–diclorofenil)–pirid–5–ilo
988.	2–(2,6–diclorofenil)–pirid–5–ilo
989.	2–(3,4–diclorofenil)–pirid–5–ilo
990.	2–(3,5–diclorofenil)–pirid–5–ilo
991.	2–(2,3–dibromofenil)–pirid–5–ilo
992.	2–(2,4–dibromofenil)–pirid–5–ilo
993.	2–(2,5–dibromofenil)–pirid–5–ilo
994.	2–(2,6–dibromofenil)–pirid–5–ilo
995.	2–(3,4–dibromofenil)–pirid–5–ilo
996.	2–(3,5–dibromofenil)–pirid–5–ilo
997.	2–(2,3–dimetilfenil)–pirid–5–ilo
998.	2–(2,4–dimetilfenil)–pirid–5–ilo
999.	2–(2,5–dimetilfenil)–pirid–5–ilo
1000.	2–(2,6–dimetilfenil)–pirid–5–ilo
1001.	2–(3,4–dimetilfenil)–pirid–5–ilo
1002.	2–(3,5–dimetilfenil)–pirid–5–ilo
1003.	2–[2,3–di(trifluorometil)fenil]–pirid–5–ilo
1004.	2–[2,4–di(trifluorometil)fenil]–pirid–5–ilo
1005.	2–[2,5–di(trifluorometil)fenil]–pirid–5–ilo
1006.	2–[2,6–di(trifluorometil)fenil]–pirid–5–ilo
1007.	2–[3,4–di(trifluorometil)fenil]–pirid–5–ilo
1008.	2–[3,5–di(trifluorometil)fenil]–pirid–5–ilo
1009.	2–(2,3–dimetoxifenil)–pirid–5–ilo
1010.	2–(2,4–dimetoxifenil)–pirid–5–ilo
1011.	2–(2,5–dimetoxifenil)–pirid–5–ilo
1012.	2–(2,6–dimetoxifenil)–pirid–5–ilo
1013.	2–(3,4–dimetoxifenil)–pirid–5–ilo
1014.	2–(3,5–dimetoxifenil)–pirid–5–ilo
1015.	2–(o–CN–fenoxi)–pirid–5–ilo
1016.	2–(m–CN–fenoxi)–pirid–5–ilo
1017.	2–(p–CN–fenoxi)–pirid–5–ilo
1018.	2–(o–NO_2–fenoxi)–pirid–5–ilo
1019.	2–(m–NO_2–fenoxi)–pirid–5–ilo
1020.	2–(p–NO_2–fenoxi)–pirid–5–ilo
1021.	2–(o–F–fenoxi)–pirid–5–ilo
1022.	2–(m–F–fenoxi)–pirid–5–ilo
1023.	2–(p–F–fenoxi)–pirid–5–ilo
1024.	2–(o–Cl–fenoxi)–pirid–5–ilo
1025.	2–(m–Cl–fenoxi)–pirid–5–ilo
1026.	2–(p–Cl–fenoxi)–pirid–5–ilo
1027.	2–(o–Br–fenoxi)–pirid–5–ilo
1028.	2–(m–Br–fenoxi)–pirid–5–ilo
1029.	2–(p–Br–fenoxi)–pirid–5–ilo
1030.	2–(o–CH_3–fenoxi)–pirid–5–ilo
1031.	2–(m–CH_3–fenoxi)–pirid–5–ilo
1032.	2–(p–CH_3–fenoxi)–pirid–5–ilo

N.º	R^3–A–
1033.	2–(o–CF_3–fenoxi)–pirid–5–ilo
1034.	2–(m–CF_3–fenoxi)–pirid–5–ilo
1035.	2–(p–CF_3–fenoxi)–pirid–5–ilo
1036.	2–(o–CF_3–fenoxi)–pirid–5–ilo
1037.	2–(m–CF_3–fenoxi)–pirid–5–ilo
1038.	2–(p–CF_3–fenoxi)–pirid–5–ilo
1039.	2–(o–OCH_3–fenoxi)–pirid–5–ilo
1040.	2–(m–OCH_3–fenoxi)–pirid–5–ilo
1041.	2–(p–OCH_3–fenoxi)–pirid–5–ilo
1042.	2–(o–OCF_3–fenoxi)–pirid–5–ilo
1043.	2–(m–OCF_3–fenoxi)–pirid–5–ilo
1044.	2–(p–OCF_3–fenoxi)–pirid–5–ilo
1045.	2–(o–$COOCH_3$–fenoxi)–pirid–5–ilo
1046.	2–(m–$COOCH_3$–fenoxi)–pirid–5–ilo
1047.	2–(p–$COOCH_3$–fenoxi)–pirid–5–ilo
1048.	2–[o–$N(CH_3)_2$–fenoxi]–pirid–5–ilo
1049.	2–[m–$N(CH_3)_2$–fenoxi]–pirid–5–ilo
1050.	2–[p–$N(CH_3)_2$–fenoxi]–pirid–5–ilo
1051.	2–(2,3–dicianofenoxi)–pirid–5–ilo
1052.	2–(2,4–dicianofenoxi)–pirid–5–ilo
1053.	2–(2,5–dicianofenoxi)–pirid–5–ilo
1054.	2–(2,6–dicianofenoxi)–pirid–5–ilo
1055.	2–(3,4–dicianofenoxi)–pirid–5–ilo
1056.	2–(3,5–dicianofenoxi)–pirid–5–ilo
1057.	2–(2,3–difluorofenoxi)–pirid–5–ilo
1058.	2–(2,4–difluorofenoxi)–pirid–5–ilo
1059.	2–(2,5–difluorofenoxi)–pirid–5–ilo
1060.	2–(2,6–difluorofenoxi)–pirid–5–ilo
1061.	2–(3,4–difluorofenoxi)–pirid–5–ilo
1062.	2–(3,5–difluorofenoxi)–pirid–5–ilo
1063.	2–(2,3–diclorofenoxi)–pirid–5–ilo
1064.	2–(2,4–diclorofenoxi)–pirid–5–ilo
1065.	2–(2,5–diclorofenoxi)–pirid–5–ilo
1066.	2–(2,6–diclorofenoxi)–pirid–5–ilo
1067.	2–(3,4–diclorofenoxi)–pirid–5–ilo
1068.	2–(3,5–diclorofenoxi)–pirid–5–ilo
1069.	2–(2,3–dibromofenoxi)–pirid–5–ilo
1070.	2–(2,4–dibromofenoxi)–pirid–5–ilo
1071.	2–(2,5–dibromofenoxi)–pirid–5–ilo
1072.	2–(2,6–dibromofenoxi)–pirid–5–ilo
1073.	2–(3,4–dibromofenoxi)–pirid–5–ilo
1074.	2–(3,5–dibromofenoxi)–pirid–5–ilo
1075.	2–(2,3–dimetilfenoxi)–pirid–5–ilo
1076.	2–(2,4–dimetilfenoxi)–pirid–5–ilo
1077.	2–(2,5–dimetilfenoxi)–pirid–5–ilo
1078.	2–(2,6–dimetilfenoxi)–pirid–5–ilo
1079.	2–(3,4–dimetilfenoxi)–pirid–5–ilo
1080.	2–(3,5–dimetilfenoxi)–pirid–5–ilo
1081.	2–[2,3–di(trifluorometil)fenoxi]–pirid–5–ilo
1082.	2–[2,4–di(trifluorometil)fenoxi]–pirid–5–ilo
1083.	2–[2,5–di(trifluorometil)fenoxi]–pirid–5–ilo
1084.	2–[2,6–di(trifluorometil)fenoxi]–pirid–5–ilo
1085.	2–[3,4–di(trifluorometil)fenoxi]–pirid–5–ilo
1086.	2–[3,5–di(trifluorometil)fenoxi]–pirid–5–ilo
1087.	2–(2,3–dimetoxifenoxi)–pirid–5–ilo
1088.	2–(2,4–dimetoxifenoxi)–pirid–5–ilo
1089.	2–(2,5–dimetoxifenoxi)–pirid–5–ilo
1090.	2–(2,6–dimetoxifenoxi)–pirid–5–ilo
1091.	2–(3,4–dimetoxifenoxi)–pirid–5–ilo
1092.	2–(3,5–dimetoxifenoxi)–pirid–5–ilo
1093.	5–(o–CN–fenil)–pirid–3–ilo
1094.	5–(m–CN–fenil)–pirid–3–ilo
1095.	5–(p–CN–fenil)–pirid–3–ilo
1096.	5–(o–NO_2–fenil)–pirid–3–ilo
1097.	5–(m–NO_2–fenil)–pirid–3–ilo
1098.	5–(p–NO_2–fenil)–pirid–3–ilo
1099.	5–(o–F–fenil)–pirid–3–ilo
1100.	5–(m–F–fenil)–pirid–3–ilo
1101.	5–(p–F–fenil)–pirid–3–ilo
1102.	5–(o–Cl–fenil)–pirid–3–ilo
1103.	5–(m–Cl–fenil)–pirid–3–ilo
1104.	5–(p–Cl–fenil)–pirid–3–ilo
1105.	5–(o–Br–fenil)–pirid–3–ilo
1106.	5–(m–Br–fenil)–pirid–3–ilo
1107.	5–(p–Br–fenil)–pirid–3–ilo
1108.	5–(o–CH_3–fenil)–pirid–3–ilo
1109.	5–(m–CH_3–fenil)–pirid–3–ilo
1110.	5–(p–CH_3–fenil)–pirid–3–ilo
1111.	5–(o–CF_3–fenil)–pirid–3–ilo
1112.	5–(m–CF_3–fenil)–pirid–3–ilo
1113.	5–(p–CF_3–fenil)–pirid–3–ilo
1114.	5–(o–CF_3–fenil)–pirid–3–ilo
1115.	5–(m–CF_3–fenil)–pirid–3–ilo
1116.	5–(p–CF_3–fenil)–pirid–3–ilo
1117.	5–(o–OCH_3–fenil)–pirid–3–ilo
1118.	5–(m–OCH_3–fenil)–pirid–3–ilo
1119.	5–(p–OCH_3–fenil)–pirid–3–ilo
1120.	5–(o–OCF_3–fenil)–pirid–3–ilo
1121.	5–(m–OCF_3–fenil)–pirid–3–ilo
1122.	5–(p–OCF_3–fenil)–pirid–3–ilo
1123.	5–(o–$COOCH_3$–fenil)–pirid–3–ilo
1124.	5–(m–$COOCH_3$–fenil)–pirid–3–ilo
1125.	5–(p–$COOCH_3$–fenil)–pirid–3–ilo
1126.	5–[o–$N(CH_3)_2$–fenil]–pirid–3–ilo
1127.	5–[m–$N(CH_3)_2$–fenil]–pirid–3–ilo
1128.	5–[p–$N(CH_3)_2$–fenil]–pirid–3–ilo
1129.	5–(2,3–dicianofenil)–pirid–3–ilo
1130.	5–(2,4–dicianofenil)–pirid–3–ilo
1131.	5–(2,5–dicianofenil)–pirid–3–ilo
1132.	5–(2,6–dicianofenil)–pirid–3–ilo
1133.	5–(3,4–dicianofenil)–pirid–3–ilo
1134.	5–(3,5–dicianofenil)–pirid–3–ilo
1135.	5–(2,3–difluorofenil)–pirid–3–ilo
1136.	5–(2,4–difluorofenil)–pirid–3–ilo
1137.	5–(2,5–difluorofenil)–pirid–3–ilo
1138.	5–(2,6–difluorofenil)–pirid–3–ilo
1139.	5–(3,4–difluorofenil)–pirid–3–ilo
1140.	5–(3,5–difluorofenil)–pirid–3–ilo
1141.	5–(2,3–diclorofenil)–pirid–3–ilo
1142.	5–(2,4–diclorofenil)–pirid–3–ilo

N.º	R^3–A–
1143.	5–(2,5–diclorofenil)–pirid–3–ilo
1144.	5–(2,6–diclorofenil)–pirid–3–ilo
1145.	5–(3,4–diclorofenil)–pirid–3–ilo
1146.	5–(3,5–diclorofenil)–pirid–3–ilo
1147.	5–(2,3–dibromofenil)–pirid–3–ilo
1148.	5–(2,4–dibromofenil)–pirid–3–ilo
1149.	5–(2,5–dibromofenil)–pirid–3–ilo
1150.	5–(2,6–dibromofenil)–pirid–3–ilo
1151.	5–(3,4–dibromofenil)–pirid–3–ilo
1152.	5–(3,5–dibromofenil)–pirid–3–ilo
1153.	5–(2,3–dimetilfenil)–pirid–3–ilo
1154.	5–(2,4–dimetilfenil)–pirid–3–ilo
1155.	5–(2,5–dimetilfenil)–pirid–3–ilo
1156.	5–(2,6–dimetilfenil)–pirid–3–ilo
1157.	5–(3,4–dimetilfenil)–pirid–3–ilo
1158.	5–(3,5–dimetilfenil)–pirid–3–ilo
1159.	5–[2,3–di(trifluorometil)fenil]–pirid–3–ilo
1160.	5–[2,4–di(trifluorometil)fenil]–pirid–3–ilo
1161.	5–[2,5–di(trifluorometil)fenil]–pirid–3–ilo
1162.	5–[2,6–di(trifluorometil)fenil]–pirid–3–ilo
1163.	5–[3,4–di(trifluorometil)fenil]–pirid–3–ilo
1164.	5–[3,5–di(trifluorometil)fenil]–pirid–3–ilo
1165.	5–(2,3–dimetoxifenil)–pirid–3–ilo
1166.	5–(2,4–dimetoxifenil)–pirid–3–ilo
1167.	5–(2,5–dimetoxifenil)–pirid–3–ilo
1168.	5–(2,6–dimetoxifenil)–pirid–3–ilo
1169.	5–(3,4–dimetoxifenil)–pirid–3–ilo
1170.	5–(3,5–dimetoxifenil)–pirid–3–ilo
1171.	5–(o–CN–fenoxi)–pirid–3–ilo
1172.	5–(m–CN–fenoxi)–pirid–3–ilo
1173.	5–(p–CN–fenoxi)–pirid–3–ilo
1174.	5–(o–NO_2–fenoxi)–pirid–3–ilo
1175.	5–(m–NO_2–fenoxi)–pirid–3–ilo
1176.	5–(p–NO_2–fenoxi)–pirid–3–ilo
1177.	5–(o–F–fenoxi)–pirid–3–ilo
1178.	5–(m–F–fenoxi)–pirid–3–ilo
1179.	5–(p–F–fenoxi)–pirid–3–ilo
1180.	5–(o–Cl–fenoxi)–pirid–3–ilo
1181.	5–(m–Cl–fenoxi)–pirid–3–ilo
1182.	5–(p–Cl–fenoxi)–pirid–3–ilo
1183.	5–(o–Br–fenoxi)–pirid–3–ilo
1184.	5–(m–Br–fenoxi)–pirid–3–ilo
1185.	5–(p–Br–fenoxi)–pirid–3–ilo
1186.	5–(o–CH_3–fenoxi)–pirid–3–ilo
1187.	5–(m–CH_3–fenoxi)–pirid–3–ilo
1188.	5–(p–CH_3–fenoxi)–pirid–3–ilo
1189.	5–(o–CF_3–fenoxi)–pirid–3–ilo
1190.	5–(m–CF_3–fenoxi)–pirid–3–ilo
1191.	5–(p–CF_3–fenoxi)–pirid–3–ilo
1192.	5–(o–CF_3–fenoxi)–pirid–3–ilo
1193.	5–(m–CF_3–fenoxi)–pirid–3–ilo
1194.	5–(p–CF_3–fenoxi)–pirid–3–ilo
1195.	5–(o–OCH_3–fenoxi)–pirid–3–ilo
1196.	5–(m–OCH_3–fenoxi)–pirid–3–ilo
1197.	5–(p–OCH_3–fenoxi)–pirid–3–ilo
1198.	5–(o–OCF_3–fenoxi)–pirid–3–ilo
1199.	5–(m–OCF_3–fenoxi)–pirid–3–ilo
1200.	5–(p–OCF_3–fenoxi)–pirid–3–ilo

N.º	R^3–A–
1201.	5–(o–$COOCH_3$–fenoxi)–pirid–3–ilo
1202.	5–(m–$COOCH_3$–fenoxi)–pirid–3–ilo
1203.	5–(p–$COOCH_3$–fenoxi)–pirid–3–ilo
1204.	5–[o–$N(CH_3)_2$–fenoxi]–pirid–3–ilo
1205.	5–[m–$N(CH_3)_2$–fenoxi]–pirid–3–ilo
1206.	5–[p–$N(CH_3)_2$–fenoxi]–pirid–3–ilo
1207.	5–(2,3–dicianofenoxi)–pirid–3–ilo
1208.	5–(2,4–dicianofenoxi)–pirid–3–ilo
1209.	5–(2,5–dicianofenoxi)–pirid–3–ilo
1210.	5–(2,6–dicianofenoxi)–pirid–3–ilo
1211.	5–(3,4–dicianofenoxi)–pirid–3–ilo
1212.	5–(3,5–dicianofenoxi)–pirid–3–ilo
1213.	5–(2,3–difluorofenoxi)–pirid–3–ilo
1214.	5–(2,4–difluorofenoxi)–pirid–3–ilo
1215.	5–(2,5–difluorofenoxi)–pirid–3–ilo
1216.	5–(2,6–difluorofenoxi)–pirid–3–ilo
1217.	5–(3,4–difluorofenoxi)–pirid–3–ilo
1218.	5–(3,5–difluorofenoxi)–pirid–3–ilo
1219.	5–(2,3–diclorofenoxi)–pirid–3–ilo
1220.	5–(2,4–diclorofenoxi)–pirid–3–ilo
1221.	5–(2,5–diclorofenoxi)–pirid–3–ilo
1222.	5–(2,6–diclorofenoxi)–pirid–3–ilo
1223.	5–(3,4–diclorofenoxi)–pirid–3–ilo
1224.	5–(3,5–diclorofenoxi)–pirid–3–ilo
1225.	5–(2,3–dibromofenoxi)–pirid–3–ilo
1226.	5–(2,4–dibromofenoxi)–pirid–3–ilo
1227.	5–(2,5–dibromofenoxi)–pirid–3–ilo
1228.	5–(2,6–dibromofenoxi)–pirid–3–ilo
1229.	5–(3,4–dibromofenoxi)–pirid–3–ilo
1230.	5–(3,5–dibromofenoxi)–pirid–3–ilo
1231.	5–(2,3–dimetilfenoxi)–pirid–3–ilo
1232.	5–(2,4–dimetilfenoxi)–pirid–3–ilo
1233.	5–(2,5–dimetilfenoxi)–pirid–3–ilo
1234.	5–(2,6–dimetilfenoxi)–pirid–3–ilo
1235.	5–(3,4–dimetilfenoxi)–pirid–3–ilo
1236.	5–(3,5–dimetilfenoxi)–pirid–3–ilo
1237.	5–[2,3–di(trifluorometil)fenoxi]–pirid–3–ilo
1238.	5–[2,4–di(trifluorometil)fenoxi]–pirid–3–ilo
1239.	5–[2,5–di(trifluorometil)fenoxi]–pirid–3–ilo
1240.	5–[2,6–di(trifluorometil)fenoxi]–pirid–3–ilo
1241.	5–[3,4–di(trifluorometil)fenoxi]–pirid–3–ilo
1242.	5–[3,5–di(trifluorometil)fenoxi]–pirid–3–ilo
1243.	5–(2,3–dimetoxifenoxi)–pirid–3–ilo
1244.	5–(2,4–dimetoxifenoxi)–pirid–3–ilo
1245.	5–(2,5–dimetoxifenoxi)–pirid–3–ilo
1246.	5–(2,6–dimetoxifenoxi)–pirid–3–ilo
1247.	5–(3,4–dimetoxifenoxi)–pirid–3–ilo
1248.	5–(3,5–dimetoxifenoxi)–pirid–3–ilo
1249.	5–(o–CN–fenil)–pirid–2–ilo
1250.	5–(m–CN–fenil)–pirid–2–ilo
1251.	5–(p–CN–fenil)–pirid–2–ilo
1252.	5–(o–NO_2–fenil)–pirid–2–ilo

N.º	R^3–A–
1253.	5–(m–NO_2–fenil)–pirid–2–ilo
1254.	5–(p–NO_2–fenil)–pirid–2–ilo
1255.	5–(o–F–fenil)–pirid–2–ilo
1256.	5–(m–F–fenil)–pirid–2–ilo
1257.	5–(p–F–fenil)–pirid–2–ilo
1258.	5–(o–Cl–fenil)–pirid–2–ilo
1259.	5–(m–Cl–fenil)–pirid–2–ilo
1260.	5–(p–Cl–fenil)–pirid–2–ilo
1261.	5–(o–Br–fenil)–pirid–2–ilo
1262.	5–(m–Br–fenil)–pirid–2–ilo
1263.	5–(p–Br–fenil)–pirid–2–ilo
1264.	5–(o–CH_3–fenil)–pirid–2–ilo
1265.	5–(m–CH_3–fenil)–pirid–2–ilo
1266.	5–(p–CH_3–fenil)–pirid–2–ilo
1267.	5–(o–CF_3–fenil)–pirid–2–ilo
1268.	5–(m–CF_3–fenil)–pirid–2–ilo
1269.	5–(p–CF_3–fenil)–pirid–2–ilo
1270.	5–(o–CF_3–fenil)–pirid–2–ilo
1271.	5–(m–CF_3–fenil)–pirid–2–ilo
1272.	5–(p–CF_3–fenil)–pirid–2–ilo
1273.	5–(o–OCH_3–fenil)–pirid–2–ilo
1274.	5–(m–OCH_3–fenil)–pirid–2–ilo
1275.	5–(p–OCH_3–fenil)–pirid–2–ilo
1276.	5–(o–OCF_3–fenil)–pirid–2–ilo
1277.	5–(m–OCF_3–fenil)–pirid–2–ilo
1278.	5–(p–OCF_3–fenil)–pirid–2–ilo
1279.	5–(o–$COOCH_3$–fenil)–pirid–2–ilo
1280.	5–(m–$COOCH_3$–fenil)–pirid–2–ilo
1281.	5–(p–$COOCH_3$–fenil)–pirid–2–ilo
1282.	5–[o–$N(CH_3)_2$–fenil]–pind–2–ilo
1283.	5–[m–$N(CH_3)_2$–fenil]–pirid–2–ilo
1284.	5–[p–$N(CH_3)_2$–fenil]–pirid–2–ilo
1285.	5–(2,3–dicianofenil)–pirid–2–ilo
1286.	5–(2,4–dicianofenil)–pirid–2–ilo
1287.	5–(2,5–dicianofenil)–pirid–2–ilo
1288.	5–(2,6–dicianofenil)–pirid–2–ilo
1289.	5–(3,4–dicianofenil)–pirid–2–ilo
1290.	5–(3,5–dicianofenil)–pirid–2–ilo
1291.	5–(2,3–difluorofenil)–pirid–2–ilo
1292.	5–(2,4–difluorofenil)–pirid–2–ilo
1293.	5–(2,5–difluorofenil)–pirid–2–ilo
1294.	5–(2,6–difluorofenil)–pirid–2–ilo
1295.	5–(3,4–difluorofenil)–pirid–2–ilo
1296.	5–(3,5–difluorofenil)–pirid–2–ilo
1297.	5–(2,3–diclorofenil)–pirid–2–ilo
1298.	5–(2,4–diclorofenil)–pirid–2–ilo
1299.	5–(2,5–diclorofenil)–pirid–2–ilo
1300.	5–(2,6–diclorofenil)–pirid–2–ilo
1301.	5–(3,4–diclorofenil)–pirid–2–ilo
1302.	5–(3,5–diclorofenil)–pirid–2–ilo
1303.	5–(2,3–dibromofenil)–pirid–2–ilo
1304.	5–(2,4–dibromofenil)–pirid–2–ilo
1305.	5–(2,5–dibromofenil)–pirid–2–ilo
1306.	5–(2,6–dibromofenil)–pirid–2–ilo
1307.	5–(3,4–dibromofenil)–pirid–2–ilo
1308.	5–(3,5–dibromofenil)–pirid–2–ilo
1309.	5–(2,3–dimetilfenil)–pirid–2–ilo
1310.	5–(2,4–dimetilfenil)–pirid–2–ilo

N.º	R^3–A–
1311.	5–(2,5–dimetilfenil)–pirid–2–ilo
1312.	5–(2,6–dimetilfenil)–pirid–2–ilo
1313.	5–(3,4–dimetilfenil)–pirid–2–ilo
1314.	5–(3,5–dimetilfenil)–pirid–2–ilo
1315.	5–[2,3–di(trifluorometil)fenil]–pirid–2–ilo
1316.	5–[2,4–di(trifluorometil)fenil]–pirid–2–ilo
1317.	5–[2,5–di(trifluorometil)fenil]–pirid–2–ilo
1318.	5–[2,6–di(trifluorometil)fenil]–pirid–2–ilo
1319.	5–[3,4–di(trifluorometil)fenil]–pirid–2–ilo
1320.	5–[3,5–di(trifluorometil)fenil]–pirid–2–ilo
1321.	5–(2,3–dimetoxifenil)–pirid–2–ilo
1322.	5–(2,4–dimetoxifenil)–pirid–2–ilo
1323.	5–(2,5–dimetoxifenil)–pirid–2–ilo
1324.	5–(2,6–dimetoxifenil)–pirid–2–ilo
1325.	5–(3,4–dimetoxifenil)–pirid–2–ilo
1326.	5–(3,5–dimetoxifenil)–pirid–2–ilo
1327.	5–(o–CN–fenoxi)–pirid–2–ilo
1328.	5–(m–CN–fenoxi)–pirid–2–ilo
1329.	5–(p–CN–fenoxi)–pirid–2–ilo
1330.	5–(o–NO_2–fenoxi)–pirid–2–ilo
1331.	5–(m–NO_2–fenoxi)–pirid–2–ilo
1332.	5–(p–NO_2–fenoxi)–pirid–2–ilo
1333.	5–(o–F–fenoxi)–pirid–2–ilo
1334.	5–(m–F–fenoxi)–pirid–2–ilo
1335.	5–(p–F–fenoxi)–pirid–2–ilo
1336.	5–(o–Cl–fenoxi)–pirid–2–ilo
1337.	5–(m–Cl–fenoxi)–pirid–2–ilo
1338.	5–(p–Cl–fenoxi)–pirid–2–ilo
1339.	5–(o–Br–fenoxi)–pirid–2–ilo
1340.	5–(m–Br–fenoxi)–pirid–2–ilo
1341.	5–(p–Br–fenoxi)–pirid–2–ilo
1342.	5–(o–CH_3–fenoxi)–pirid–2–ilo
1343.	5–(m–CH_3–fenoxi)–pirid–2–ilo
1344.	5–(p–CH_3–fenoxi)–pirid–2–ilo
1345.	5–(o–CF_3–fenoxi)–pirid–2–ilo
1346.	5–(m–CF_3–fenoxi)–pirid–2–ilo
1347.	5–(p–CF_3–fenoxi)–pirid–2–ilo
1348.	5–(o–CF_3–fenoxi)–pirid–2–ilo
1349.	5–(m–CF_3–fenoxi)–pirid–2–ilo
1350.	5–(p–CF_3–fenoxi)–pirid–2–ilo
1351.	5–(o–OCH_3–fenoxi)–pirid–2–ilo
1352.	5–(m–OCH_3–fenoxi)–pirid–2–ilo
1353.	5–(p–OCH_3–fenoxi)–pirid–2–ilo
1354.	5–(o–OCF_3–fenoxi)–pirid–2–ilo
1355.	5–(m–OCF_3–fenoxi)–pirid–2–ilo
1356.	5–(p–OCF_3–fenoxi)–pirid–2–ilo
1357.	5–(o–$COOCH_3$–fenoxi)–pirid–2–ilo
1358.	5–(m–$COOCH_3$–fenoxi)–pirid–2–ilo
1359.	5–(p–$COOCH_3$–fenoxi)–pirid–2–ilo
1360.	5–[o–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1361.	5–[m–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1362.	5–[p–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1363.	5–(2,3–dicianofenoxi)–pirid–2–ilo
1364.	5–(2,4–dicianofenoxi)–pirid–2–ilo
1365.	5–(2,5–dicianofenoxi)–pirid–2–ilo
1366.	5–(2,6–dicianofenoxi)–pirid–2–ilo
1367.	5–(3,4–dicianofenoxi)–pirid–2–ilo
1368.	5–(3,5–dicianofenoxi)–pirid–2–ilo

N.º	R^3–A–
1369.	5–(2,3–difluorofenoxi)–pirid–2–ilo
1370.	5–(2,4–difluorofenoxi)–pirid–2–ilo
1371.	5–(2,5–difluorofenoxi)–pirid–2–ilo
1372.	5–(2,6–difluorofenoxi)–pirid–2–ilo
1373.	5–(3,4–difluorofenoxi)–pirid–2–ilo
1374.	5–(3,5–difluorofenoxi)–pirid–2–ilo
1375.	5–(2,3–diclorofenoxi)–pirid–2–ilo
1376.	5–(2,4–diclorofenoxi)–pirid–2–ilo
1377.	5–(2,5–diclorofenoxi)–pirid–2–ilo
1378.	5–(2,6–diclorofenoxi)–pirid–2–ilo
1379.	5–(3,4–diclorofenoxi)–pirid–2–ilo
1380.	5–(3,5–diclorofenoxi)–pirid–2–ilo
1381.	5–(2,3–dibromofenoxi)–pirid–2–ilo
1382.	5–(2,4–dibromofenoxi)–pirid–2–ilo
1383.	5–(2,5–dibromofenoxi)–pirid–2–ilo
1384.	5–(2,6–dibromofenoxi)–pirid–2–ilo
1385.	5–(3,4–dibromofenoxi)–pirid–2–ilo
1386.	5–(3,5–dibromofenoxi)–pirid–2–ilo
1387.	5–(2,3–dimetilfenoxi)–pirid–2–ilo
1388.	5–(2,4–dimetilfenoxi)–pirid–2–ilo
1389.	5–(2,5–dimetilfenoxi)–pirid–2–ilo
1390.	5–(2,6–dimetilfenoxi)–pirid–2–ilo
1391.	5–(3,4–dimetilfenoxi)–pirid–2–ilo
1392.	5–(3,5–dimetilfenoxi)–pirid–2–ilo
1393.	5–[2,3–di(trifluorometil)fenoxi]–pirid–2–ilo
1394.	5–[2,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1395.	5–[2,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1396.	5–[2,6–di(trifluorometil)fenoxi]–pirid–2–ilo
1397.	5–[3,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1398.	5–[3,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1399.	5–(2,3–dimetoxifenoxi)–pirid–2–ilo
1400.	5–(2,4–dimetoxifenoxi)–pirid–2–ilo
1401.	5–(2,5–dimetoxifenoxi)–pirid–2–ilo
1402.	5–(2,6–dimetoxifenoxi)–pirid–2–ilo
1403.	5–(3,4–dimetoxifenoxi)–pirid–2–ilo
1404.	5–(3,5–dimetoxifenoxi)–pirid–2–ilo
1405.	6–(o–CN–fenil)–pirid–2–ilo
1406.	6–(m–CN–fenil)–pirid–2–ilo
1407.	6–(p–CN–fenil)–pirid–2–ilo
1408.	6–(o–NO_2–fenil)–pirid–2–ilo
1409.	6–(m–NO_2–fenil)–pirid–2–ilo
1410.	6–(p–NO_2–fenil)–pirid–2–ilo
1411.	6–(o–F–fenil)–pirid–2–ilo
1412.	6–(m–F–fenil)–pirid–2–ilo
1413.	6–(p–F–fenil)–pirid–2–ilo
1414.	6–(o–Cl–fenil)–pirid–2–ilo
1415.	6–(m–Cl–fenil)–pirid–2–ilo
1416.	6–(p–Cl–fenil)–pirid–2–ilo
1417.	6–(o–Br–fenil)–pirid–2–ilo
1418.	6–(m–Br–fenil)–pirid–2–ilo
1419.	6–(p–Br–fenil)–pirid–2–ilo
1420.	6–(o–CH_3–fenil)–pirid–2–ilo

N.º	R^3–A–
1421.	6–(m–CH_3–fenil)–pirid–2–ilo
1422.	6–(p–CH_3–fenil)–pirid–2–ilo
1423.	6–(o–CF_3–fenil)–pirid–2–ilo
1424.	6–(m–CF_3–fenil)–pirid–2–ilo
1425.	6–(p–CF_3–fenil)–pirid–2–ilo
1426.	6–(o–CF_3–fenil)–pirid–2–ilo
1427.	6–(m–CF_3–fenil)–pirid–2–ilo
1428.	6–(p–CF_3–fenil)–pirid–2–ilo
1429.	6–(o–OCH_3–fenil)–pirid–2–ilo
1430.	6–(m–OCH_3–fenil)–pirid–2–ilo
1431.	6–(p–OCH_3–fenil)–pirid–2–ilo
1432.	6–(o–OCF_3–fenil)–pirid–2–ilo
1433.	6–(m–OCF_3–fenil)–pirid–2–ilo
1434.	6–(p–OCF_3–fenil)–pirid–2–ilo
1435.	6–(o–$COOCH_3$–fenil)–pirid–2–ilo
1436.	6–(m–$COOCH_3$–fenil)–pirid–2–ilo
1437.	6–(p–$COOCH_3$–fenil)–pirid–2–ilo
1438.	6–[o–$N(CH_3)_2$–fenil]–pirid–2–ilo
1439.	6–[m–$N(CH_3)_2$–fenil]–pirid–2–ilo
1440.	6–[p–$N(CH_3)_2$–fenil]–pirid–2–ilo
1441.	6–(2,3–dicianofenil)–pirid–2–ilo
1442.	6–(2,4–dicianofenil)–pirid–2–ilo
1443.	6–(2,5–dicianofenil)–pirid–2–ilo
1444.	6–(2,6–dicianofenil)–pirid–2–ilo
1445.	6–(3,4–dicianofenil)–pirid–2–ilo
1446.	6–(3,5–dicianofenil)–pirid–2–ilo
1447.	6–(2,3–difluorofenil)–pirid–2–ilo
1448.	6–(2,4–difluorofenil)–pirid–2–ilo
1449.	6–(2,5–difluorofenil)–pirid–2–ilo
1450.	6–(2,6–difluorofenil)–pirid–2–ilo
1451.	6–(3,4–difluorofenil)–pirid–2–ilo
1452.	6–(3,5–difluorofenil)–pirid–2–ilo
1453.	6–(2,3–diclorofenil)–pirid–2–ilo
1454.	6–(2,4–diclorofenil)–pirid–2–ilo
1455.	6–(2,5–diclorofenil)–pirid–2–ilo
1456.	6–(2,6–diclorofenil)–pirid–2–ilo
1457.	6–(3,4–diclorofenil)–pirid–2–ilo
1458.	6–(3,5–diclorofenil)–pirid–2–ilo
1459.	6–(2,3–dibromofenil)–pirid–2–ilo
1460.	6–(2,4–dibromofenil)–pirid–2–ilo
1461.	6–(2,5–dibromofenil)–pirid–2–ilo
1462.	6–(2,6–dibromofenil)–pirid–2–ilo
1463.	6–(3,4–dibromofenil)–pirid–2–ilo
1464.	6–(3,5–dibromofenil)–pirid–2–ilo
1465.	6–(2,3–dimetilfenil)–pirid–2–ilo
1466.	6–(2,4–dimetilfenil)–pirid–2–ilo
1467.	6–(2,5–dimetilfenil)–pirid–2–ilo
1468.	6–(2,6–dimetilfenil)–pirid–2–ilo
1469.	6–(3,4–dimetilfenil)–pirid–2–ilo
1470.	6–(3,5–dimetilfenil)–pirid–2–ilo
1471.	6–[2,3–di(trifluorometil)fenil]–pirid–2–ilo
1472.	6–[2,4–di(trifluorometil)fenil]–pirid–2–ilo
1473.	6–[2,5–di(trifluorometil)fenil]–pirid–2–ilo
1474.	6–[2,6–di(trifluorometil)fenil]–pirid–2–ilo
1475.	6–[3,4–di(trifluorometil)fenil]–pirid–2–ilo
1476.	6–[3,5–di(trifluorometil)fenil]–pirid–2–ilo
1477.	6–(2,3–dimetoxifenil)–pirid–2–ilo
1478.	6–(2,4–dimetoxifenil)–pirid–2–ilo

N.º	R^3–A–
1479.	6–(2,5–dimetoxifenil)–pirid–2–ilo
1480.	6–(2,6–dimetoxifenil)–pirid–2–ilo
1481.	6–(3,4–dimetoxifenil)–pirid–2–ilo
1482.	6–(3,5–dimetoxifenil)–pirid–2–ilo
1483.	6–(o–CN–fenoxi)–pirid–2–ilo
1484.	6–(m–CN–fenoxi)–pirid–2–ilo
1485.	6–(p–CN–fenoxi)–pirid–2–ilo
1486.	6–(o–NO_2–fenoxi)–pirid–2–ilo
1487.	6–(m–NO_2–fenoxi)–pirid–2–ilo
1488.	6–(p–NO_2–fenoxi)–pirid–2–ilo
1489.	6–(o–F–fenoxi)–pirid–2–ilo
1490.	6–(m–F–fenoxi)–pirid–2–ilo
1491.	6–(p–F–fenoxi)–pirid–2–ilo
1492.	6–(o–Cl–fenoxi)–pirid–2–ilo
1493.	6–(m–Cl–fenoxi)–pirid–2–ilo
1494.	6–(p–Cl–fenoxi)–pirid–2–ilo
1495.	6–(o–Br–fenoxi)–pirid–2–ilo
1496.	6–(m–Br–fenoxi)–pirid–2–ilo
1497.	6–(p–Br–fenoxi)–pirid–2–ilo
1498.	6–(o–CH_3–fenoxi)–pirid–2–ilo
1499.	6–(m–CH_3–fenoxi)–pirid–2–ilo
1500.	6–(p–CH_3–fenoxi)–pirid–2–ilo
1501.	6–(o–CF_3–fenoxi)–pirid–2–ilo
1502.	6–(m–CF_3–fenoxi)–pirid–2–ilo
1503.	6–(p–CF_3–fenoxi)–pirid–2–ilo
1504.	6–(o–CF_3–fenoxi)–pirid–2–ilo
1505.	6–(m–CF_3–fenoxi)–pirid–2–ilo
1506.	6–(p–CF_3–fenoxi)–pirid–2–ilo
1507.	6–(o–OCH_3–fenoxi)–pirid–2–ilo
1508.	6–(m–OCH_3–fenoxi)–pirid–2–ilo
1509.	6–(p–OCH_3–fenoxi)–pirid–2–ilo
1510.	6–(o–OCF_3–fenoxi)–pirid–2–ilo
1511.	6–(m–OCF_3–fenoxi)–pirid–2–ilo
1512.	6–(p–OCF_3–fenoxi)–pirid–2–ilo
1513.	6–(o–$COOCH_3$–fenoxi)–pirid–2–ilo
1514.	6–(m–$COOCH_3$–fenoxi)–pirid–2–ilo
1515.	6–(p–$COOCH_3$–fenoxi)–pirid–2–ilo
1516.	6–[o–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1517.	6–[m–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1518.	6–[p–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1519.	6–(2,3–dicianofenoxi)–pirid–2–ilo
1520.	6–(2,4–dicianofenoxi)–pirid–2–ilo
1521.	6–(2,5–dicianofenoxi)–pirid–2–ilo
1522.	6–(2,6–dicianofenoxi)–pirid–2–ilo
1523.	6–(3,4–dicianofenoxi)–pirid–2–ilo
1524.	6–(3,5–dicianofenoxi)–pirid–2–ilo
1525.	6–(2,3–difluorofenoxi)–pirid–2–ilo
1526.	6–(2,4–difluorofenoxi)–pirid–2–ilo
1527.	6–(2,5–difluorofenoxi)–pirid–2–ilo
1528.	6–(2,6–difluorofenoxi)–pirid–2–ilo
1529.	6–(3,4–difluorofenoxi)–pirid–2–ilo
1530.	6–(3,5–difluorofenoxi)–pirid–2–ilo
1531.	6–(2,3–diclorofenoxi)–pirid–2–ilo
1532.	6–(2,4–diclorofenoxi)–pirid–2–ilo
1533.	6–(2,5–diclorofenoxi)–pirid–2–ilo
1534.	6–(2,6–diclorofenoxi)–pirid–2–ilo
1535.	6–(3,4–diclorofenoxi)–pirid–2–ilo
1536.	6–(3,5–diclorofenoxi)–pirid–2–ilo

N.º	R^3–A–
1537.	6–(2,3–dibromofenoxi)–pirid–2–ilo
1538.	6–(2,4–dibromofenoxi)–pirid–2–ilo
1539.	6–(2,5–dibromofenoxi)–pirid–2–ilo
1540.	6–(2,6–dibromofenoxi)–pirid–2–ilo
1541.	6–(3,4–dibromofenoxi)–pirid–2–ilo
1542.	6–(3,5–dibromofenoxi)–pirid–2–ilo
1543.	6–(2,3–dimetilfenoxi)–pirid–2–ilo
1544.	6–(2,4–dimetilfenoxi)–pirid–2–ilo
1545.	6–(2,5–dimetilfenoxi)–pirid–2–ilo
1546.	6–(2,6–dimetilfenoxi)–pirid–2–ilo
1547.	6–(3,4–dimetilfenoxi)–pirid–2–ilo
1548.	6–(3,5–dimetilfenoxi)–pirid–2–ilo
1549.	6–[2,3–di(trifluorometil)fenoxi]–pirid–2–ilo
1550.	6–[2,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1551.	6–[2,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1552.	6–[2,6–di(trifluorometil)fenoxi]–pirid–2–ilo
1553.	6–[3,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1554.	6–[3,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1555.	6–(2,3–dimetoxifenoxi)–pirid–2–ilo
1556.	6–(2,4–dimetoxifenoxi)–pirid–2–ilo
1557.	6–(2,5–dimetoxifenoxi)–pirid–2–ilo
1558.	6–(2,6–dimetoxifenoxi)–pirid–2–ilo
1559.	6–(3,4–dimetoxifenoxi)–pirid–2–ilo
1560.	6–(3,5–dimetoxifenoxi)–pirid–2–ilo
1561.	4–(o–CN–fenil)–pirid–2–ilo
1562.	4–(m–CN–fenil)–pirid–2–ilo
1563.	4–(p–CN–fenil)–pirid–2–ilo
1564.	4–(o–NO_2–fenil)–pirid–2–ilo
1565.	4–(m–NO_2–fenil)–pirid–2–ilo
1566.	4–(p–NO_2–fenil)–pirid–2–ilo
1567.	4–(o–F–fenil)–pirid–2–ilo
1568.	4–(m–F–fenil)–pirid–2–ilo
1569.	4–(p–F–fenil)–pirid–2–ilo
1570.	4–(o–Cl–fenil)–pirid–2–ilo
1571.	4–(m–Cl–fenil)–pirid–2–ilo
1572.	4–(p–Cl–fenil)–pirid–2–ilo
1573.	4–(o–Br–fenil)–pirid–2–ilo
1574.	4–(m–Br–fenil)–pirid–2–ilo
1575.	4–(p–Br–fenil)–pirid–2–ilo
1576.	4–(o–CH_3–fenil)–pirid–2–ilo
1577.	4–(m–CH_3–fenil)–pirid–2–ilo
1578.	4–(p–CH_3–fenil)–pirid–2–ilo
1579.	4–(o–CF_3–fenil)–pirid–2–ilo
1580.	4–(m–CF_3–fenil)–pirid–2–ilo
1581.	4–(p–CF_3–fenil)–pirid–2–ilo
1582.	4–(o–CF_3–fenil)–pirid–2–ilo
1583.	4–(m–CF_3–fenil)–pirid–2–ilo
1584.	4–(p–CF_3–fenil)–pirid–2–ilo
1585.	4–(o–OCH_3–fenil)–pirid–2–ilo
1586.	4–(m–OCH_3–fenil)–pirid–2–ilo
1587.	4–(p–OCH_3–fenil)–pirid–2–ilo
1588.	4–(o–OCF_3–fenil)–pirid–2–ilo

N.º	R^3–A–
1589.	4–(m–OCF_3–fenil)–pirid–2–ilo
1590.	4–(p–OCF_3–fenil)–pirid–2–ilo
1591.	4–(o–$COOCH_3$–fenil)–pirid–2–ilo
1592.	4–(m–$COOCH_3$–fenil)–pirid–2–ilo
1593.	4–(p–$COOCH_3$–fenil)–pirid–2–ilo
1594.	4–[o–$N(CH_3)_2$–fenil]–pirid–2–ilo
1595.	4–[m–$N(CH_3)_2$–fenil]–pirid–2–ilo
1596.	4–[p–$N(CH_3)_2$–fenil]–pirid–2–ilo
1597.	4–(2,3–dicianofenil)–pirid–2–ilo
1598.	4–(2,4–dicianofenil)–pirid–2–ilo
1599.	4–(2,5–dicianofenil)–pirid–2–ilo
1600.	4–(2,6–dicianofenil)–pirid–2–ilo
1601.	4–(3,4–dicianofenil)–pirid–2–ilo
1602.	4–(3,5–dicianofenil)–pirid–2–ilo
1603.	4–(2,3–difluorofenil)–pirid–2–ilo
1604.	4–(2,4–difluorofenil)–pirid–2–ilo
1605.	4–(2,5–difluorofenil)–pirid–2–ilo
1606.	4–(2,6–difluorofenil)–pirid–2–ilo
1607.	4–(3,4–difluorofenil)–pirid–2–ilo
1608.	4–(3,5–difluorofenil)–pirid–2–ilo
1609.	4–(2,3–diclorofenil)–pirid–2–ilo
1610.	4–(2,4–diclorofenil)–pirid–2–ilo
1611.	4–(2,5–diclorofenil)–pirid–2–ilo
1612.	4–(2,6–diclorofenil)–pirid–2–ilo
1613.	4–(3,4–diclorofenil)–pirid–2–ilo
1614.	4–(3,5–diclorofenil)–pirid–2–ilo
1615.	4–(2,3–dibromofenil)–pirid–2–ilo
1616.	4–(2,4–dibromofenil)–pirid–2–ilo
1617.	4–(2,5–dibromofenil)–pirid–2–ilo
1618.	4–(2,6–dibromofenil)–pirid–2–ilo
1619.	4–(3,4–dibromofenil)–pirid–2–ilo
1620.	4–(3,5–dibromofenil)–pirid–2–ilo
1621.	4–(2,3–dimetilfenil)–pirid–2–ilo
1622.	4–(2,4–dimetilfenil)–pirid–2–ilo
1623.	4–(2,5–dimetilfenil)–pirid–2–ilo
1624.	4–(2,6–dimetilfenil)–pirid–2–ilo
1625.	4–(3,4–dimetilfenil)–pirid–2–ilo
1626.	4–(3,5–dimetilfenil)–pirid–2–ilo
1627.	4–[2,3–di(trifluorometil)fenil]–pirid–2–ilo
1628.	4–[2,4–di(trifluorometil)fenil]–pirid–2–ilo
1629.	4–[2,5–di(trifluorometil)fenil]–pirid–2–ilo
1630.	4–[2,6–di(trifluorometil)fenil]–pirid–2–ilo
1631.	4–[3,4–di(trifluorometil)fenil]–pirid–2–ilo
1632.	4–[3,5–di(trifluorometil)fenil]–pirid–2–ilo
1633.	4–(2,3–dimetoxifenil)–pirid–2–ilo
1634.	4–(2,4–dimetoxifenil)–pirid–2–ilo
1635.	4–(2,5–dimetoxifenil)–pirid–2–ilo
1636.	4–(2,6–dimetoxifenil)–pirid–2–ilo
1637.	4–(3,4–dimetoxifenil)–pirid–2–ilo
1638.	4–(3,5–dimetoxifenil)–pirid–2–ilo
1639.	4–(o–CN–fenoxi)–pirid–2–ilo
1640.	4–(m–CN–fenoxi)–pirid–2–ilo
1641.	4–(p–CN–fenoxi)–pirid–2–ilo
1642.	4–(o–NO_2–fenoxi)–pirid–2–ilo
1643.	4–(m–NO_2–fenoxi)–pirid–2–ilo
1644.	4–(p–NO_2–fenoxi)–pirid–2–ilo
1645.	4–(o–F–fenoxi)–pirid–2–ilo
1646.	4–(m–F–fenoxi)–pirid–2–ilo

N.º	R^3–A–
1647.	4–(p–F–fenoxi)–pirid–2–ilo
1648.	4–(o–Cl–fenoxi)–pirid–2–ilo
1649.	4–(m–Cl–fenoxi)–pirid–2–ilo
1650.	4–(p–Cl–fenoxi)–pirid–2–ilo
1651.	4–(o–Br–fenoxi)–pirid–2–ilo
1652.	4–(m–Br–fenoxi)–pirid–2–ilo
1653.	4–(p–Br–fenoxi)–pirid–2–ilo
1654.	4–(o–CH_3–fenoxi)–pirid–2–ilo
1655.	4–(m–CH_3–fenoxi)–pirid–2–ilo
1656.	4–(p–CH_3–fenoxi)–pirid–2–ilo
1657.	4–(o–CF_3–fenoxi)–pirid–2–ilo
1658.	4–(m–CF_3–fenoxi)–pirid–2–ilo
1659.	4–(p–CF_3–fenoxi)–pirid–2–ilo
1660.	4–(o–CF_3–fenoxi)–pirid–2–ilo
1661.	4–(m–CF_3–fenoxi)–pirid–2–ilo
1662.	4–(p–CF_3–fenoxi)–pirid–2–ilo
1663.	4–(o–OCH_3–fenoxi)–pirid–2–ilo
1664.	4–(m–OCH_3–fenoxi)–pirid–2–ilo
1665.	4–(p–OCH_3–fenoxi)–pirid–2–ilo
1666.	4–(o–OCF_3–fenoxi)–pirid–2–ilo
1667.	4–(m–OCF_3–fenoxi)–pirid–2–ilo
1668.	4–(p–OCF_3–fenoxi)–pirid–2–ilo
1669.	4–(o–$COOCH_3$–fenoxi)–pirid–2–ilo
1670.	4–(m–$COOCH_3$–fenoxi)–pirid–2–ilo
1671.	4–(p–$COOCH_3$–fenoxi)–pirid–2–ilo
1672.	4–[o–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1673.	4–[m–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1674.	4–[p–$N(CH_3)_2$–fenoxi]–pirid–2–ilo
1675.	4–(2,3–dicianofenoxi)–pirid–2–ilo
1676.	4–(2,4–dicianofenoxi)–pirid–2–ilo
1677.	4–(2,5–dicianofenoxi)–pirid–2–ilo
1678.	4–(2,6–dicianofenoxi)–pirid–2–ilo
1679.	4–(3,4–dicianofenoxi)–pirid–2–ilo
1680.	4–(3,5–dicianofenoxi)–pirid–2–ilo
1681.	4–(2,3–difluorofenoxi)–pirid–2–ilo
1682.	4–(2,4–difluorofenoxi)–pirid–2–ilo
1683.	4–(2,5–difluorofenoxi)–pirid–2–ilo
1684.	4–(2,6–difluorofenoxi)–pirid–2–ilo
1685.	4–(3,4–difluorofenoxi)–pirid–2–ilo
1686.	4–(3,5–difluorofenoxi)–pirid–2–ilo
1687.	4–(2,3–diclorofenoxi)–pirid–2–ilo
1688.	4–(2,4–diclorofenoxi)–pirid–2–ilo
1689.	4–(2,5–diclorofenoxi)–pirid–2–ilo
1690.	4–(2,6–diclorofenoxi)–pirid–2–ilo
1691.	4–(3,4–diclorofenoxi)–pirid–2–ilo
1692.	4–(3,5–diclorofenoxi)–pirid–2–ilo
1693.	4–(2,3–dibromofenoxi)–pirid–2–ilo
1694.	4–(2,4–dibromofenoxi)–pirid–2–ilo
1695.	4–(2,5–dibromofenoxi)–pirid–2–ilo
1696.	4–(2,6–dibromofenoxi)–pirid–2–ilo
1697.	4–(3,4–dibromofenoxi)–pirid–2–ilo
1698.	4–(3,5–dibromofenoxi)–pirid–2–ilo
1699.	4–(2,3–dimetilfenoxi)–pirid–2–ilo
1700.	4–(2,4–dimetilfenoxi)–pirid–2–ilo
1701.	4–(2,5–dimetilfenoxi)–pirid–2–ilo
1702.	4–(2,6–dimetilfenoxi)–pirid–2–ilo
1703.	4–(3,4–dimetilfenoxi)–pirid–2–ilo
1704.	4–(3,5–dimetilfenoxi)–pirid–2–ilo

N.º	R^3–A–
1705.	4–[2,3–di(trifluorometil)fenoxi]–pirid–2–ilo
1706.	4–[2,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1707.	4–[2,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1708.	4–[2,6–di(trifluorometil)fenoxi]–pirid–2–ilo
1709.	4–[3,4–di(trifluorometil)fenoxi]–pirid–2–ilo
1710.	4–[3,5–di(trifluorometil)fenoxi]–pirid–2–ilo
1711.	4–(2,3–dimetoxifenoxi)–pirid–2–ilo
1712.	4–(2,4–dimetoxifenoxi)–pirid–2–ilo
1713.	4–(2,5–dimetoxifenoxi)–pirid–2–ilo
1714.	4–(2,6–dimetoxifenoxi)–pirid–2–ilo
1715.	4–(3,4–dimetoxifenoxi)–pirid–2–ilo
1716.	4–(3,5–dimetoxifenoxi)–pirid–2–ilo
1717.	6–(o–CN–fenil)–pirid–4–ilo
1718.	6–(m–CN–fenil)–pirid–4–ilo
1719.	6–(p–CN–fenil)–pirid–4–ilo
1720.	6–(o–NO_2–fenil)–pirid–4–ilo
1721.	6–(m–NO_2–fenil)–pirid–4–ilo
1722.	6–(p–NO_2–fenil)–pirid–4–ilo
1723.	6–(o–F–fenil)–pirid–4–ilo
1724.	6–(m–F–fenil)–pirid–4–ilo
1725.	6–(p–F–fenil)–pirid–4–ilo
1726.	6–(o–Cl–fenil)–pirid–4–ilo
1727.	6–(m–Cl–fenil)–pirid–4–ilo
1728.	6–(p–Cl–fenil)–pirid–4–ilo
1729.	6–(o–Br–fenil)–pirid–4–ilo
1730.	6–(m–Br–fenil)–pirid–4–ilo
1731.	6–(p–Br–fenil)–pirid–4–ilo
1732.	6–(o–CH_3–fenil)–pirid–4–ilo
1733.	6–(m–CH_3–fenil)–pirid–4–ilo
1734.	6–(p–CH_3–fenil)–pirid–4–ilo
1735.	6–(o–CF_3–fenil)–pirid–4–ilo
1736.	6–(m–CF_3–fenil)–pirid–4–ilo
1737.	6–(p–CF_3–fenil)–pirid–4–ilo
1738.	6–(o–CF_3–fenil)–pirid–4–ilo
1739.	6–(m–CF_3–fenil)–pirid–4–ilo
1740.	6–(p–CF_3–fenil)–pirid–4–ilo
1741.	6–(o–OCH_3–fenil)–pirid–4–ilo
1742.	6–(m–OCH_3–fenil)–pirid–4–ilo
1743.	6–(p–OCH_3–fenil)–pirid–4–ilo
1744.	6–(o–OCF_3–fenil)–pirid–4–ilo
1745.	6–(m–OCF_3–fenil)–pirid–4–ilo
1746.	6–(p–OCF_3–fenil)–pirid–4–ilo
1747.	6–(o–$COOCH_3$–fenil)–pirid–4–ilo
1748.	6–(m–$COOCH_3$–fenil)–pirid–4–ilo
1749.	6–(p–$COOCH_3$–fenil)–pirid–4–ilo
1750.	6–[o–$N(CH_3)_2$–fenil]–pirid–4–ilo
1751.	6–[m–$N(CH_3)_2$–fenil]–pirid–4–ilo
1752.	6–[p–$N(CH_3)_2$–fenil]–pirid–4–ilo
1753.	6–(2,3–dicianofenil)–pirid–4–ilo
1754.	6–(2,4–dicianofenil)–pirid–4–ilo
1755.	6–(2,5–dicianofenil)–pirid–4–ilo
1756.	6–(2,6–dicianofenil)–pirid–4–ilo

N.º	R^3–A–
1757.	6–(3,4–dicianofenil)–pirid–4–ilo
1758.	6–(3,5–dicianofenil)–pirid–4–ilo
1759.	6–(2,3–difluorofenil)–pirid–4–ilo
1760.	6–(2,4–difluorofenil)–pirid–4–ilo
1761.	6–(2,5–difluorofenil)–pirid–4–ilo
1762.	6–(2,6–difluorofenil)–pirid–4–ilo
1763.	6–(3,4–difluorofenil)–pirid–4–ilo
1764.	6–(3,5–difluorofenil)–pirid–4–ilo
1765.	6–(2,3–diclorofenil)–pirid–4–ilo
1766.	6–(2,4–diclorofenil)–pirid–4–ilo
1767.	6–(2,5–diclorofenil)–pirid–4–ilo
1768.	6–(2,6–diclorofenil)–pirid–4–ilo
1769.	6–(3,4–diclorofenil)–pirid–4–ilo
1770.	6–(3,5–diclorofenil)–pirid–4–ilo
1771.	6–(2,3–dibromofenil)–pirid–4–ilo
1772.	6–(2,4–dibromofenil)–pirid–4–ilo
1773.	6–(2,5–dibromofenil)–pirid–4–ilo
1774.	6–(2,6–dibromofenil)–pirid–4–ilo
1775.	6–(3,4–dibromofenil)–pirid–4–ilo
1776.	6–(3,5–dibromofenil)–pirid–4–ilo
1777.	6–(2,3–dimetilfenil)–pirid–4–ilo
1778.	6–(2,4–dimetilfenil)–pirid–4–ilo
1779.	6–(2,5–dimetilfenil)–pirid–4–ilo
1780.	6–(2,6–dimetilfenil)–pirid–4–ilo
1781.	6–(3,4–dimetilfenil)–pirid–4–ilo
1782.	6–(3,5–dimetilfenil)–pirid–4–ilo
1783.	6–[2,3–di(trifluorometil)fenil]–pirid–4–ilo
1784.	6–[2,4–di(trifluorometil)fenil]–pirid–4–ilo
1785.	6–[2,5–di(trifluorometil)fenil]–pirid–4–ilo
1786.	6–[2,6–di(trifluorometil)fenil]–pirid–4–ilo
1787.	6–[3,4–di(trifluorometil)fenil]–pirid–4–ilo
1788.	6–[3,5–di(trifluorometil)fenil]–pirid–4–ilo
1789.	6–(2,3–dimetoxifenil)–pirid–4–ilo
1790.	6–(2,4–dimetoxifenil)–pirid–4–ilo
1791.	6–(2,5–dimetoxifenil)–pirid–4–ilo
1792.	6–(2,6–dimetoxifenil)–pirid–4–ilo
1793.	6–(3,4–dimetoxifenil)–pirid–4–ilo
1794.	6–(3,5–dimetoxifenil)–pirid–4–ilo
1795.	6–(o–CN–fenoxi)–pirid–4–ilo
1796.	6–(m–CN–fenoxi)–pirid–4–ilo
1797.	6–(p–CN–fenoxi)–pirid–4–ilo
1798.	6–(o–NO_2–fenoxi)–pirid–4–ilo
1799.	6–(m–NO_2–fenoxi)–pirid–4–ilo
1800.	6–(p–NO_2–fenoxi)–pirid–4–ilo
1801.	6–(o–F–fenoxi)–pirid–4–ilo
1802.	6–(m–F–fenoxi)–pirid–4–ilo
1803.	6–(p–F–fenoxi)–pirid–4–ilo
1804.	6–(o–Cl–fenoxi)–pirid–4–ilo
1805.	6–(m–Cl–fenoxi)–pirid–4–ilo
1806.	6–(p–Cl–fenoxi)–pirid–4–ilo
1807.	6–(o–Br–fenoxi)–pirid–4–ilo
1808.	6–(m–Br–fenoxi)–pirid–4–ilo
1809.	6–(p–Br–fenoxi)–pirid–4–ilo
1810.	6–(o–CH_3–fenoxi)–pirid–4–ilo
1811.	6–(m–CH_3–fenoxi)–pirid–4–ilo
1812.	6–(p–CH_3–fenoxi)–pirid–4–ilo
1813.	6–(o–CF_3–fenoxi)–pirid–4–ilo
1814.	6–(m–CF_3–fenoxi)–pirid–4–ilo

N.º	R^3–A–
1815.	6–(p–CF_3–fenoxi)–pirid–4–ilo
1816.	6–(o–CF_3–fenoxi)–pirid–4–ilo
1817.	6–(m–CF_3–fenoxi)–pirid–4–ilo
1818.	6–(p–CF_3–fenoxi)–pirid–4–ilo
1819.	6–(o–OCH_3–fenoxi)–pirid–4–ilo
1820.	6–(m–OCH_3–fenoxi)–pirid–4–ilo
1821.	6–(p–OCH_3–fenoxi)–pirid–4–ilo
1822.	6–(o–OCF_3–fenoxi)–pirid–4–ilo
1823.	6–(m–OCF_3–fenoxi)–pirid–4–ilo
1824.	6–(p–OCF_3–fenoxi)–pirid–4–ilo
1825.	6–(o–$COOCH_3$–fenoxi)–pirid–4–ilo
1826.	6–(m–$COOCH_3$–fenoxi)–pirid–4–ilo
1827.	6–(p–$COOCH_3$–fenoxi)–pirid–4–ilo
1828.	6–[o–$N(CH_3)_2$–fenoxi]–pirid–4–ilo
1829.	6–[m–$N(CH_3)_2$–fenoxi]–pirid–4–ilo
1830.	6–[p–$N(CH_3)_2$–fenoxi]–pirid–4–ilo
1831.	6–(2,3–dicianofenoxi)–pirid–4–ilo
1832.	6–(2,4–dicianofenoxi)–pirid–4–ilo
1833.	6–(2,5–dicianofenoxi)–pirid–4–ilo
1834.	6–(2,6–dicianofenoxi)–pirid–4–ilo
1835.	6–(3,4–dicianofenoxi)–pirid–4–ilo
1836.	6–(3,5–dicianofenoxi)–pirid–4–ilo
1837.	6–(2,3–difluorofenoxi)–pirid–4–ilo
1838.	6–(2,4–difluorofenoxi)–pirid–4–ilo
1839.	6–(2,5–difluorofenoxi)–pirid–4–ilo
1840.	6–(2,6–difluorofenoxi)–pirid–4–ilo
1841.	6–(3,4–difluorofenoxi)–pirid–4–ilo
1842.	6–(3,5–difluorofenoxi)–pirid–4–ilo
1843.	6–(2,3–diclorofenoxi)–pirid–4–ilo
1844.	6–(2,4–diclorofenoxi)–pirid–4–ilo
1845.	6–(2,5–diclorofenoxi)–pirid–4–ilo
1846.	6–(2,6–diclorofenoxi)–pirid–4–ilo
1847.	6–(3,4–diclorofenoxi)–pirid–4–ilo
1848.	6–(3,5–diclorofenoxi)–pirid–4–ilo
1849.	6–(2,3–dibromofenoxi)–pirid–4–ilo
1850.	6–(2,4–dibromofenoxi)–pirid–4–ilo
1851.	6–(2,5–dibromofenoxi)–pirid–4–ilo
1852.	6–(2,6–dibromofenoxi)–pirid–4–ilo
1853.	6–(3,4–dibromofenoxi)–pirid–4–ilo
1854.	6–(3,5–dibromofenoxi)–pirid–4–ilo
1855.	6–(2,3–dimetilfenoxi)–pirid–4–ilo
1856.	6–(2,4–dimetilfenoxi)–pirid–4–ilo
1857.	6–(2,5–dimetilfenoxi)–pirid–4–ilo
1858.	6–(2,6–dimetilfenoxi)–pirid–4–ilo
1859.	6–(3,4–dimetilfenoxi)–pirid–4–ilo
1860.	6–(3,5–dimetilfenoxi)–pirid–4–ilo
1861.	6–[2,3–di(trifluorometil)fenoxi]–pirid–4–ilo
1862.	6–[2,4–di(trifluorometil)fenoxi]–pirid–4–ilo
1863.	6–[2,5–di(trifluorometil)fenoxi]–pirid–4–ilo
1864.	6–[2,6–di(trifluorometil)fenoxi]–pirid–4–ilo
1865.	6–[3,4–di(trifluorometil)fenoxi]–pirid–4–ilo
1866.	6–[3,5–di(trifluorometil)fenoxi]–pirid–4–ilo

N.º	R^3–A–
1867.	6–(2,3–dimetoxifenoxi)–pirid–4–ilo
1868.	6–(2,4–dimetoxifenoxi)–pirid–4–ilo
1869.	6–(2,5–dimetoxifenoxi)–pirid–4–ilo
1870.	6–(2,6–dimetoxifenoxi)–pirid–4–ilo
1871.	6–(3,4–dimetoxifenoxi)–pirid–4–ilo
1872.	6–(3,5–dimetoxifenoxi)–pirid–4–ilo
1873.	6–(o–CN–fenil)–piridazin–3–ilo
1874.	6–(m–CN–fenil)–piridazin–3–ilo
1875.	6–(p–CN–fenil)–piridazin–3–ilo
1876.	6–(o–NO_2–fenil)–piridazin–3–ilo
1877.	6–(m–NO_2–fenil)–piridazin–3–ilo
1878.	6–(p–NO_2–fenil)–piridazin–3–ilo
1879.	6–(o–F–fenil)–piridazin–3–ilo
1880.	6–(m–F–fenil)–piridazin–3–ilo
1881.	6–(p–F–fenil)–piridazin–3–ilo
1882.	6–(o–Cl–fenil)–piridazin–3–ilo
1883.	6–(m–Cl–fenil)–piridazin–3–ilo
1884.	6–(p–Cl–fenil)–piridazin–3–ilo
1885.	6–(o–Br–fenil)–piridazin–3–ilo
1886.	6–(m–Br–fenil)–piridazin–3–ilo
1887.	6–(p–Br–fenil)–piridazin–3–ilo
1888.	6–(o–CH_3–fenil)–piridazin–3–ilo
1889.	6–(m–CH_3–fenil)–piridazin–3–ilo
1890.	6–(p–CH_3–fenil)–piridazin–3–ilo
1891.	6–(o–CF_3–fenil)–piridazin–3–ilo
1892.	6–(m–CF_3–fenil)–piridazin–3–ilo
1893.	6–(p–CF_3–fenil)–piridazin–3–ilo
1894.	6–(o–CF_3–fenil)–piridazin–3–ilo
1895.	6–(m–CF_3–fenil)–piridazin–3–ilo
1896.	6–(p–CF_3–fenil)–piridazin–3–ilo
1897.	6–(o–OCH_3–fenil)–piridazin–3–ilo
1898.	6–(m–OCH_3–fenil)–piridazin–3–ilo
1899.	6–(p–OCH_3–fenil)–piridazin–3–ilo
1900.	6–(o–OCF_3–fenil)–piridazin–3–ilo
1901.	6–(m–OCF_3–fenil)–piridazin–3–ilo
1902.	6–(p–OCF_3–fenil)–piridazin–3–ilo
1903.	6–(o–$COOCH_3$–fenil)–piridazin–3–ilo
1904.	6–(m–$COOCH_3$–fenil)–piridazin–3–ilo
1905.	6–(p–$COOCH_3$–fenil)–piridazin–3–ilo
1906.	6–[o–$N(CH_3)_2$–fenil]–piridazin–3–ilo
1907.	6–[m–$N(CH_3)_2$–fenil]–piridazin–3–ilo
1908.	6–[p–$N(CH_3)_2$–fenil]–piridazin–3–ilo
1909.	6–(2,3–dicianofenil)–piridazin–3–ilo
1910.	6–(2,4–dicianofenil)–piridazin–3–ilo
1911.	6–(2,5–dicianofenil)–piridazin–3–ilo
1912.	6–(2,6–dicianofenil)–piridazin–3–ilo
1913.	6–(3,4–dicianofenil)–piridazin–3–ilo
1914.	6–(3,5–dicianofenil)–piridazin–3–ilo
1915.	6–(2,3–difluorofenil)–piridazin–3–ilo
1916.	6–(2,4–difluorofenil)–piridazin–3–ilo
1917.	6–(2,5–difluorofenil)–piridazin–3–ilo
1918.	6–(2,6–difluorofenil)–piridazin–3–ilo
1919.	6–(3,4–difluorofenil)–piridazin–3–ilo
1920.	6–(3,5–difluorofenil)–piridazin–3–ilo
1921.	6–(2,3–diclorofenil)–piridazin–3–ilo
1922.	6–(2,4–diclorofenil)–piridazin–3–ilo
1923.	6–(2,5–diclorofenil)–piridazin–3–ilo
1924.	6–(2,6–diclorofenil)–piridazin–3–ilo

N.º	R^3–A–
1925.	6–(3,4–diclorofenil)–piridazin–3–ilo
1926.	6–(3,5–diclorofenil)–piridazin–3–ilo
1927.	6–(2,3–dibromofenil)–piridazin–3–ilo
1928.	6–(2,4–dibromofenil)–piridazin–3–ilo
1929.	6–(2,5–dibromofenil)–piridazin–3–ilo
1930.	6–(2,6–dibromofenil)–piridazin–3–ilo
1931.	6–(3,4–dibromofenil)–piridazin–3–ilo
1932.	6–(3,5–dibromofenil)–piridazin–3–ilo
1933.	6–(2,3–dimetilfenil)–piridazin–3–ilo
1934.	6–(2,4–dimetilfenil)–piridazin–3–ilo
1935.	6–(2,5–dimetilfenil)–piridazin–3–ilo
1936.	6–(2,6–dimetilfenil)–piridazin–3–ilo
1937.	6–(3,4–dimetilfenil)–piridazin–3–ilo
1938.	6–(3,5–dimetilfenil)–piridazin–3–ilo
1939.	6–[2,3–di(trifluorometil)fenil]–piridazin–3–ilo
1940.	6–[2,4–di(trifluorometil)fenil]–piridazin–3–ilo
1941.	6–[2,5–di(trifluorometil)fenil]–piridazin–3–ilo
1942.	6–[2,6–di(trifluorometil)fenil]–piridazin–3–ilo
1943.	6–[3,4–di(trifluorometil)fenil]–piridazin–3–ilo
1944.	6–[3,5–di(trifluorometil)fenil]–piridazin–3–ilo
1945.	6–(2,3–dimetoxifenil)–piridazin–3–ilo
1946.	6–(2,4–dimetoxifenil)–piridazin–3–ilo
1947.	6–(2,5–dimetoxifenil)–piridazin–3–ilo
1948.	6–(2,6–dimetoxifenil)–piridazin–3–ilo
1949.	6–(3,4–dimetoxifenil)–piridazin–3–ilo
1950.	6–(3,5–dimetoxifenil)–piridazin–3–ilo
1951.	6–(o–CN–fenoxi)–piridazin–3–ilo
1952.	6–(m–CN–fenoxi)–piridazin–3–ilo
1953.	6–(p–CN–fenoxi)–piridazin–3–ilo
1954.	6–(o–NO_2–fenoxi)–piridazin–3–ilo
1955.	6–(m–NO_2–fenoxi)–piridazin–3–ilo
1956.	6–(p–NO_2–fenoxi)–piridazin–3–ilo
1957.	6–(o–F–fenoxi)–piridazin–3–ilo
1958.	6–(m–F–fenoxi)–piridazin–3–ilo
1959.	6–(p–F–fenoxi)–piridazin–3–ilo
1960.	6–(o–Cl–fenoxi)–piridazin–3–ilo
1961.	6–(m–Cl–fenoxi)–piridazin–3–ilo
1962.	6–(p–Cl–fenoxi)–piridazin–3–ilo
1963.	6–(o–Br–fenoxi)–piridazin–3–ilo
1964.	6–(m–Br–fenoxi)–piridazin–3–ilo
1965.	6–(p–Br–fenoxi)–piridazin–3–ilo
1966.	6–(o–CH_3–fenoxi)–piridazin–3–ilo
1967.	6–(m–CH_3–fenoxi)–piridazin–3–ilo
1968.	6–(p–CH_3–fenoxi)–piridazin–3–ilo
1969.	6–(o–CF_3–fenoxi)–piridazin–3–ilo
1970.	6–(m–CF_3–fenoxi)–piridazin–3–ilo
1971.	6–(p–CF_3–fenoxi)–piridazin–3–ilo
1972.	6–(o–CF_3–fenoxi)–piridazin–3–ilo
1973.	6–(m–CF_3–fenoxi)–piridazin–3–ilo
1974.	6–(p–CF_3–fenoxi)–piridazin–3–ilo
1975.	6–(o–OCH_3–fenoxi)–piridazin–3–ilo
1976.	6–(m–OCH_3–fenoxi)–piridazin–3–ilo

N.º	R^3–A–
1977.	6–(p–OCH_3–fenoxi)–piridazin–3–ilo
1978.	6–(o–OCF_3–fenoxi)–piridazin–3–ilo
1979.	6–(m–OCF_3–fenoxi)–piridazin–3–ilo
1980.	6–(p–OCF_3–fenoxi)–piridazin–3–ilo
1981.	6–(o–$COOCH_3$–fenoxi)–piridazin–3–ilo
1982.	6–(m–$COOCH_3$–fenoxi)–piridazin–3–ilo
1983.	6–(p–$COOCH_3$–fenoxi)–piridazin–3–ilo
1984.	6–[o–$N(CH_3)_2$–fenoxi]–piridazin–3–ilo
1985.	6–[m–$N(CH_3)_2$–fenoxi]–piridazin–3–ilo
1986.	6–[p–$N(CH_3)_2$–fenoxi]–piridazin–3–ilo
1987.	6–(2,3–dicianofenoxi)–piridazin–3–ilo
1988.	6–(2,4–dicianofenoxi)–piridazin–3–ilo
1989.	6–(2,5–dicianofenoxi)–piridazin–3–ilo
1990.	6–(2,6–dicianofenoxi)–piridazin–3–ilo
1991.	6–(3,4–dicianofenoxi)–piridazin–3–ilo
1992.	6–(3,5–dicianofenoxi)–piridazin–3–ilo
1993.	6–(2,3–difluorofenoxi)–piridazin–3–ilo
1994.	6–(2,4–difluorofenoxi)–piridazin–3–ilo
1995.	6–(2,5–difluorofenoxi)–piridazin–3–ilo
1996.	6–(2,6–difluorofenoxi)–piridazin–3–ilo
1997.	6–(3,4–difluorofenoxi)–piridazin–3–ilo
1998.	6–(3,5–difluorofenoxi)–piridazin–3–ilo
1999.	6–(2,3–diclorofenoxi)–piridazin–3–ilo
2000.	6–(2,4–diclorofenoxi)–piridazin–3–ilo
2001.	6–(2,5–diclorofenoxi)–piridazin–3–ilo
2002.	6–(2,6–diclorofenoxi)–piridazin–3–ilo
2003.	6–(3,4–diclorofenoxi)–piridazin–3–ilo
2004.	6–(3,5–diclorofenoxi)–piridazin–3–ilo
2005.	6–(2,3–dibromofenoxi)–piridazin–3–ilo
2006.	6–(2,4–dibromofenoxi)–piridazin–3–ilo
2007.	6–(2,5–dibromofenoxi)–piridazin–3–ilo
2008.	6–(2,6–dibromofenoxi)–piridazin–3–ilo
2009.	6–(3,4–dibromofenoxi)–piridazin–3–ilo
2010.	6–(3,5–dibromofenoxi)–piridazin–3–ilo
2011.	6–(2,3–dimetilfenoxi)–piridazin–3–ilo
2012.	6–(2,4–dimetilfenoxi)–piridazin–3–ilo
2013.	6–(2,5–dimetilfenoxi)–piridazin–3–ilo
2014.	6–(2,6–dimetilfenoxi)–piridazin–3–ilo
2015.	6–(3,4–dimetilfenoxi)–piridazin–3–ilo
2016.	6–(3,5–dimetilfenoxi)–piridazin–3–ilo
2017.	6–[2,3–di(trifluorometil)fenoxi]–piridazin–3–ilo
2018.	6–[2,4–di(trifluorometil)fenoxi]–piridazin–3–ilo
2019.	6–[2,5–di(trifluorometil)fenoxi]–piridazin–3–ilo
2020.	6–[2,6–di(trifluorometil)fenoxi]–piridazin–3–ilo
2021.	6–[3,4–di(trifluorometil)fenoxi]–piridazin–3–ilo
2022.	6–[3,5–di(trifluorometil)fenoxi]–piridazin–3–ilo
2023.	6–(2,3–dimetoxifenoxi)–piridazin–3–ilo
2024.	6–(2,4–dimetoxifenoxi)–piridazin–3–ilo
2025.	6–(2,5–dimetoxifenoxi)–piridazin–3–ilo
2026.	6–(2,6–dimetoxifenoxi)–piridazin–3–ilo
2027.	6–(3,4–dimetoxifenoxi)–piridazin–3–ilo
2028.	6–(3,5–dimetoxifenoxi)–piridazin–3–ilo

N.º	R^3–A–
2029.	4–(o–CN–fenil)–oxazol–2–ilo
2030.	4–(m–CN–fenil)–oxazol–2–ilo
2031.	4–(p–CN–fenil)–oxazol–2–ilo
2032.	4–(o–NO_2–fenil)–oxazol–2–ilo
2033.	4–(m–NO_2–fenil)–oxazol–2–ilo
2034.	4–(p–NO_2–fenil)–oxazol–2–ilo
2035.	4–(o–F–fenil)–oxazol–2–ilo
2036.	4–(m–F–fenil)–oxazol–2–ilo
2037.	4–(p–F–fenil)–oxazol–2–ilo
2038.	4–(o–Cl–fenil)–oxazol–2–ilo
2039.	4–(m–Cl–fenil)–oxazol–2–ilo
2040.	4–(p–Cl–fenil)–oxazol–2–ilo
2041.	4–(o–Br–fenil)–oxazol–2–ilo
2042.	4–(m–Br–fenil)–oxazol–2–ilo
2043.	4–(p–Br–fenil)–oxazol–2–ilo
2044.	4–(o–CH_3–fenil)–oxazol–2–ilo
2045.	4–(m–CH_3–fenil)–oxazol–2–ilo
2046.	4–(p–CH_3–fenil)–oxazol–2–ilo
2047.	4–(o–CF_3–fenil)–oxazol–2–ilo
2048.	4–(m–CF_3–fenil)–oxazol–2–ilo
2049.	4–(p–CF_3–fenil)–oxazol–2–ilo
2050.	4–(o–CF_3–fenil)–oxazol–2–ilo
2051.	4–(m–CF_3–fenil)–oxazol–2–ilo
2052.	4–(p–CF_3–fenil)–oxazol–2–ilo
2053.	4–(o–OCH_3–fenil)–oxazol–2–ilo
2054.	4–(m–OCH_3–fenil)–oxazol–2–ilo
2055.	4–(p–OCH_3–fenil)–oxazol–2–ilo
2056.	4–(o–OCF_3–fenil)–oxazol–2–ilo
2057.	4–(m–OCF_3–fenil)–oxazol–2–ilo
2058.	4–(p–OCF_3–fenil)–oxazol–2–ilo
2059.	4–(o–$COOCH_3$–fenil)–oxazol–2–ilo
2060.	4–(m–$COOCH_3$–fenil)–oxazol–2–ilo
2061.	4–(p–$COOCH_3$–fenil)–oxazol–2–ilo
2062.	4–[o–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2063.	4–[m–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2064.	4–[p–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2065.	4–(2,3–dicianofenil)–oxazol–2–ilo
2066.	4–(2,4–dicianofenil)–oxazol–2–ilo
2067.	4–(2,5–dicianofenil)–oxazol–2–ilo
2068.	4–(2,6–dicianofenil)–oxazol–2–ilo
2069.	4–(3,4–dicianofenil)–oxazol–2–ilo
2070.	4–(3,5–dicianofenil)–oxazol–2–ilo
2071.	4–(2,3–difluorofenil)–oxazol–2–ilo
2072.	4–(2,4–difluorofenil)–oxazol–2–ilo
2073.	4–(2,5–difluorofenil)–oxazol–2–ilo
2074.	4–(2,6–difluorofenil)–oxazol–2–ilo
2075.	4–(3,4–difluorofenil)–oxazol–2–ilo
2076.	4–(3,5–difluorofenil)–oxazol–2–ilo
2077.	4–(2,3–diclorofenil)–oxazol–2–ilo
2078.	4–(2,4–diclorofenil)–oxazol–2–ilo
2079.	4–(2,5–diclorofenil)–oxazol–2–ilo
2080.	4–(2,6–diclorofenil)–oxazol–2–ilo
2081.	4–(3,4–diclorofenil)–oxazol–2–ilo
2082.	4–(3,5–diclorofenil)–oxazol–2–ilo
2083.	4–(2,3–dibromofenil)–oxazol–2–ilo
2084.	4–(2,4–dibromofenil)–oxazol–2–ilo
2085.	4–(2,5–dibromofenil)–oxazol–2–ilo
2086.	4–(2,6–dibromofenil)–oxazol–2–ilo

N.º	R^3–A–
2087.	4–(3,4–dibromofenil)–oxazol–2–ilo
2088.	4–(3,5–dibromofenil)–oxazol–2–ilo
2089.	4–(2,3–dimetilfenil)–oxazol–2–ilo
2090.	4–(2,4–dimetilfenil)–oxazol–2–ilo
2091.	4–(2,5–dimetilfenil)–oxazol–2–ilo
2092.	4–(2,6–dimetilfenil)–oxazol–2–ilo
2093.	4–(3,4–dimetilfenil)–oxazol–2–ilo
2094.	4–(3,5–dimetilfenil)–oxazol–2–ilo
2095.	4–[2,3–di(trifluorometil)fenil]–oxazol–2–ilo
2096.	4–[2,4–di(trifluorometil)fenil]–oxazol–2–ilo
2097.	4–[2,5–di(trifluorometil)fenil]–oxazol–2–ilo
2098.	4–[2,6–di(trifluorometil)fenil]–oxazol–2–ilo
2099.	4–[3,4–di(trifluorometil)fenil]–oxazol–2–ilo
2100.	4–[3,5–di(trifluorometil)fenil]–oxazol–2–ilo
2101.	4–(2,3–dimetoxifenil)–oxazol–2–ilo
2102.	4–(2,4–dimetoxifenil)–oxazol–2–ilo
2103.	4–(2,5–dimetoxifenil)–oxazol–2–ilo
2104.	4–(2,6–dimetoxifenil)–oxazol–2–ilo
2105.	4–(3,4–dimetoxifenil)–oxazol–2–ilo
2106.	4–(3,5–dimetoxifenil)–oxazol–2–ilo
2107.	4–(o–CN–fenoxi)–oxazol–2–ilo
2108.	4–(m–CN–fenoxi)–oxazol–2–ilo
2109.	4–(p–CN–fenoxi)–oxazol–2–ilo
2110.	4–(o–NO_2–fenoxi)–oxazol–2–ilo
2111.	4–(m–NO_2–fenoxi)–oxazol–2–ilo
2112.	4–(p–NO_2–fenoxi)–oxazol–2–ilo
2113.	4–(o–F–fenoxi)–oxazol–2–ilo
2114.	4–(m–F–fenoxi)–oxazol–2–ilo
2115.	4–(p–F–fenoxi)–oxazol–2–ilo
2116.	4–(o–Cl–fenoxi)–oxazol–2–ilo
2117.	4–(m–Cl–fenoxi)–oxazol–2–ilo
2118.	4–(p–Cl–fenoxi)–oxazol–2–ilo
2119.	4–(o–Br–fenoxi)–oxazol–2–ilo
2120.	4–(m–Br–fenoxi)–oxazol–2–ilo
2121.	4–(p–Br–fenoxi)–oxazol–2–ilo
2122.	4–(o–CH_3–fenoxi)–oxazol–2–ilo
2123.	4–(m–CH_3–fenoxi)–oxazol–2–ilo
2124.	4–(p–CH_3–fenoxi)–oxazol–2–ilo
2125.	4–(o–CF_3–fenoxi)–oxazol–2–ilo
2126.	4–(m–CF_3–fenoxi)–oxazol–2–ilo
2127.	4–(p–CF_3–fenoxi)–oxazol–2–ilo
2128.	4–(o–CF_3–fenoxi)–oxazol–2–ilo
2129.	4–(m–CF_3–fenoxi)–oxazol–2–ilo
2130.	4–(p–CF_3–fenoxi)–oxazol–2–ilo
2131.	4–(o–OCH_3–fenoxi)–oxazol–2–ilo
2132.	4–(m–OCH_3–fenoxi)–oxazol–2–ilo
2133.	4–(p–OCH_3–fenoxi)–oxazol–2–ilo
2134.	4–(o–OCF_3–fenoxi)–oxazol–2–ilo
2135.	4–(m–OCF_3–fenoxi)–oxazol–2–ilo
2136.	4–(p–OCF_3–fenoxi)–oxazol–2–ilo
2137.	4–(o–$COOCH_3$–fenoxi)–oxazol–2–ilo
2138.	4–(m–$COOCH_3$–fenoxi)–oxazol–2–ilo

N.º	R^3–A–
2139.	4–(p–$COOCH_3$–fenoxi)–oxazol–2–ilo
2140.	4–[o–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2141.	4–[m–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2142.	4–[p–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2143.	4–(2,3–dicianofenoxi)–oxazol–2–ilo
2144.	4–(2,4–dicianofenoxi)–oxazol–2–ilo
2145.	4–(2,5–dicianofenoxi)–oxazol–2–ilo
2146.	4–(2,6–dicianofenoxi)–oxazol–2–ilo
2147.	4–(3,4–dicianofenoxi)–oxazol–2–ilo
2148.	4–(3,5–dicianofenoxi)–oxazol–2–ilo
2149.	4–(2,3–difluorofenoxi)–oxazol–2–ilo
2150.	4–(2,4–difluorofenoxi)–oxazol–2–ilo
2151.	4–(2,5–difluorofenoxi)–oxazol–2–ilo
2152.	4–(2,6–difluorofenoxi)–oxazol–2–ilo
2153.	4–(3,4–difluorofenoxi)–oxazol–2–ilo
2154.	4–(3,5–difluorofenoxi)–oxazol–2–ilo
2155.	4–(2,3–diclorofenoxi)–oxazol–2–ilo
2156.	4–(2,4–diclorofenoxi)–oxazol–2–ilo
2157.	4–(2,5–diclorofenoxi)–oxazol–2–ilo
2158.	4–(2,6–diclorofenoxi)–oxazol–2–ilo
2159.	4–(3,4–diclorofenoxi)–oxazol–2–ilo
2160.	4–(3,5–diclorofenoxi)–oxazol–2–ilo
2161.	4–(2,3–dibromofenoxi)–oxazol–2–ilo
2162.	4–(2,4–dibromofenoxi)–oxazol–2–ilo
2163.	4–(2,5–dibromofenoxi)–oxazol–2–ilo
2164.	4–(2,6–dibromofenoxi)–oxazol–2–ilo
2165.	4–(3,4–dibromofenoxi)–oxazol–2–ilo
2166.	4–(3,5–dibromofenoxi)–oxazol–2–ilo
2167.	4–(2,3–dimetilfenoxi)–oxazol–2–ilo
2168.	4–(2,4–dimetilfenoxi)–oxazol–2–ilo
2169.	4–(2,5–dimetilfenoxi)–oxazol–2–ilo
2170.	4–(2,6–dimetilfenoxi)–oxazol–2–ilo
2171.	4–(3,4–dimetilfenoxi)–oxazol–2–ilo
2172.	4–(3,5–dimetilfenoxi)–oxazol–2–ilo
2173.	4–[2,3–di(trifluorometil)fenoxi]–oxazol–2–ilo
2174.	4–[2,4–di(trifluorometil)fenoxi]–oxazol–2–ilo
2175.	4–[2,5–di(trifluorometil)fenoxi]–oxazol–2–ilo
2176.	4–[2,6–di(trifluorometil)fenoxi]–oxazol–2–ilo
2177.	4–[3,4–di(trifluorometil)fenoxi]–oxazol–2–ilo
2178.	4–[3,5–di(trifluorometil)fenoxi]–oxazol–2–ilo
2179.	4–(2,3–dimetoxifenoxi)–oxazol–2–ilo
2180.	4–(2,4–dimetoxifenoxi)–oxazol–2–ilo
2181.	4–(2,5–dimetoxifenoxi)–oxazol–2–ilo
2182.	4–(2,6–dimetoxifenoxi)–oxazol–2–ilo
2183.	4–(3,4–dimetoxifenoxi)–oxazol–2–ilo
2184.	4–(3,5–dimetoxifenoxi)–oxazol–2–ilo
2185.	4–(o–CN–fenil)–tiazol–2–ilo
2186.	4–(m–CN–fenil)–tiazol–2–ilo
2187.	4–(p–CN–fenil)–tiazol–2–ilo
2188.	4–(o–NO_2–fenil)–tiazol–2–ilo
2189.	4–(m–NO_2–fenil)–tiazol–2–ilo
2190.	4–(p–NO_2–fenil)–tiazol–2–ilo

N.º	R^3–A–
2191.	4–(o–F–fenil)–tiazol–2–ilo
2192.	4–(m–F–fenil)–tiazol–2–ilo
2193.	4–(p–F–fenil)–tiazol–2–ilo
2194.	4–(o–Cl–fenil)–tiazol–2–ilo
2195.	4–(m–Cl–fenil)–tiazol–2–ilo
2196.	4–(p–Cl–fenil)–tiazol–2–ilo
2197.	4–(o–Br–fenil)–tiazol–2–ilo
2198.	4–(m–Br–fenil)–tiazol–2–ilo
2199.	4–(p–Br–fenil)–tiazol–2–ilo
2200.	4–(o–CH_3–fenil)–tiazol–2–ilo
2201.	4–(m–CH_3–fenil)–tiazol–2–ilo
2202.	4–(p–CH_3–fenil)–tiazol–2–ilo
2203.	4–(o–CF_3–fenil)–tiazol–2–ilo
2204.	4–(m–CF_3–fenil)–tiazol–2–ilo
2205.	4–(p–CF_3–fenil)–tiazol–2–ilo
2206.	4–(o–CF_3–fenil)–tiazol–2–ilo
2207.	4–(m–CF_3–fenil)–tiazol–2–ilo
2208.	4–(p–CF_3–fenil)–tiazol–2–ilo
2209.	4–(o–OCH_3–fenil)–tiazol–2–ilo
2210.	4–(m–OCH_3–fenil)–tiazol–2–ilo
2211.	4–(p–OCH_3–fenil)–tiazol–2–ilo
2212.	4–(o–OCF_3–fenil)–tiazol–2–ilo
2213.	4–(m–OCF_3–fenil)–tiazol–2–ilo
2214.	4–(p–OCF_3–fenil)–tiazol–2–ilo
2215.	4–(o–$COOCH_3$–fenil)–tiazol–2–ilo
2216.	4–(m–$COOCH_3$–fenil)–tiazol–2–ilo
2217.	4–(p–$COOCH_3$–fenil)–tiazol–2–ilo
2218.	4–[o–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2219.	4–[m–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2220.	4–[p–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2221.	4–(2,3–dicianofenil)–tiazol–2–ilo
2222.	4–(2,4–dicianofenil)–tiazol–2–ilo
2223.	4–(2,5–dicianofenil)–tiazol–2–ilo
2224.	4–(2,6–dicianofenil)–tiazol–2–ilo
2225.	4–(3,4–dicianofenil)–tiazol–2–ilo
2226.	4–(3,5–dicianofenil)–tiazol–2–ilo
2227.	4–(2,3–difluorofenil)–tiazol–2–ilo
2228.	4–(2,4–difluorofenil)–tiazol–2–ilo
2229.	4–(2,5–difluorofenil)–tiazol–2–ilo
2230.	4–(2,6–difluorofenil)–tiazol–2–ilo
2231.	4–(3,4–difluorofenil)–tiazol–2–ilo
2232.	4–(3,5–difluorofenil)–tiazol–2–ilo
2233.	4–(2,3–diclorofenil)–tiazol–2–ilo
2234.	4–(2,4–diclorofenil)–tiazol–2–ilo
2235.	4–(2,5–diclorofenil)–tiazol–2–ilo
2236.	4–(2,6–diclorofenil)–tiazol–2–ilo
2237.	4–(3,4–diclorofenil)–tiazol–2–ilo
2238.	4–(3,5–diclorofenil)–tiazol–2–ilo
2239.	4–(2,3–dibromofenil)–tiazol–2–ilo
2240.	4–(2,4–dibromofenil)–tiazol–2–ilo
2241.	4–(2,5–dibromofenil)–tiazol–2–ilo
2242.	4–(2,6–dibromofenil)–tiazol–2–ilo
2243.	4–(3,4–dibromofenil)–tiazol–2–ilo
2244.	4–(3,5–dibromofenil)–tiazol–2–ilo
2245.	4–(2,3–dimetilfenil)–tiazol–2–ilo
2246.	4–(2,4–dimetilfenil)–tiazol–2–ilo
2247.	4–(2,5–dimetilfenil)–tiazol–2–ilo
2248.	4–(2,6–dimetilfenil)–tiazol–2–ilo

N.º	R^3–A–
2249.	4–(3,4–dimetilfenil)–tiazol–2–ilo
2250.	4–(3,5–dimetilfenil)–tiazol–2–ilo
2251.	4–[2,3–di(trifluorometil)fenil]–tiazol–2–ilo
2252.	4–[2,4–di(trifluorometil)fenil]–tiazol–2–ilo
2253.	4–[2,5–di(trifluorometil)fenil]–tiazol–2–ilo
2254.	4–[2,6–di(trifluorometil)fenil]–tiazol–2–ilo
2255.	4–[3,4–di(trifluorometil)fenil]–tiazol–2–ilo
2256.	4–[3,5–di(trifluorometil)fenil]–tiazol–2–ilo
2257.	4–(2,3–dimetoxifenil)–tiazol–2–ilo
2258.	4–(2,4–dimetoxifenil)–tiazol–2–ilo
2259.	4–(2,5–dimetoxifenil)–tiazol–2–ilo
2260.	4–(2,6–dimetoxifenil)–tiazol–2–ilo
2261.	4–(3,4–dimetoxifenil)–tiazol–2–ilo
2262.	4–(3,5–dimetoxifenil)–tiazol–2–ilo
2263.	4–(o–CN–fenoxi)–tiazol–2–ilo
2264.	4–(m–CN–fenoxi)–tiazol–2–ilo
2265.	4–(p–CN–fenoxi)–tiazol–2–ilo
2266.	4–(o–NO_2–fenoxi)–tiazol–2–ilo
2267.	4–(m–NO_2–fenoxi)–tiazol–2–ilo
2268.	4–(p–NO_2–fenoxi)–tiazol–2–ilo
2269.	4–(o–F–fenoxi)–tiazol–2–ilo
2270.	4–(m–F–fenoxi)–tiazol–2–ilo
2271.	4–(p–F–fenoxi)–tiazol–2–ilo
2272.	4–(o–Cl–fenoxi)–tiazol–2–ilo
2273.	4–(m–Cl–fenoxi)–tiazol–2–ilo
2274.	4–(p–Cl–fenoxi)–tiazol–2–ilo
2275.	4–(o–Br–fenoxi)–tiazol–2–ilo
2276.	4–(m–Br–fenoxi)–tiazol–2–ilo
2277.	4–(p–Br–fenoxi)–tiazol–2–ilo
2278.	4–(o–CH_3–fenoxi)–tiazol–2–ilo
2279.	4–(m–CH_3–fenoxi)–tiazol–2–ilo
2280.	4–(p–CH_3–fenoxi)–tiazol–2–ilo
2281.	4–(o–CF_3–fenoxi)–tiazol–2–ilo
2282.	4–(m–CF_3–fenoxi)–tiazol–2–ilo
2283.	4–(p–CF_3–fenoxi)–tiazol–2–ilo
2284.	4–(o–CF_3–fenoxi)–tiazol–2–ilo
2285.	4–(m–CF_3–fenoxi)–tiazol–2–ilo
2286.	4–(p–CF_3–fenoxi)–tiazol–2–ilo
2287.	4–(o–OCH_3–fenoxi)–tiazol–2–ilo
2288.	4–(m–OCH_3–fenoxi)–tiazol–2–ilo
2289.	4–(p–OCH_3–fenoxi)–tiazol–2–ilo
2290.	4–(o–OCF_3–fenoxi)–tiazol–2–ilo
2291.	4–(m–OCF_3–fenoxi)–tiazol–2–ilo
2292.	4–(p–OCF_3–fenoxi)–tiazol–2–ilo
2293.	4–(o–$COOCH_3$–fenoxi)–tiazol–2–ilo
2294.	4–(m–$COOCH_3$–fenoxi)–tiazol–2–ilo
2295.	4–(p–$COOCH_3$–fenoxi)–tiazol–2–ilo
2296.	4–[o–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2297.	4–[m–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2298.	4–[p–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2299.	4–(2,3–dicianofenoxi)–tiazol–2–ilo
2300.	4–(2,4–dicianofenoxi)–tiazol–2–ilo
2301.	4–(2,5–dicianofenoxi)–tiazol–2–ilo
2302.	4–(2,6–dicianofenoxi)–tiazol–2–ilo
2303.	4–(3,4–dicianofenoxi)–tiazol–2–ilo
2304.	4–(3,5–dicianofenoxi)–tiazol–2–ilo
2305.	4–(2,3–difluorofenoxi)–tiazol–2–ilo
2306.	4–(2,4–difluorofenoxi)–tiazol–2–ilo

N.º	R^3–A–
2307.	4–(2,5–difluorofenoxi)–tiazol–2–ilo
2308.	4–(2,6–difluorofenoxi)–tiazol–2–ilo
2309.	4–(3,4–difluorofenoxi)–tiazol–2–ilo
2310.	4–(3,5–difluorofenoxi)–tiazol–2–ilo
2311.	4–(2,3–diclorofenoxi)–tiazol–2–ilo
2312.	4–(2,4–diclorofenoxi)–tiazol–2–ilo
2313.	4–(2,5–diclorofenoxi)–tiazol–2–ilo
2314.	4–(2,6–diclorofenoxi)–tiazol–2–ilo
2315.	4–(3,4–diclorofenoxi)–tiazol–2–ilo
2316.	4–(3,5–diclorofenoxi)–tiazol–2–ilo
2317.	4–(2,3–dibromofenoxi)–tiazol–2–ilo
2318.	4–(2,4–dibromofenoxi)–tiazol–2–ilo
2319.	4–(2,5–dibromofenoxi)–tiazol–2–ilo
2320.	4–(2,6–dibromofenoxi)–tiazol–2–ilo
2321.	4–(3,4–dibromofenoxi)–tiazol–2–ilo
2322.	4–(3,5–dibromofenoxi)–tiazol–2–ilo
2323.	4–(2,3–dimetilfenoxi)–tiazol–2–ilo
2324.	4–(2,4–dimetilfenoxi)–tiazol–2–ilo
2325.	4–(2,5–dimetilfenoxi)–tiazol–2–ilo
2326.	4–(2,6–dimetilfenoxi)–tiazol–2–ilo
2327.	4–(3,4–dimetilfenoxi)–tiazol–2–ilo
2328.	4–(3,5–dimetilfenoxi)–tiazol–2–ilo
2329.	4–[2,3–di(trifluorometil)fenoxi]–tiazol–2–ilo
2330.	4–[2,4–di(trifluorometil)fenoxi]–tiazol–2–ilo
2331.	4–[2,5–di(trifluorometil)fenoxi]–tiazol–2–ilo
2332.	4–[2,6–di(trifluorometil)fenoxi]–tiazol–2–ilo
2333.	4–[3,4–di(trifluorometil)fenoxi]–tiazol–2–ilo
2334.	4–[3,5–di(trifluorometil)fenoxi]–tiazol–2–ilo
2335.	4–(2,3–dimetoxifenoxi)–tiazol–2–ilo
2336.	4–(2,4–dimetoxifenoxi)–tiazol–2–ilo
2337.	4–(2,5–dimetoxifenoxi)–tiazol–2–ilo
2338.	4–(2,6–dimetoxifenoxi)–tiazol–2–ilo
2339.	4–(3,4–dimetoxifenoxi)–tiazol–2–ilo
2340.	4–(3,5–dimetoxifenoxi)–tiazol–2–ilo
2341.	5–(o–CN–fenil)–oxazol–2–ilo
2342.	5–(m–CN–fenil)–oxazol–2–ilo
2343.	5–(p–CN–fenil)–oxazol–2–ilo
2344.	5–(o–NO_2–fenil)–oxazol–2–ilo
2345.	5–(m–NO_2–fenil)–oxazol–2–ilo
2346.	5–(p–NO_2–fenil)–oxazol–2–ilo
2347.	5–(o–F–fenil)–oxazol–2–ilo
2348.	5–(m–F–fenil)–oxazol–2–ilo
2349.	5–(p–F–fenil)–oxazol–2–ilo
2350.	5–(o–Cl–fenil)–oxazol–2–ilo
2351.	5–(m–Cl–fenil)–oxazol–2–ilo
2352.	5–(p–Cl–fenil)–oxazol–2–ilo
2353.	5–(o–Br–fenil)–oxazol–2–ilo
2354.	5–(m–Br–fenil)–oxazol–2–ilo
2355.	5–(p–Br–fenil)–oxazol–2–ilo
2356.	5–(o–CH_3–fenil)–oxazol–2–ilo
2357.	5–(m–CH_3–fenil)–oxazol–2–ilo
2358.	5–(p–CH_3–fenil)–oxazol–2–ilo

N.º	R^3–A–
2359.	5–(o–CF_3–fenil)–oxazol–2–ilo
2360.	5–(m–CF_3–fenil)–oxazol–2–ilo
2361.	5–(p–CF_3–fenil)–oxazol–2–ilo
2362.	5–(o–CF_3–fenil)–oxazol–2–ilo
2363.	5–(m–CF_3–fenil)–oxazol–2–ilo
2364.	5–(p–CF_3–fenil)–oxazol–2–ilo
2365.	5–(o–OCH_3–fenil)–oxazol–2–ilo
2366.	5–(m–OCH_3–fenil)–oxazol–2–ilo
2367.	5–(p–OCH_3–fenil)–oxazol–2–ilo
2368.	5–(o–OCF_3–fenil)–oxazol–2–ilo
2369.	5–(m–OCF_3–fenil)–oxazol–2–ilo
2370.	5–(p–OCF_3–fenil)–oxazol–2–ilo
2371.	5–(o–$COOCH_3$–fenil)–oxazol–2–ilo
2372.	5–(m–$COOCH_3$–fenil)–oxazol–2–ilo
2373.	5–(p–$COOCH_3$–fenil)–oxazol–2–ilo
2374.	5–[o–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2375.	5–[m–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2376.	5–[p–$N(CH_3)_2$–fenil]–oxazol–2–ilo
2377.	5–(2,3–dicianofenil)–oxazol–2–ilo
2378.	5–(2,4–dicianofenil)–oxazol–2–ilo
2379.	5–(2,5–dicianofenil)–oxazol–2–ilo
2380.	5–(2,6–dicianofenil)–oxazol–2–ilo
2381.	5–(3,4–dicianofenil)–oxazol–2–ilo
2382.	5–(3,5–dicianofenil)–oxazol–2–ilo
2383.	5–(2,3–difluorofenil)–oxazol–2–ilo
2384.	5–(2,4–difluorofenil)–oxazol–2–ilo
2385.	5–(2,5–difluorofenil)–oxazol–2–ilo
2386.	5–(2,6–difluorofenil)–oxazol–2–ilo
2387.	5–(3,4–difluorofenil)–oxazol–2–ilo
2388.	5–(3,5–difluorofenil)–oxazol–2–ilo
2389.	5–(2,3–diclorofenil)–oxazol–2–ilo
2390.	5–(2,4–diclorofenil)–oxazol–2–ilo
2391.	5–(2,5–diclorofenil)–oxazol–2–ilo
2392.	5–(2,6–diclorofenil)–oxazol–2–ilo
2393.	5–(3,4–diclorofenil)–oxazol–2–ilo
2394.	5–(3,5–diclorofenil)–oxazol–2–ilo
2395.	5–(2,3–dibromofenil)–oxazol–2–ilo
2396.	5–(2,4–dibromofenil)–oxazol–2–ilo
2397.	5–(2,5–dibromofenil)–oxazol–2–ilo
2398.	5–(2,6–dibromofenil)–oxazol–2–ilo
2399.	5–(3,4–dibromofenil)–oxazol–2–ilo
2400.	5–(3,5–dibromofenil)–oxazol–2–ilo
2401.	5–(2,3–dimetilfenil)–oxazol–2–ilo
2402.	5–(2,4–dimetilfenil)–oxazol–2–ilo
2403.	5–(2,5–dimetilfenil)–oxazol–2–ilo
2404.	5–(2,6–dimetilfenil)–oxazol–2–ilo
2405.	5–(3,4–dimetilfenil)–oxazol–2–ilo
2406.	5–(3,5–dimetilfenil)–oxazol–2–ilo
2407.	5–[2,3–di(trifluorometil)fenil]–oxazol–2–ilo
2408.	5–[2,4–di(trifluorometil)fenil]–oxazol–2–ilo
2409.	5–[2,5–di(trifluorometil)fenil]–oxazol–2–ilo
2410.	5–[2,6–di(trifluorometil)fenil]–oxazol–2–ilo
2411.	5–[3,4–di(trifluorometil)fenil]–oxazol–2–ilo

N.º	R^3–A–
2412.	5–[3,5–di(trifluorometil)fenil]–oxazol–2–ilo
2413.	5–(2,3–dimetoxifenil)–oxazol–2–ilo
2414.	5–(2,4–dimetoxifenil)–oxazol–2–ilo
2415.	5–(2,5–dimetoxifenil)–oxazol–2–ilo
2416.	5–(2,6–dimetoxifenil)–oxazol–2–ilo
2417.	5–(3,4–dimetoxifenil)–oxazol–2–ilo
2418.	5–(3,5–dimetoxifenil)–oxazol–2–ilo
2419.	5–(o–CN–fenoxi)–oxazol–2–ilo
2420.	5–(m–CN–fenoxi)–oxazol–2–ilo
2421.	5–(p–CN–fenoxi)–oxazol–2–ilo
2422.	5–(o–NO_2–fenoxi)–oxazol–2–ilo
2423.	5–(m–NO_2–fenoxi)–oxazol–2–ilo
2424.	5–(p–NO_2–fenoxi)–oxazol–2–ilo
2425.	5–(o–F–fenoxi)–oxazol–2–ilo
2426.	5–(m–F–fenoxi)–oxazol–2–ilo
2427.	5–(p–F–fenoxi)–oxazol–2–ilo
2428.	5–(o–Cl–fenoxi)–oxazol–2–ilo
2429.	5–(m–Cl–fenoxi)–oxazol–2–ilo
2430.	5–(p–Cl–fenoxi)–oxazol–2–ilo
2431.	5–(o–Br–fenoxi)–oxazol–2–ilo
2432.	5–(m–Br–fenoxi)–oxazol–2–ilo
2433.	5–(p–Br–fenoxi)–oxazol–2–ilo
2434.	5–(o–CH_3–fenoxi)–oxazol–2–ilo
2435.	5–(m–CH_3–fenoxi)–oxazol–2–ilo
2436.	5–(p–CH_3–fenoxi)–oxazol–2–ilo
2437.	5–(o–CF_3–fenoxi)–oxazol–2–ilo
2438.	5–(m–CF_3–fenoxi)–oxazol–2–ilo
2439.	5–(p–CF_3–fenoxi)–oxazol–2–ilo
2440.	5–(o–CF_3–fenoxi)–oxazol–2–ilo
2441.	5–(m–CF_3–fenoxi)–oxazol–2–ilo
2442.	5–(p–CF_3–fenoxi)–oxazol–2–ilo
2443.	5–(o–OCH_3–fenoxi)–oxazol–2–ilo
2444.	5–(m–OCH_3–fenoxi)–oxazol–2–ilo
2445.	5–(p–OCH_3–fenoxi)–oxazol–2–ilo
2446.	5–(o–OCF_3–fenoxi)–oxazol–2–ilo
2447.	5–(m–OCF_3–fenoxi)–oxazol–2–ilo
2448.	5–(p–OCF_3–fenoxi)–oxazol–2–ilo
2449.	5–(o–$COOCH_3$–fenoxi)–oxazol–2–ilo
2450.	5–(m–$COOCH_3$–fenoxi)–oxazol–2–ilo
2451.	5–(p–$COOCH_3$–fenoxi)–oxazol–2–ilo
2452.	5–[o–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2453.	5–[m–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2454.	5–[p–$N(CH_3)_2$–fenoxi]–oxazol–2–ilo
2455.	5–(2,3–dicianofenoxi)–oxazol–2–ilo
2456.	5–(2,4–dicianofenoxi)–oxazol–2–ilo
2457.	5–(2,5–dicianofenoxi)–oxazol–2–ilo
2458.	5–(2,6–dicianofenoxi)–oxazol–2–ilo
2459.	5–(3,4–dicianofenoxi)–oxazol–2–ilo
2460.	5–(3,5–dicianofenoxi)–oxazol–2–ilo
2461.	5–(2,3–difluorofenoxi)–oxazol–2–ilo
2462.	5–(2,4–difluorofenoxi)–oxazol–2–ilo
2463.	5–(2,5–difluorofenoxi)–oxazol–2–ilo
2464.	5–(2,6–difluorofenoxi)–oxazol–2–ilo
2465.	5–(3,4–difluorofenoxi)–oxazol–2–ilo
2466.	5–(3,5–difluorofenoxi)–oxazol–2–ilo
2467.	5–(2,3–diclorofenoxi)–oxazol–2–ilo
2468.	5–(2,4–diclorofenoxi)–oxazol–2–ilo

N.º	R^3–A–
2469.	5–(2,5–diclorofenoxi)–oxazol–2–ilo
2470.	5–(2,6–diclorofenoxi)–oxazol–2–ilo
2471.	5–(3,4–diclorofenoxi)–oxazol–2–ilo
2472.	5–(3,5–diclorofenoxi)–oxazol–2–ilo
2473.	5–(2,3–dibromofenoxi)–oxazol–2–ilo
2474.	5–(2,4–dibromofenoxi)–oxazol–2–ilo
2475.	5–(2,5–dibromofenoxi)–oxazol–2–ilo
2476.	5–(2,6–dibromofenoxi)–oxazol–2–ilo
2477.	5–(3,4–dibromofenoxi)–oxazol–2–ilo
2478.	5–(3,5–dibromofenoxi)–oxazol–2–ilo
2479.	5–(2,3–dimetilfenoxi)–oxazol–2–ilo
2480.	5–(2,4–dimetilfenoxi)–oxazol–2–ilo
2481.	5–(2,5–dimetilfenoxi)–oxazol–2–ilo
2482.	5–(2,6–dimetilfenoxi)–oxazol–2–ilo
2483.	5–(3,4–dimetilfenoxi)–oxazol–2–ilo
2484.	5–(3,5–dimetilfenoxi)–oxazol–2–ilo
2485.	5–[2,3–di(trifluorometil)fenoxi]–oxazol–2–ilo
2486.	5–[2,4–di(trifluorometil)fenoxi]–oxazol–2–ilo
2487.	5–[2,5–di(trifluorometil)fenoxi]–oxazol–2–ilo
2488.	5–[2,6–di(trifluorometil)fenoxi]–oxazol–2–ilo
2489.	5–[3,4–di(trifluorometil)fenoxi]–oxazol–2–ilo
2490.	5–[3,5–di(trifluorometil)fenoxi]–oxazol–2–ilo
2491.	5–(2,3–dimetoxifenoxi)–oxazol–2–ilo
2492.	5–(2,4–dimetoxifenoxi)–oxazol–2–ilo
2493.	5–(2,5–dimetoxifenoxi)–oxazol–2–ilo
2494.	5–(2,6–dimetoxifenoxi)–oxazol–2–ilo
2495.	5–(3,4–dimetoxifenoxi)–oxazol–2–ilo
2496.	5–(3,5–dimetoxifenoxi)–oxazol–2–ilo
2497.	5–(o–CN–fenil)–tiazol–2–ilo
2498.	5–(m–CN–fenil)–tiazol–2–ilo
2499.	5–(p–CN–fenil)–tiazol–2–ilo
2500.	5–(o–NO_2–fenil)–tiazol–2–ilo
2501.	5–(m–NO_2–fenil)–tiazol–2–ilo
2502.	5–(p–NO_2–fenil)–tiazol–2–ilo
2503.	5–(o–F–fenil)–tiazol–2–ilo
2504.	5–(m–F–fenil)–tiazol–2–ilo
2505.	5–(p–F–fenil)–tiazol–2–ilo
2506.	5–(o–Cl–fenil)–tiazol–2–ilo
2507.	5–(m–Cl–fenil)–tiazol–2–ilo
2508.	5–(p–Cl–fenil)–tiazol–2–ilo
2509.	5–(o–Br–fenil)–tiazol–2–ilo
2510.	5–(m–Br–fenil)–tiazol–2–ilo
2511.	5–(p–Br–fenil)–tiazol–2–ilo
2512.	5–(o–CH_3–fenil)–tiazol–2–ilo
2513.	5–(m–CH_3–fenil)–tiazol–2–ilo
2514.	5–(p–CH_3–fenil)–tiazol–2–ilo
2515.	5–(o–CF_3–fenil)–tiazol–2–ilo
2516.	5–(m–CF_3–fenil)–tiazol–2–ilo
2517.	5–(p–CF_3–fenil)–tiazol–2–ilo
2518.	5–(o–CF_3–fenil)–tiazol–2–ilo
2519.	5–(m–CF_3–fenil)–tiazol–2–ilo
2520.	5–(p–CF_3–fenil)–tiazol–2–ilo

N.º	R^3–A–
2521.	5–(o–OCH_3–fenil)–tiazol–2–ilo
2522.	5–(m–OCH_3–fenil)–tiazol–2–ilo
2523.	5–(p–OCH_3–fenil)–tiazol–2–ilo
2524.	5–(o–OCF_3–fenil)–tiazol–2–ilo
2525.	5–(m–OCF_3–fenil)–tiazol–2–ilo
2526.	5–(p–OCF_3–fenil)–tiazol–2–ilo
2527.	5–(o–$COOCH_3$–fenil)–tiazol–2–ilo
2528.	5–(m–$COOCH_3$–fenil)–tiazol–2–ilo
2529.	5–(p–$COOCH_3$–fenil)–tiazol–2–ilo
2530.	5–[o–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2531.	5–[m–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2532.	5–[p–$N(CH_3)_2$–fenil]–tiazol–2–ilo
2533.	5–(2,3–dicianofenil)–tiazol–2–ilo
2534.	5–(2,4–dicianofenil)–tiazol–2–ilo
2535.	5–(2,5–dicianofenil)–tiazol–2–ilo
2536.	5–(2,6–dicianofenil)–tiazol–2–ilo
2537.	5–(3,4–dicianofenil)–tiazol–2–ilo
2538.	5–(3,5–dicianofenil)–tiazol–2–ilo
2539.	5–(2,3–difluorofenil)–tiazol–2–ilo
2540.	5–(2,4–difluorofenil)–tiazol–2–ilo
2541.	5–(2,5–difluorofenil)–tiazol–2–ilo
2542.	5–(2,6–difluorofenil)–tiazol–2–ilo
2543.	5–(3,4–difluorofenil)–tiazol–2–ilo
2544.	5–(3,5–difluorofenil)–tiazol–2–ilo
2545.	5–(2,3–diclorofenil)–tiazol–2–ilo
2546.	5–(2,4–diclorofenil)–tiazol–2–ilo
2547.	5–(2,5–diclorofenil)–tiazol–2–ilo
2548.	5–(2,6–diclorofenil)–tiazol–2–ilo
2549.	5–(3,4–diclorofenil)–tiazol–2–ilo
2550.	5–(3,5–diclorofenil)–tiazol–2–ilo
2551.	5–(2,3–dibromofenil)–tiazol–2–ilo
2552.	5–(2,4–dibromofenil)–tiazol–2–ilo
2553.	5–(2,5–dibromofenil)–tiazol–2–ilo
2554.	5–(2,6–dibromofenil)–tiazol–2–ilo
2555.	5–(3,4–dibromofenil)–tiazol–2–ilo
2556.	5–(3,5–dibromofenil)–tiazol–2–ilo
2557.	5–(2,3–dimetilfenil)–tiazol–2–ilo
2558.	5–(2,4–dimetilfenil)–tiazol–2–ilo
2559.	5–(2,5–dimetilfenil)–tiazol–2–ilo
2560.	5–(2,6–dimetilfenil)–tiazol–2–ilo
2561.	5–(3,4–dimetilfenil)–tiazol–2–ilo
2562.	5–(3,5–dimetilfenil)–tiazol–2–ilo
2563.	5–[2,3–di(trifluorometil)fenil]–tiazol–2–ilo
2564.	5–[2,4–di(trifluorometil)fenil]–tiazol–2–ilo
2565.	5–[2,5–di(trifluorometil)fenil]–tiazol–2–ilo
2566.	5–[2,6–di(trifluorometil)fenil]–tiazol–2–ilo
2567.	5–[3,4–di(trifluorometil)fenil]–tiazol–2–ilo
2568.	5–[3,5–di(trifluorometil)fenil]–tiazol–2–ilo
2569.	5–(2,3–dimetoxifenil)–tiazol–2–ilo
2570.	5–(2,4–dimetoxifenil)–tiazol–2–ilo
2571.	5–(2,5–dimetoxifenil)–tiazol–2–ilo
2572.	5–(2,6–dimetoxifenil)–tiazol–2–ilo
2573.	5–(3,4–dimetoxifenil)–tiazol–2–ilo
2574.	5–(3,5–dimetoxifenil)–tiazol–2–ilo
2575.	5–(o–CN–fenoxi)–tiazol–2–ilo
2576.	5–(m–CN–fenoxi)–tiazol–2–ilo
2577.	5–(p–CN–fenoxi)–tiazol–2–ilo
2578.	5–(o–NO_2–fenoxi)–tiazol–2–ilo

N.º	R^3–A–
2579.	5–(m–NO_2–fenoxi)–tiazol–2–ilo
2580.	5–(p–NO_2–fenoxi)–tiazol–2–ilo
2581.	5–(o–F–fenoxi)–tiazol–2–ilo
2582.	5–(m–F–fenoxi)–tiazol–2–ilo
2583.	5–(p–F–fenoxi)–tiazol–2–ilo
2584.	5–(o–Cl–fenoxi)–tiazol–2–ilo
2585.	5–(m–Cl–fenoxi)–tiazol–2–ilo
2586.	5–(p–Cl–fenoxi)–tiazol–2–ilo
2587.	5–(o–Br–fenoxi)–tiazol–2–ilo
2588.	5–(m–Br–fenoxi)–tiazol–2–ilo
2589.	5–(p–Br–fenoxi)–tiazol–2–ilo
2590.	5–(o–CH_3–fenoxi)–tiazol–2–ilo
2591.	5–(m–CH_3–fenoxi)–tiazol–2–ilo
2592.	5–(p–CH_3–fenoxi)–tiazol–2–ilo
2593.	5–(o–CF_3–fenoxi)–tiazol–2–ilo
2594.	5–(m–CF_3–fenoxi)–tiazol–2–ilo
2595.	5–(p–CF_3–fenoxi)–tiazol–2–ilo
2596.	5–(o–CF_3–fenoxi)–tiazol–2–ilo
2597.	5–(m–CF_3–fenoxi)–tiazol–2–ilo
2598.	5–(p–CF_3–fenoxi)–tiazol–2–ilo
2599.	5–(o–OCH_3–fenoxi)–tiazol–2–ilo
2600.	5–(m–OCH_3–fenoxi)–tiazol–2–ilo
2601.	5–(p–OCH_3–fenoxi)–tiazol–2–ilo
2602.	5–(o–OCF_3–fenoxi)–tiazol–2–ilo
2603.	5–(m–OCF_3–fenoxi)–tiazol–2–ilo
2604.	5–(p–OCF_3–fenoxi)–tiazol–2–ilo
2605.	5–(o–$COOCH_3$–fenoxi)–tiazol–2–ilo
2606.	5–(m–$COOCH_3$–fenoxi)–tiazol–2–ilo
2607.	5–(p–$COOCH_3$–fenoxi)–tiazol–2–ilo
2608.	5–[o–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2609.	5–[m–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2610.	5–[p–$N(CH_3)_2$–fenoxi]–tiazol–2–ilo
2611.	5–(2,3–dicianofenoxi)–tiazol–2–ilo
2612.	5–(2,4–dicianofenoxi)–tiazol–2–ilo
2613.	5–(2,5–dicianofenoxi)–tiazol–2–ilo
2614.	5–(2,6–dicianofenoxi)–tiazol–2–ilo
2615.	5–(3,4–dicianofenoxi)–tiazol–2–ilo
2616.	5–(3,5–dicianofenoxi)–tiazol–2–ilo
2617.	5–(2,3–difluorofenoxi)–tiazol–2–ilo
2618.	5–(2,4–difluorofenoxi)–tiazol–2–ilo
2619.	5–(2,5–difluorofenoxi)–tiazol–2–ilo
2620.	5–(2,6–difluorofenoxi)–tiazol–2–ilo
2621.	5–(3,4–difluorofenoxi)–tiazol–2–ilo
2622.	5–(3,5–difluorofenoxi)–tiazol–2–ilo
2623.	5–(2,3–diclorofenoxi)–tiazol–2–ilo
2624.	5–(2,4–diclorofenoxi)–tiazol–2–ilo
2625.	5–(2,5–diclorofenoxi)–tiazol–2–ilo
2626.	5–(2,6–diclorofenoxi)–tiazol–2–ilo
2627.	5–(3,4–diclorofenoxi)–tiazol–2–ilo
2628.	5–(3,5–diclorofenoxi)–tiazol–2–ilo
2629.	5–(2,3–dibromofenoxi)–tiazol–2–ilo
2630.	5–(2,4–dibromofenoxi)–tiazol–2–ilo
2631.	5–(2,5–dibromofenoxi)–tiazol–2–ilo
2632.	5–(2,6–dibromofenoxi)–tiazol–2–ilo
2633.	5–(3,4–dibromofenoxi)–tiazol–2–ilo
2634.	5–(3,5–dibromofenoxi)–tiazol–2–ilo
2635.	5–(2,3–dimetilfenoxi)–tiazol–2–ilo
2636.	5–(2,4–dimetilfenoxi)–tiazol–2–ilo

N.º	R^3–A–
2637.	5–(2,5–dimetilfenoxi)–tiazol–2–ilo
2638.	5–(2,6–dimetilfenoxi)–tiazol–2–ilo
2639.	5–(3,4–dimetilfenoxi)–tiazol–2–ilo
2640.	5–(3,5–dimetilfenoxi)–tiazol–2–ilo
2641.	5–[2,3–di(trifluorometil)fenoxi]–tiazol–2–ilo
2642.	5–[2,4–di(trifluorometil)fenoxi]–tiazol–2–ilo
2643.	5–[2,5–di(trifluorometil)fenoxi]–tiazol–2–ilo
2644.	5–[2,6–di(trifluorometil)fenoxi]–tiazol–2–ilo
2645.	5–[3,4–di(trifluorometil)fenoxi]–tiazol–2–ilo
2646.	5–[3,5–di(trifluorometil)fenoxi]–tiazol–2–ilo
2647.	5–(2,3–dimetoxifenoxi)–tiazol–2–ilo
2648.	5–(2,4–dimetoxifenoxi)–tiazol–2–ilo
2649.	5–(2,5–dimetoxifenoxi)–tiazol–2–ilo
2650.	5–(2,6–dimetoxifenoxi)–tiazol–2–ilo
2651.	5–(3,4–dimetoxifenoxi)–tiazol–2–ilo
2652.	5–(3,5–dimetoxifenoxi)–tiazol–2–ilo
2653.	2–(o–CN–fenil)–oxazol–5–ilo
2654.	2–(m–CN–fenil)–oxazol–5–ilo
2655.	2–(p–CN–fenil)–oxazol–5–ilo
2656.	2–(o–NO_2–fenil)–oxazol–5–ilo
2657.	2–(m–NO_2–fenil)–oxazol–5–ilo
2658.	2–(p–NO_2–fenil)–oxazol–5–ilo
2659.	2–(o–F–fenil)–oxazol–5–ilo
2660.	2–(m–F–fenil)–oxazol–5–ilo
2661.	2–(p–F–fenil)–oxazol–5–ilo
2662.	2–(o–Cl–fenil)–oxazol–5–ilo
2663.	2–(m–Cl–fenil)–oxazol–5–ilo
2664.	2–(p–Cl–fenil)–oxazol–5–ilo
2665.	2–(o–Br–fenil)–oxazol–5–ilo
2666.	2–(m–Br–fenil)–oxazol–5–ilo
2667.	2–(p–Br–fenil)–oxazol–5–ilo
2668.	2–(o–CH_3–fenil)–oxazol–5–ilo
2669.	2–(m–CH_3–fenil)–oxazol–5–ilo
2670.	2–(p–CH_3–fenil)–oxazol–5–ilo
2671.	2–(o–CF_3–fenil)–oxazol–5–ilo
2672.	2–(m–CF_3–fenil)–oxazol–5–ilo
2673.	2–(p–CF_3–fenil)–oxazol–5–ilo
2674.	2–(o–CF_3–fenil)–oxazol–5–ilo
2675.	2–(m–CF_3–fenil)–oxazol–5–ilo
2676.	2–(p–CF_3–fenil)–oxazol–5–ilo
2677.	2–(o–OCH_3–fenil)–oxazol–5–ilo
2678.	2–(m–OCH_3–fenil)–oxazol–5–ilo
2679.	2–(p–OCH_3–fenil)–oxazol–5–ilo
2680.	2–(o–OCF_3–fenil)–oxazol–5–ilo
2681.	2–(m–OCF_3–fenil)–oxazol–5–ilo
2682.	2–(p–OCF_3–fenil)–oxazol–5–ilo
2683.	2–(o–$COOCH_3$–fenil)–oxazol–5–ilo
2684.	2–(m–$COOCH_3$–fenil)–oxazol–5–ilo
2685.	2–(p–$COOCH_3$–fenil)–oxazol–5–ilo
2686.	2–[o–$N(CH_3)_2$–fenil]–oxazol–5–ilo
2687.	2–[m–$N(CH_3)_2$–fenil]–oxazol–5–ilo
2688.	2–[p–$N(CH_3)_2$–fenil]–oxazol–5–ilo

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N.º	R^3–A–
2689.	2–(2,3–dicianofenil)–oxazol–5–ilo
2690.	2–(2,4–dicianofenil)–oxazol–5–ilo
2691.	2–(2,5–dicianofenil)–oxazol–5–ilo
2692.	2–(2,6–dicianofenil)–oxazol–5–ilo
2693.	2–(3,4–dicianofenil)–oxazol–5–ilo
2694.	2–(3,5–dicianofenil)–oxazol–5–ilo
2695.	2–(2,3–difluorofenil)–oxazol–5–ilo
2696.	2–(2,4–difluorofenil)–oxazol–5–ilo
2697.	2–(2,5–difluorofenil)–oxazol–5–ilo
2698.	2–(2,6–difluorofenil)–oxazol–5–ilo
2699.	2–(3,4–difluorofenil)–oxazol–5–ilo
2700.	2–(3,5–difluorofenil)–oxazol–5–ilo
2701.	2–(2,3–diclorofenil)–oxazol–5–ilo
2702.	2–(2,4–diclorofenil)–oxazol–5–ilo
2703.	2–(2,5–diclorofenil)–oxazol–5–ilo
2704.	2–(2,6–diclorofenil)–oxazol–5–ilo
2705.	2–(3,4–diclorofenil)–oxazol–5–ilo
2706.	2–(3,5–diclorofenil)–oxazol–5–ilo
2707.	2–(2,3–dibromofenil)–oxazol–5–ilo
2708.	2–(2,4–dibromofenil)–oxazol–5–ilo
2709.	2–(2,5–dibromofenil)–oxazol–5–ilo
2710.	2–(2,6–dibromofenil)–oxazol–5–ilo
2711.	2–(3,4–dibromofenil)–oxazol–5–ilo
2712.	2–(3,5–dibromofenil)–oxazol–5–ilo
2713.	2–(2,3–dimetilfenil)–oxazol–5–ilo
2714.	2–(2,4–dimetilfenil)–oxazol–5–ilo
2715.	2–(2,5–dimetilfenil)–oxazol–5–ilo
2716.	2–(2,6–dimetilfenil)–oxazol–5–ilo
2717.	2–(3,4–dimetilfenil)–oxazol–5–ilo
2718.	2–(3,5–dimetilfenil)–oxazol–5–ilo
2719.	2–[2,3–di(trifluorometil)fenil]–oxazol–5–ilo
2720.	2–[2,4–di(trifluorometil)fenil]–oxazol–5–ilo
2721.	2–[2,5–di(trifluorometil)fenil]–oxazol–5–ilo
2722.	2–[2,6–di(trifluorometil)fenil]–oxazol–5–ilo
2723.	2–[3,4–di(trifluorometil)fenil]–oxazol–5–ilo
2724.	2–[3,5–di(trifluorometil)fenil]–oxazol–5–ilo
2725.	2–(2,3–dimetoxifenil)–oxazol–5–ilo
2726.	2–(2,4–dimetoxifenil)–oxazol–5–ilo
2727.	2–(2,5–dimetoxifenil)–oxazol–5–ilo
2728.	2–(2,6–dimetoxifenil)–oxazol–5–ilo
2729.	2–(3,4–dimetoxifenil)–oxazol–5–ilo
2730.	2–(3,5–dimetoxifenil)–oxazol–5–ilo
2731.	2–(o–CN–fenoxi)–oxazol–5–ilo
2732.	2–(m–CN–fenoxi)–oxazol–5–ilo
2733.	2–(p–CN–fenoxi)–oxazol–5–ilo
2734.	2–(o–NO_2–fenoxi)–oxazol–5–ilo
2735.	2–(m–NO_2–fenoxi)–oxazol–5–ilo
2736.	2–(p–NO_2–fenoxi)–oxazol–5–ilo
2737.	2–(o–F–fenoxi)–oxazol–5–ilo
2738.	2–(m–F–fenoxi)–oxazol–5–ilo
2739.	2–(p–F–fenoxi)–oxazol–5–ilo
2740.	2–(o–Cl–fenoxi)–oxazol–5–ilo

N.º	R^3–A–
2741.	2–(m–Cl–fenoxi)–oxazol–5–ilo
2742.	2–(p–Cl–fenoxi)–oxazol–5–ilo
2743.	2–(o–Br–fenoxi)–oxazol–5–ilo
2744.	2–(m–Br–fenoxi)–oxazol–5–ilo
2745.	2–(p–Br–fenoxi)–oxazol–5–ilo
2746.	2–(o–CH_3–fenoxi)–oxazol–5–ilo
2747.	2–(m–CH_3–fenoxi)–oxazol–5–ilo
2748.	2–(p–CH_3–fenoxi)–oxazol–5–ilo
2749.	2–(o–CF_3–fenoxi)–oxazol–5–ilo
2750.	2–(m–CF_3–fenoxi)–oxazol–5–ilo
2751.	2–(p–CF_3–fenoxi)–oxazol–5–ilo
2752.	2–(o–CF_3–fenoxi)–oxazol–5–ilo
2753.	2–(m–CF_3–fenoxi)–oxazol–5–ilo
2754.	2–(p–CF_3–fenoxi)–oxazol–5–ilo
2755.	2–(o–OCH_3–fenoxi)–oxazol–5–ilo
2756.	2–(m–OCH_3–fenoxi)–oxazol–5–ilo
2757.	2–(p–OCH_3–fenoxi)–oxazol–5–ilo
2758.	2–(o–OCF_3–fenoxi)–oxazol–5–ilo
2759.	2–(m–OCF_3–fenoxi)–oxazol–5–ilo
2760.	2–(p–OCF_3–fenoxi)–oxazol–5–ilo
2761.	2–(o–$COOCH_3$–fenoxi)–oxazol–5–ilo
2762.	2–(m–$COOCH_3$–fenoxi)–oxazol–5–ilo
2763.	2–(p–$COOCH_3$–fenoxi)–oxazol–5–ilo
2764.	2–[o–$N(CH_3)_2$–fenoxi]–oxazol–5–ilo
2765.	2–[m–$N(CH_3)_2$–fenoxi]–oxazol–5–ilo
2766.	2–[p–$N(CH_3)_2$–fenoxi]–oxazol–5–ilo
2767.	2–(2,3–dicianofenoxi)–oxazol–5–ilo
2768.	2–(2,4–dicianofenoxi)–oxazol–5–ilo
2769.	2–(2,5–dicianofenoxi)–oxazol–5–ilo
2770.	2–(2,6–dicianofenoxi)–oxazol–5–ilo
2771.	2–(3,4–dicianofenoxi)–oxazol–5–ilo
2772.	2–(3,5–dicianofenoxi)–oxazol–5–ilo
2773.	2–(2,3–difluorofenoxi)–oxazol–5–ilo
2774.	2–(2,4–difluorofenoxi)–oxazol–5–ilo
2775.	2–(2,5–difluorofenoxi)–oxazol–5–ilo
2776.	2–(2,6–difluorofenoxi)–oxazol–5–ilo
2777.	2–(3,4–difluorofenoxi)–oxazol–5–ilo
2778.	2–(3,5–difluorofenoxi)–oxazol–5–ilo
2779.	2–(2,3–diclorofenoxi)–oxazol–5–ilo
2780.	2–(2,4–diclorofenoxi)–oxazol–5–ilo
2781.	2–(2,5–diclorofenoxi)–oxazol–5–ilo
2782.	2–(2,6–diclorofenoxi)–oxazol–5–ilo
2783.	2–(3,4–diclorofenoxi)–oxazol–5–ilo
2784.	2–(3,5–diclorofenoxi)–oxazol–5–ilo
2785.	2–(2,3–dibromofenoxi)–oxazol–5–ilo
2786.	2–(2,4–dibromofenoxi)–oxazol–5–ilo
2787.	2–(2,5–dibromofenoxi)–oxazol–5–ilo
2788.	2–(2,6–dibromofenoxi)–oxazol–5–ilo
2789.	2–(3,4–dibromofenoxi)–oxazol–5–ilo
2790.	2–(3,5–dibromofenoxi)–oxazol–5–ilo
2791.	2–(2,3–dimetilfenoxi)–oxazol–5–ilo
2792.	2–(2,4–dimetilfenoxi)–oxazol–5–ilo
2793.	2–(2,5–dimetilfenoxi)–oxazol–5–ilo
2794.	2–(2,6–dimetilfenoxi)–oxazol–5–ilo
2795.	2–(3,4–dimetilfenoxi)–oxazol–5–ilo
2796.	2–(3,5–dimetilfenoxi)–oxazol–5–ilo
2797.	2–[2,3–di(trifluorometil)fenoxi]–oxazol–5–ilo

N.º	R^3–A–
2798.	2–[2,4–di(trifluorometil)fenoxi]–oxazol–5–ilo
2799.	2–[2,5–di(trifluorometil)fenoxi]–oxazol–5–ilo
2800.	2–[2,6–di(trifluorometil)fenoxi]–oxazol–5–ilo
2801.	2–[3,4–di(trifluorometil)fenoxi]–oxazol–5–ilo
2802.	2–[3,5–di(trifluorometil)fenoxi]–oxazol–5–ilo
2803.	2–(2,3–dimetoxifenoxi)–oxazol–5–ilo
2804.	2–(2,4–dimetoxifenoxi)–oxazol–5–ilo
2805.	2–(2,5–dimetoxifenoxi)–oxazol–5–ilo
2806.	2–(2,6–dimetoxifenoxi)–oxazol–5–ilo
2807.	2–(3,4–dimetoxifenoxi)–oxazol–5–ilo
2808.	2–(3,5–dimetoxifenoxi)–oxazol–5–ilo
2809.	2–(o–CN–fenil)–tiazol–5–ilo
2810.	2–(m–CN–fenil)–tiazol–5–ilo
2811.	2–(p–CN–fenil)–tiazol–5–ilo
2812.	2–(o–NO_2–fenil)–tiazol–5–ilo
2813.	2–(m–NO_2–fenil)–tiazol–5–ilo
2814.	2–(p–NO_2–fenil)–tiazol–5–ilo
2815.	2–(o–F–fenil)–tiazol–5–ilo
2816.	2–(m–F–fenil)–tiazol–5–ilo
2817.	2–(p–F–fenil)–tiazol–5–ilo
2818.	2–(o–Cl–fenil)–tiazol–5–ilo
2819.	2–(m–Cl–fenil)–tiazol–5–ilo
2820.	2–(p–Cl–fenil)–tiazol–5–ilo
2821.	2–(o–Br–fenil)–tiazol–5–ilo
2822.	2–(m–Br–fenil)–tiazol–5–ilo
2823.	2–(p–Br–fenil)–tiazol–5–ilo
2824.	2–(o–CH_3–fenil)–tiazol–5–ilo
2825.	2–(m–CH_3–fenil)–tiazol–5–ilo
2826.	2–(p–CH_3–fenil)–tiazol–5–ilo
2827.	2–(o–CF_3–fenil)–tiazol–5–ilo
2828.	2–(m–CF_3–fenil)–tiazol–5–ilo
2829.	2–(p–CF_3–fenil)–tiazol–5–ilo
2830.	2–(o–CF_3–fenil)–tiazol–5–ilo
2831.	2–(m–CF_3–fenil)–tiazol–5–ilo
2832.	2–(p–CF_3–fenil)–tiazol–5–ilo
2833.	2–(o–OCH_3–fenil)–tiazol–5–ilo
2834.	2–(m–OCH_3–fenil)–tiazol–5–ilo
2835.	2–(p–OCH_3–fenil)–tiazol–5–ilo
2836.	2–(o–OCF_3–fenil)–tiazol–5–ilo
2837.	2–(m–OCF_3–fenil)–tiazol–5–ilo
2838.	2–(p–OCF_3–fenil)–tiazol–5–ilo
2839.	2–(o–$COOCH_3$–fenil)–tiazol–5–ilo
2840.	2–(m–$COOCH_3$–fenil)–tiazol–5–ilo
2841.	2–(p–$COOCH_3$–fenil)–tiazol–5–ilo
2842.	2–[o–$N(CH_3)_2$–fenil]–tiazol–5–ilo
2843.	2–[m–$N(CH_3)_2$–fenil]–tiazol–5–ilo
2844.	2–[p–$N(CH_3)_2$–fenil]–tiazol–5–ilo
2845.	2–(2,3–dicianofenil)–tiazol–5–ilo
2846.	2–(2,4–dicianofenil)–tiazol–5–ilo
2847.	2–(2,5–dicianofenil)–tiazol–5–ilo
2848.	2–(2,6–dicianofenil)–tiazol–5–ilo
2849.	2–(3,4–dicianofenil)–tiazol–5–ilo
2850.	2–(3,5–dicianofenil)–tiazol–5–ilo

N.º	R^3–A–
2851.	2–(2,3–difluorofenil)–tiazol–5–ilo
2852.	2–(2,4–difluorofenil)–tiazol–5–ilo
2853.	2–(2,5–difluorofenil)–tiazol–5–ilo
2854.	2–(2,6–difluorofenil)–tiazol–5–ilo
2855.	2–(3,4–difluorofenil)–tiazol–5–ilo
2856.	2–(3,5–difluorofenil)–tiazol–5–ilo
2857.	2–(2,3–diclorofenil)–tiazol–5–ilo
2858.	2–(2,4–diclorofenil)–tiazol–5–ilo
2859.	2–(2,5–diclorofenil)–tiazol–5–ilo
2860.	2–(2,6–diclorofenil)–tiazol–5–ilo
2861.	2–(3,4–diclorofenil)–tiazol–5–ilo
2862.	2–(3,5–diclorofenil)–tiazol–5–ilo
2863.	2–(2,3–dibromofenil)–tiazol–5–ilo
2864.	2–(2,4–dibromofenil)–tiazol–5–ilo
2865.	2–(2,5–dibromofenil)–tiazol–5–ilo
2866.	2–(2,6–dibromofenil)–tiazol–5–ilo
2867.	2–(3,4–dibromofenil)–tiazol–5–ilo
2868.	2–(3,5–dibromofenil)–tiazol–5–ilo
2869.	2–(2,3–dimetilfenil)–tiazol–5–ilo
2870.	2–(2,4–dimetilfenil)–tiazol–5–ilo
2871.	2–(2,5–dimetilfenil)–tiazol–5–ilo
2872.	2–(2,6–dimetilfenil)–tiazol–5–ilo
2873.	2–(3,4–dimetilfenil)–tiazol–5–ilo
2874.	2–(3,5–dimetilfenil)–tiazol–5–ilo
2875.	2–[2,3–di(trifluorometil)fenil]–tiazol–5–ilo
2876.	2–[2,4–di(trifluorometil)fenil]–tiazol–5–ilo
2877.	2–[2,5–di(trifluorometil)fenil]–tiazol–5–ilo
2878.	2–[2,6–di(trifluorometil)fenil]–tiazol–5–ilo
2879.	2–[3,4–di(trifluorometil)fenil]–tiazol–5–ilo
2880.	2–[3,5–di(trifluorometil)fenil]–tiazol–5–ilo
2881.	2–(2,3–dimetoxifenil)–tiazol–5–ilo
2882.	2–(2,4–dimetoxifenil)–tiazol–5–ilo
2883.	2–(2,5–dimetoxifenil)–tiazol–5–ilo
2884.	2–(2,6–dimetoxifenil)–tiazol–5–ilo
2885.	2–(3,4–dimetoxifenil)–tiazol–5–ilo
2886.	2–(3,5–dimetoxifenil)–tiazol–5–ilo
2887.	2–(o–CN–fenoxi)–tiazol–5–ilo
2888.	2–(m–CN–fenoxi)–tiazol–5–ilo
2889.	2–(p–CN–fenoxi)–tiazol–5–ilo
2890.	2–(o–NO_2–fenoxi)–tiazol–5–ilo
2891.	2–(m–NO_2–fenoxi)–tiazol–5–ilo
2892.	2–(p–NO_2–fenoxi)–tiazol–5–ilo
2893.	2–(o–F–fenoxi)–tiazol–5–ilo
2894.	2–(m–F–fenoxi)–tiazol–5–ilo
2895.	2–(p–F–fenoxi)–tiazol–5–ilo
2896.	2–(o–Cl–fenoxi)–tiazol–5–ilo
2897.	2–(m–Cl–fenoxi)–tiazol–5–ilo
2898.	2–(p–Cl–fenoxi)–tiazol–5–ilo
2899.	2–(o–Br–fenoxi)–tiazol–5–ilo
2900.	2–(m–Br–fenoxi)–tiazol–5–ilo
2901.	2–(p–Br–fenoxi)–tiazol–5–ilo
2902.	2–(o–CH_3–fenoxi)–tiazol–5–ilo
2903.	2–(m–CH_3–fenoxi)–tiazol–5–ilo
2904.	2–(p–CH_3–fenoxi)–tiazol–5–ilo
2905.	2–(o–CF_3–fenoxi)–tiazol–5–ilo
2906.	2–(m–CF_3–fenoxi)–tiazol–5–ilo
2907.	2–(p–CF_3–fenoxi)–tiazol–5–ilo
2908.	2–(o–CF_3–fenoxi)–tiazol–5–ilo

N.º	R^3–A–
2909.	2–(m–CF_3–fenoxi)–tiazol–5–ilo
2910.	2–(p–CF_3–fenoxi)–tiazol–5–ilo
2911.	2–(o–OCH_3–fenoxi)–tiazol–5–ilo
2912.	2–(m–OCH_3–fenoxi)–tiazol–5–ilo
2913.	2–(p–OCH_3–fenoxi)–tiazol–5–ilo
2914.	2–(o–OCF_3–fenoxi)–tiazol–5–ilo
2915.	2–(m–OCF_3–fenoxi)–tiazol–5–ilo
2916.	2–(p–OCF_3–fenoxi)–tiazol–5–ilo
2917.	2–(o–$COOCH_3$–fenoxi)–tiazol–5–ilo
2918.	2–(m–$COOCH_3$–fenoxi)–tiazol–5–ilo
2919.	2–(p–$COOCH_3$–fenoxi)–tiazol–5–ilo
2920.	2–[o–$N(CH_3)_2$–fenoxi]–tiazol–5–ilo
2921.	2–[m–$N(CH_3)_2$–fenoxi]–tiazol–5–ilo
2922.	2–[p–$N(CH_3)_2$–fenoxi]–tiazol–5–ilo
2923.	2–(2,3–dicianofenoxi)–tiazol–5–ilo
2924.	2–(2,4–dicianofenoxi)–tiazol–5–ilo
2925.	2–(2,5–dicianofenoxi)–tiazol–5–ilo
2926.	2–(2,6–dicianofenoxi)–tiazol–5–ilo
2927.	2–(3,4–dicianofenoxi)–tiazol–5–ilo
2928.	2–(3,5–dicianofenoxi)–tiazol–5–ilo
2929.	2–(2,3–difluorofenoxi)–tiazol–5–ilo
2930.	2–(2,4–difluorofenoxi)–tiazol–5–ilo
2931.	2–(2,5–difluorofenoxi)–tiazol–5–ilo
2932.	2–(2,6–difluorofenoxi)–tiazol–5–ilo
2933.	2–(3,4–difluorofenoxi)–tiazol–5–ilo
2934.	2–(3,5–difluorofenoxi)–tiazol–5–ilo
2935.	2–(2,3–diclorofenoxi)–tiazol–5–ilo
2936.	2–(2,4–diclorofenoxi)–tiazol–5–ilo
2937.	2–(2,5–diclorofenoxi)–tiazol–5–ilo
2938.	2–(2,6–diclorofenoxi)–tiazol–5–ilo
2939.	2–(3,4–diclorofenoxi)–tiazol–5–ilo
2940.	2–(3,5–diclorofenoxi)–tiazol–5–ilo
2941.	2–(2,3–dibromofenoxi)–tiazol–5–ilo
2942.	2–(2,4–dibromofenoxi)–tiazol–5–ilo
2943.	2–(2,5–dibromofenoxi)–tiazol–5–ilo
2944.	2–(2,6–dibromofenoxi)–tiazol–5–ilo
2945.	2–(3,4–dibromofenoxi)–tiazol–5–ilo
2946.	2–(3,5–dibromofenoxi)–tiazol–5–ilo
2947.	2–(2,3–dimetilfenoxi)–tiazol–5–ilo
2948.	2–(2,4–dimetilfenoxi)–tiazol–5–ilo
2949.	2–(2,5–dimetilfenoxi)–tiazol–5–ilo
2950.	2–(2,6–dimetilfenoxi)–tiazol–5–ilo
2951.	2–(3,4–dimetilfenoxi)–tiazol–5–ilo
2952.	2–(3,5–dimetilfenoxi)–tiazol–5–ilo
2953.	2–[2,3–di(trifluorometil)fenoxi]–tiazol–5–ilo
2954.	2–[2,4–di(trifluorometil)fenoxi]–tiazol–5–ilo
2955.	2–[2,5–di(trifluorometil)fenoxi]–tiazol–5–ilo
2956.	2–[2,6–di(trifluorometil)fenoxi]–tiazol–5–ilo
2957.	2–[3,4–di(trifluorometil)fenoxi]–tiazol–5–ilo
2958.	2–[3,5–di(trifluorometil)fenoxi]–tiazol–5–ilo
2959.	2–(2,3–dimetoxifenoxi)–tiazol–5–ilo
2960.	2–(2,4–dimetoxifenoxi)–tiazol–5–ilo

N.º	R^3–A–
2961.	2–(2,5–dimetoxifenoxi)–tiazol–5–ilo
2962.	2–(2,6–dimetoxifenoxi)–tiazol–5–ilo
2963.	2–(3,4–dimetoxifenoxi)–tiazol–5–ilo
2964.	2–(3,5–dimetoxifenoxi)–tiazol–5–ilo
2965.	2–(o–CN–fenil)–oxazol–4–ilo
2966.	2–(m–CN–fenil)–oxazol–4–ilo
2967.	2–(p–CN–fenil)–oxazol–4–ilo
2968.	2–(o–NO_2–fenil)–oxazol–4–ilo
2969.	2–(m–NO_2–fenil)–oxazol–4–ilo
2970.	2–(p–NO_2–fenil)–oxazol–4–ilo
2971.	2–(o–F–fenil)–oxazol–4–ilo
2972.	2–(m–F–fenil)–oxazol–4–ilo
2973.	2–(p–F–fenil)–oxazol–4–ilo
2974.	2–(o–Cl–fenil)–oxazol–4–ilo
2975.	2–(m–Cl–fenil)–oxazol–4–ilo
2976.	2–(p–Cl–fenil)–oxazol–4–ilo
2977.	2–(o–Br–fenil)–oxazol–4–ilo
2978.	2–(m–Br–fenil)–oxazol–4–ilo
2979.	2–(p–Br–fenil)–oxazol–4–ilo
2980.	2–(o–CH_3–fenil)–oxazol–4–ilo
2981.	2–(m–CH_3–fenil)–oxazol–4–ilo
2982.	2–(p–CH_3–fenil)–oxazol–4–ilo
2983.	2–(o–CF_3–fenil)–oxazol–4–ilo
2984.	2–(m–CF_3–fenil)–oxazol–4–ilo
2985.	2–(p–CF_3–fenil)–oxazol–4–ilo
2986.	2–(o–CF_3–fenil)–oxazol–4–ilo
2987.	2–(m–CF_3–fenil)–oxazol–4–ilo
2988.	2–(p–CF_3–fenil)–oxazol–4–ilo
2989.	2–(o–OCH_3–fenil)–oxazol–4–ilo
2990.	2–(m–OCH_3–fenil)–oxazol–4–ilo
2991.	2–(p–OCH_3–fenil)–oxazol–4–ilo
2992.	2–(o–OCF_3–fenil)–oxazol–4–ilo
2993.	2–(m–OCF_3–fenil)–oxazol–4–ilo
2994.	2–(p–OCF_3–fenil)–oxazol–4–ilo
2995.	2–(o–$COOCH_3$–fenil)–oxazol–4–ilo
2996.	2–(m–$COOCH_3$–fenil)–oxazol–4–ilo
2997.	2–(p–$COOCH_3$–fenil)–oxazol–4–ilo
2998.	2–[o–$N(CH_3)_2$–fenil]–oxazol–4–ilo
2999.	2–[m–$N(CH_3)_2$–fenil]–oxazol–4–ilo
3000.	2–[p–$N(CH_3)_2$–fenil]–oxazol–4–ilo
3001.	2–(2,3–dicianofenil)–oxazol–4–ilo
3002.	2–(2,4–dicianofenil)–oxazol–4–ilo
3003.	2–(2,5–dicianofenil)–oxazol–4–ilo
3004.	2–(2,6–dicianofenil)–oxazol–4–ilo
3005.	2–(3,4–dicianofenil)–oxazol–4–ilo
3006.	2–(3,5–dicianofenil)–oxazol–4–ilo
3007.	2–(2,3–difluorofenil)–oxazol–4–ilo
3008.	2–(2,4–difluorofenil)–oxazol–4–ilo
3009.	2–(2,5–difluorofenil)–oxazol–4–ilo
3010.	2–(2,6–difluorofenil)–oxazol–4–ilo
3011.	2–(3,4–difluorofenil)–oxazol–4–ilo
3012.	2–(3,5–difluorofenil)–oxazol–4–ilo
3013.	2–(2,3–diclorofenil)–oxazol–4–ilo
3014.	2–(2,4–diclorofenil)–oxazol–4–ilo
3015.	2–(2,5–diclorofenil)–oxazol–4–ilo
3016.	2–(2,6–diclorofenil)–oxazol–4–ilo
3017.	2–(3,4–diclorofenil)–oxazol–4–ilo
3018.	2–(3,5–diclorofenil)–oxazol–4–ilo

N.º	R^3–A–
3019.	2–(2,3–dibromofenil)–oxazol–4–ilo
3020.	2–(2,4–dibromofenil)–oxazol–4–ilo
3021.	2–(2,5–dibromofenil)–oxazol–4–ilo
3022.	2–(2,6–dibromofenil)–oxazol–4–ilo
3023.	2–(3,4–dibromofenil)–oxazol–4–ilo
3024.	2–(3,5–dibromofenil)–oxazol–4–ilo
3025.	2–(2,3–dimetilfenil)–oxazol–4–ilo
3026.	2–(2,4–dimetilfenil)–oxazol–4–ilo
3027.	2–(2,5–dimetilfenil)–oxazol–4–ilo
3028.	2–(2,6–dimetilfenil)–oxazol–4–ilo
3029.	2–(3,4–dimetilfenil)–oxazol–4–ilo
3030.	2–(3,5–dimetilfenil)–oxazol–4–ilo
3031.	2–[2,3–di(trifluorometil)fenil]–oxazol–4–ilo
3032.	2–[2,4–di(trifluorometil)fenil]–oxazol–4–ilo
3033.	2–[2,5–di(trifluorometil)fenil]–oxazol–4–ilo
3034.	2–[2,6–di(trifluorometil)fenil]–oxazol–4–ilo
3035.	2–[3,4–di(trifluorometil)fenil]–oxazol–4–ilo
3036.	2–[3,5–di(trifluorometil)fenil]–oxazol–4–ilo
3037.	2–(2,3–dimetoxifenil)–oxazol–4–ilo
3038.	2–(2,4–dimetoxifenil)–oxazol–4–ilo
3039.	2–(2,5–dimetoxifenil)–oxazol–4–ilo
3040.	2–(2,6–dimetoxifenil)–oxazol–4–ilo
3041.	2–(3,4–dimetoxifenil)–oxazol–4–ilo
3042.	2–(3,5–dimetoxifenil)–oxazol–4–ilo
3043.	2–(o–CN–fenoxi)–oxazol–4–ilo
3044.	2–(m–CN–fenoxi)–oxazol–4–ilo
3045.	2–(p–CN–fenoxi)–oxazol–4–ilo
3046.	2–(o–NO_2–fenoxi)–oxazol–4–ilo
3047.	2–(m–NO_2–fenoxi)–oxazol–4–ilo
3048.	2–(p–NO_2–fenoxi)–oxazol–4–ilo
3049.	2–(o–F–fenoxi)–oxazol–4–ilo
3050.	2–(m–F–fenoxi)–oxazol–4–ilo
3051.	2–(p–F–fenoxi)–oxazol–4–ilo
3052.	2–(o–Cl–fenoxi)–oxazol–4–ilo
3053.	2–(m–Cl–fenoxi)–oxazol–4–ilo
3054.	2–(p–Cl–fenoxi)–oxazol–4–ilo
3055.	2–(o–Br–fenoxi)–oxazol–4–ilo
3056.	2–(m–Br–fenoxi)–oxazol–4–ilo
3057.	2–(p–Br–fenoxi)–oxazol–4–ilo
3058.	2–(o–CH_3–fenoxi)–oxazol–4–ilo
3059.	2–(m–CH_3–fenoxi)–oxazol–4–ilo
3060.	2–(p–CH_3–fenoxi)–oxazol–4–ilo
3061.	2–(o–CF_3–fenoxi)–oxazol–4–ilo
3062.	2–(m–CF_3–fenoxi)–oxazol–4–ilo
3063.	2–(p–CF_3–fenoxi)–oxazol–4–ilo
3064.	2–(o–CF_3–fenoxi)–oxazol–4–ilo
3065.	2–(m–CF_3–fenoxi)–oxazol–4–ilo
3066.	2–(p–CF_3–fenoxi)–oxazol–4–ilo
3067.	2–(o–OCH_3–fenoxi)–oxazol–4–ilo
3068.	2–(m–OCH_3–fenoxi)–oxazol–4–ilo
3069.	2–(p–OCH_3–fenoxi)–oxazol–4–ilo
3070.	2–(o–OCF_3–fenoxi)–oxazol–4–ilo

N.º	R^3–A–
3071.	2–(m–OCF_3–fenoxi)–oxazol–4–ilo
3072.	2–(p–OCF_3–fenoxi)–oxazol–4–ilo
3073.	2–(o–$COOCH_3$–fenoxi)–oxazol–4–ilo
3074.	2–(m–$COOCH_3$–fenoxi)–oxazol–4–ilo
3075.	2–(p–$COOCH_3$–fenoxi)–oxazol–4–ilo
3076.	2–[o–$N(CH_3)_2$–fenoxi]–oxazol–4–ilo
3077.	2–[m–$N(CH_3)_2$–fenoxi]–oxazol–4–ilo
3078.	2–[p–$N(CH_3)_2$–fenoxi]–oxazol–4–ilo
3079.	2–(2,3–dicianofenoxi)–oxazol–4–ilo
3080.	2–(2,4–dicianofenoxi)–oxazol–4–ilo
3081.	2–(2,5–dicianofenoxi)–oxazol–4–ilo
3082.	2–(2,6–dicianofenoxi)–oxazol–4–ilo
3083.	2–(3,4–dicianofenoxi)–oxazol–4–ilo
3084.	2–(3,5–dicianofenoxi)–oxazol–4–ilo
3085.	2–(2,3–difluorofenoxi)–oxazol–4–ilo
3086.	2–(2,4–difluorofenoxi)–oxazol–4–ilo
3087.	2–(2,5–difluorofenoxi)–oxazol–4–ilo
3088.	2–(2,6–difluorofenoxi)–oxazol–4–ilo
3089.	2–(3,4–difluorofenoxi)–oxazol–4–ilo
3090.	2–(3,5–difluorofenoxi)–oxazol–4–ilo
3091.	2–(2,3–diclorofenoxi)–oxazol–4–ilo
3092.	2–(2,4–diclorofenoxi)–oxazol–4–ilo
3093.	2–(2,5–diclorofenoxi)–oxazol–4–ilo
3094.	2–(2,6–diclorofenoxi)–oxazol–4–ilo
3095.	2–(3,4–diclorofenoxi)–oxazol–4–ilo
3096.	2–(3,5–diclorofenoxi)–oxazol–4–ilo
3097.	2–(2,3–dibromofenoxi)–oxazol–4–ilo
3098.	2–(2,4–dibromofenoxi)–oxazol–4–ilo
3099.	2–(2,5–dibromofenoxi)–oxazol–4–ilo
3100.	2–(2,6–dibromofenoxi)–oxazol–4–ilo
3101.	2–(3,4–dibromofenoxi)–oxazol–4–ilo
3102.	2–(3,5–dibromofenoxi)–oxazol–4–ilo
3103.	2–(2,3–dimetilfenoxi)–oxazol–4–ilo
3104.	2–(2,4–dimetilfenoxi)–oxazol–4–ilo
3105.	2–(2,5–dimetilfenoxi)–oxazol–4–ilo
3106.	2–(2,6–dimetilfenoxi)–oxazol–4–ilo
3107.	2–(3,4–dimetilfenoxi)–oxazol–4–ilo
3108.	2–(3,5–dimetilfenoxi)–oxazol–4–ilo
3109.	2–[2,3–di(trifluorometil)fenoxi]–oxazol–4–ilo
3110.	2–[2,4–di(trifluorometil)fenoxi]–oxazol–4–ilo
3111.	2–[2,5–di(trifluorometil)fenoxi]–oxazol–4–ilo
3112.	2–[2,6–di(trifluorometil)fenoxi]–oxazol–4–ilo
3113.	2–[3,4–di(trifluorometil)fenoxi]–oxazol–4–ilo
3114.	2–[3,5–di(trifluorometil)fenoxi]–oxazol–4–ilo
3115.	2–(2,3–dimetoxifenoxi)–oxazol–4–ilo
3116.	2–(2,4–dimetoxifenoxi)–oxazol–4–ilo
3117.	2–(2,5–dimetoxifenoxi)–oxazol–4–ilo
3118.	2–(2,6–dimetoxifenoxi)–oxazol–4–ilo
3119.	2–(3,4–dimetoxifenoxi)–oxazol–4–ilo
3120.	2–(3,5–dimetoxifenoxi)–oxazol–4–ilo
3121.	2–(o–CN–fenil)–tiazol–4–ilo
3122.	2–(m–CN–fenil)–tiazol–4–ilo

N.º	R^3–A–
3123.	2–(p–CN–fenil)–tiazol–4–ilo
3124.	2–(o–NO_2–fenil)–tiazol–4–ilo
3125.	2–(m–NO_2–fenil)–tiazol–4–ilo
3126.	2–(p–NO_2–fenil)–tiazol–4–ilo
3127.	2–(o–F–fenil)–tiazol–4–ilo
3128.	2–(m–F–fenil)–tiazol–4–ilo
3129.	2–(p–F–fenil)–tiazol–4–ilo
3130.	2–(o–Cl–fenil)–tiazol–4–ilo
3131.	2–(m–Cl–fenil)–tiazol–4–ilo
3132.	2–(p–Cl–fenil)–tiazol–4–ilo
3133.	2–(o–Br–fenil)–tiazol–4–ilo
3134.	2–(m–Br–fenil)–tiazol–4–ilo
3135.	2–(p–Br–fenil)–tiazol–4–ilo
3136.	2–(o–CH_3–fenil)–tiazol–4–ilo
3137.	2–(m–CH_3–fenil)–tiazol–4–ilo
3138.	2–(p–CH_3–fenil)–tiazol–4–ilo
3139.	2–(o–CF_3–fenil)–tiazol–4–ilo
3140.	2–(m–CF_3–fenil)–tiazol–4–ilo
3141.	2–(p–CF_3–fenil)–tiazol–4–ilo
3142.	2–(o–CF_3–fenil)–tiazol–4–ilo
3143.	2–(m–CF_3–fenil)–tiazol–4–ilo
3144.	2–(p–CF_3–fenil)–tiazol–4–ilo
3145.	2–(o–OCH_3–fenil)–tiazol–4–ilo
3146.	2–(m–OCH_3–fenil)–tiazol–4–ilo
3147.	2–(p–OCH_3–fenil)–tiazol–4–ilo
3148.	2–(o–OCF_3–fenil)–tiazol–4–ilo
3149.	2–(m–OCF_3–fenil)–tiazol–4–ilo
3150.	2–(p–OCF_3–fenil)–tiazol–4–ilo
3151.	2–(o–$COOCH_3$–fenil)–tiazol–4–ilo
3152.	2–(m–$COOCH_3$–fenil)–tiazol–4–ilo
3153.	2–(p–$COOCH_3$–fenil)–tiazol–4–ilo
3154.	2–[o–$N(CH_3)_2$–fenil]–tiazol–4–ilo
3155.	2–[m–$N(CH_3)_2$–fenil]–tiazol–4–ilo
3156.	2–[p–$N(CH_3)_2$–fenil]–tiazol–4–ilo
3157.	2–(2,3–dicianofenil)–tiazol–4–ilo
3158.	2–(2,4–dicianofenil)–tiazol–4–ilo
3159.	2–(2,5–dicianofenil)–tiazol–4–ilo
3160.	2–(2,6–dicianofenil)–tiazol–4–ilo
3161.	2–(3,4–dicianofenil)–tiazol–4–ilo
3162.	2–(3,5–dicianofenil)–tiazol–4–ilo
3163.	2–(2,3–difluorofenil)–tiazol–4–ilo
3164.	2–(2,4–difluorofenil)–tiazol–4–ilo
3165.	2–(2,5–difluorofenil)–tiazol–4–ilo
3166.	2–(2,6–difluorofenil)–tiazol–4–ilo
3167.	2–(3,4–difluorofenil)–tiazol–4–ilo
3168.	2–(3,5–difluorofenil)–tiazol–4–ilo
3169.	2–(2,3–diclorofenil)–tiazol–4–ilo
3170.	2–(2,4–diclorofenil)–tiazol–4–ilo
3171.	2–(2,5–diclorofenil)–tiazol–4–ilo
3172.	2–(2,6–diclorofenil)–tiazol–4–ilo
3173.	2–(3,4–diclorofenil)–tiazol–4–ilo
3174.	2–(3,5–diclorofenil)–tiazol–4–ilo
3175.	2–(2,3–dibromofenil)–tiazol–4–ilo
3176.	2–(2,4–dibromofenil)–tiazol–4–ilo
3177.	2–(2,5–dibromofenil)–tiazol–4–ilo
3178.	2–(2,6–dibromofenil)–tiazol–4–ilo
3179.	2–(3,4–dibromofenil)–tiazol–4–ilo
3180.	2–(3,5–dibromofenil)–tiazol–4–ilo

N.º	R^3–A–
3181.	2–(2,3–dimetilfenil)–tiazol–4–ilo
3182.	2–(2,4–dimetilfenil)–tiazol–4–ilo
3183.	2–(2,5–dimetilfenil)–tiazol–4–ilo
3184.	2–(2,6–dimetilfenil)–tiazol–4–ilo
3185.	2–(3,4–dimetilfenil)–tiazol–4–ilo
3186.	2–(3,5–dimetilfenil)–tiazol–4–ilo
3187.	2–[2,3–di(trifluorometil)fenil]–tiazol–4–ilo
3188.	2–[2,4–di(trifluorometil)fenil]–tiazol–4–ilo
3189.	2–[2,5–di(trifluorometil)fenil]–tiazol–4–ilo
3190.	2–[2,6–di(trifluorometil)fenil]–tiazol–4–ilo
3191.	2–[3,4–di(trifluorometil)fenil]–tiazol–4–ilo
3192.	2–[3,5–di(trifluorometil)fenil]–tiazol–4–ilo
3193.	2–(2,3–dimetoxifenil)–tiazol–4–ilo
3194.	2–(2,4–dimetoxifenil)–tiazol–4–ilo
3195.	2–(2,5–dimetoxifenil)–tiazol–4–ilo
3196.	2–(2,6–dimetoxifenil)–tiazol–4–ilo
3197.	2–(3,4–dimetoxifenil)–tiazol–4–ilo
3198.	2–(3,5–dimetoxifenil)–tiazol–4–ilo
3199.	2–(o–CN–fenoxi)–tiazol–4–ilo
3200.	2–(m–CN–fenoxi)–tiazol–4–ilo
3201.	2–(p–CN–fenoxi)–tiazol–4–ilo
3202.	2–(o–NO_2–fenoxi)–tiazol–4–ilo
3203.	2–(m–NO_2–fenoxi)–tiazol–4–ilo
3204.	2–(p–NO_2–fenoxi)–tiazol–4–ilo
3205.	2–(o–F–fenoxi)–tiazol–4–ilo
3206.	2–(m–F–fenoxi)–tiazol–4–ilo
3207.	2–(p–F–fenoxi)–tiazol–4–ilo
3208.	2–(o–Cl–fenoxi)–tiazol–4–ilo
3209.	2–(m–Cl–fenoxi)–tiazol–4–ilo
3210.	2–(p–Cl–fenoxi)–tiazol–4–ilo
3211.	2–(o–Br–fenoxi)–tiazol–4–ilo
3212.	2–(m–Br–fenoxi)–tiazol–4–ilo
3213.	2–(p–Br–fenoxi)–tiazol–4–ilo
3214.	2–(o–CH_3–fenoxi)–tiazol–4–ilo
3215.	2–(m–CH_3–fenoxi)–tiazol–4–ilo
3216.	2–(p–CH_3–fenoxi)–tiazol–4–ilo
3217.	2–(o–CF_3–fenoxi)–tiazol–4–ilo
3218.	2–(m–CF_3–fenoxi)–tiazol–4–ilo
3219.	2–(p–CF_3–fenoxi)–tiazol–4–ilo
3220.	2–(o–CF_3–fenoxi)–tiazol–4–ilo
3221.	2–(m–CF_3–fenoxi)–tiazol–4–ilo
3222.	2–(p–CF_3–fenoxi)–tiazol–4–ilo
3223.	2–(o–OCH_3–fenoxi)–tiazol–4–ilo
3224.	2–(m–OCH_3–fenoxi)–tiazol–4–ilo
3225.	2–(p–OCH_3–fenoxi)–tiazol–4–ilo
3226.	2–(o–OCF_3–fenoxi)–tiazol–4–ilo
3227.	2–(m–OCF_3–fenoxi)–tiazol–4–ilo
3228.	2–(p–OCF_3–fenoxi)–tiazol–4–ilo
3229.	2–(o–$COOCH_3$–fenoxi)–tiazol–4–ilo
3230.	2–(m–$COOCH_3$–fenoxi)–tiazol–4–ilo
3231.	2–(p–$COOCH_3$–fenoxi)–tiazol–4–ilo
3232.	2–[o–$N(CH_3)_2$–fenoxi]–tiazol–4–ilo
3233.	2–[m–$N(CH_3)_2$–fenoxi]–tiazol–4–ilo
3234.	2–[p–$N(CH_3)_2$–fenoxi]–tiazol–4–ilo
3235.	2–(2,3–dicianofenoxi)–tiazol–4–ilo
3236.	2–(2,4–dicianofenoxi)–tiazol–4–ilo
3237.	2–(2,5–dicianofenoxi)–tiazol–4–ilo
3238.	2–(2,6–dicianofenoxi)–tiazol–4–ilo

N.º	R^3–A–
3239.	2–(3,4–dicianofenoxi)–tiazol–4–ilo
3240.	2–(3,5–dicianofenoxi)–tiazol–4–ilo
3241.	2–(2,3–difluorofenoxi)–tiazol–4–ilo
3242.	2–(2,4–difluorofenoxi)–tiazol–4–ilo
3243.	2–(2,5–difluorofenoxi)–tiazol–4–ilo
3244.	2–(2,6–difluorofenoxi)–tiazol–4–ilo
3245.	2–(3,4–difluorofenoxi)–tiazol–4–ilo
3246.	2–(3,5–difluorofenoxi)–tiazol–4–ilo
3247.	2–(2,3–diclorofenoxi)–tiazol–4–ilo
3248.	2–(2,4–diclorofenoxi)–tiazol–4–ilo
3249.	2–(2,5–diclorofenoxi)–tiazol–4–ilo
3250.	2–(2,6–diclorofenoxi)–tiazol–4–ilo
3251.	2–(3,4–diclorofenoxi)–tiazol–4–ilo
3252.	2–(3,5–diclorofenoxi)–tiazol–4–ilo
3253.	2–(2,3–dibromofenoxi)–tiazol–4–ilo
3254.	2–(2,4–dibromofenoxi)–tiazol–4–ilo
3255.	2–(2,5–dibromofenoxi)–tiazol–4–ilo
3256.	2–(2,6–dibromofenoxi)–tiazol–4–ilo
3257.	2–(3,4–dibromofenoxi)–tiazol–4–ilo
3258.	2–(3,5–dibromofenoxi)–tiazol–4–ilo
3259.	2–(2,3–dimetilfenoxi)–tiazol–4–ilo
3260.	2–(2,4–dimetilfenoxi)–tiazol–4–ilo
3261.	2–(2,5–dimetilfenoxi)–tiazol–4–ilo
3262.	2–(2,6–dimetilfenoxi)–tiazol–4–ilo
3263.	2–(3,4–dimetilfenoxi)–tiazol–4–ilo
3264.	2–(3,5–dimetilfenoxi)–tiazol–4–ilo
3265.	2–[2,3–di(trifluorometil)fenoxi]–tiazol–4–ilo
3266.	2–[2,4–di(trifluorometil)fenoxi]–tiazol–4–ilo
3267.	2–[2,5–di(trifluorometil)fenoxi]–tiazol–4–ilo
3268.	2–[2,6–di(trifluorometil)fenoxi]–tiazol–4–ilo
3269.	2–[3,4–di(trifluorometil)fenoxi]–tiazol–4–ilo
3270.	2–[3,5–di(trifluorometil)fenoxi]–tiazol–4–ilo
3271.	2–(2,3–dimetoxifenoxi)–tiazol–4–ilo
3272.	2–(2,4–dimetoxifenoxi)–tiazol–4–ilo
3273.	2–(2,5–dimetoxifenoxi)–tiazol–4–ilo
3274.	2–(2,6–dimetoxifenoxi)–tiazol–4–ilo
3275.	2–(3,4–dimetoxifenoxi)–tiazol–4–ilo
3276.	2–(3,5–dimetoxifenoxi)–tiazol–4–ilo
3277.	1–(o–CN–fenil)–1H–pirrol–3–ilo
3278.	1–(m–CN–fenil)–1H–pirrol–3–ilo
3279.	1–(p–CN–fenil)–1H–pirrol–3–ilo
3280.	1–(o–NO_2–fenil)–1H–pirrol–3–ilo
3281.	1–(m–NO_2–fenil)–1H–pirrol–3–ilo
3282.	1–(p–NO_2–fenil)–1H–pirrol–3–ilo
3283.	1–(o–F–fenil)–1H–pirrol–3–ilo
3284.	1–(m–F–fenil)–1H–pirrol–3–ilo
3285.	1–(p–F–fenil)–1H–pirrol–3–ilo
3286.	1–(o–Cl–fenil)–1H–pirrol–3–ilo
3287.	1–(m–Cl–fenil)–1H–pirrol–3–ilo
3288.	1–(p–Cl–fenil)–1H–pirrol–3–ilo
3289.	1–(o–Br–fenil)–1H–pirrol–3–ilo
3290.	1–(m–Br–fenil)–1H–pirrol–3–ilo

N.º	R^3–A–
3291.	1–(p–Br–fenil)–1H–pirrol–3–ilo
3292.	1–(o–CH_3–fenil)–1H–pirrol–3–ilo
3293.	1–(m–CH_3–fenil)–1H–pirrol–3–ilo
3294.	1–(p–CH_3–fenil)–1H–pirrol–3–ilo
3295.	1–(o–CF_3–fenil)–1H–pirrol–3–ilo
3296.	1–(m–CF_3–fenil)–1H–pirrol–3–ilo
3297.	1–(p–CF_3–fenil)–1H–pirrol–3–ilo
3298.	1–(o–CF_3–fenil)–1H–pirrol–3–ilo
3299.	1–(m–CF_3–fenil)–1H–pirrol–3–ilo
3300.	1–(p–CF_3–fenil)–1H–pirrol–3–ilo
3301.	1–(o–OCH_3–fenil)–1H–pirrol–3–ilo
3302.	1–(m–OCH_3–fenil)–1H–pirrol–3–ilo
3303.	1–(p–OCH_3–fenil)–1H–pirrol–3–ilo
3304.	1–(o–OCF_3–fenil)–1H–pirrol–3–ilo
3305.	1–(m–OCF_3–fenil)–1H–pirrol–3–ilo
3306.	1–(p–OCF_3–fenil)–1H–pirrol–3–ilo
3307.	1–(o–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3308.	1–(m–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3309.	1–(p–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3310.	1–[o–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3311.	1–[m–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3312.	1–[p–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3313.	1–(2,3–dicianofenil)–1H–pirrol–3–ilo
3314.	1–(2,4–dicianofenil)–1H–pirrol–3–ilo
3315.	1–(2,5–dicianofenil)–1H–pirrol–3–ilo
3316.	1–(2,6–dicianofenil)–1H–pirrol–3–ilo
3317.	1–(3,4–dicianofenil)–1H–pirrol–3–ilo
3318.	1–(3,5–dicianofenil)–1H–pirrol–3–ilo
3319.	1–(2,3–difluorofenil)–1H–pirrol–3–ilo
3320.	1–(2,4–difluorofenil)–1H–pirrol–3–ilo
3321.	1–(2,5–difluorofenil)–1H–pirrol–3–ilo
3322.	1–(2,6–difluorofenil)–1H–pirrol–3–ilo
3323.	1–(3,4–difluorofenil)–1H–pirrol–3–ilo
3324.	1–(3,5–difluorofenil)–1H–pirrol–3–ilo
3325.	1–(2,3–diclorofenil)–1H–pirrol–3–ilo
3326.	1–(2,4–diclorofenil)–1H–pirrol–3–ilo
3327.	1–(2,5–diclorofenil)–1H–pirrol–3–ilo
3328.	1–(2,6–diclorofenil)–1H–pirrol–3–ilo
3329.	1–(3,4–diclorofenil)–1H–pirrol–3–ilo
3330.	1–(3,5–diclorofenil)–1H–pirrol–3–ilo
3331.	1–(2,3–dibromofenil)–1H–pirrol–3–ilo
3332.	1–(2,4–dibromofenil)–1H–pirrol–3–ilo
3333.	1–(2,5–dibromofenil)–1H–pirrol–3–ilo
3334.	1–(2,6–dibromofenil)–1H–pirrol–3–ilo
3335.	1–(3,4–dibromofenil)–1H–pirrol–3–ilo
3336.	1–(3,5–dibromofenil)–1H–pirrol–3–ilo
3337.	1–(2,3–dimetilfenil)–1H–pirrol–3–ilo
3338.	1–(2,4–dimetilfenil)–1H–pirrol–3–ilo
3339.	1–(2,5–dimetilfenil)–1H–pirrol–3–ilo
3340.	1–(2,6–dimetilfenil)–1H–pirrol–3–ilo
3341.	1–(3,4–dimetilfenil)–1H–pirrol–3–ilo
3342.	1–(3,5–dimetilfenil)–1H–pirrol–3–ilo
3343.	1–[2,3–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3344.	1–[2,4–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3345.	1–[2,5–di(trifluorometil)fenil]–1H–pirrol–3–ilo

N.º	R^3–A–
3346.	1–[2,6–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3347.	1–[3,4–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3348.	1–[3,5–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3349.	1–(2,3–dimetoxifenil)–1H–pirrol–3–ilo
3350.	1–(2,4–dimetoxifenil)–1H–pirrol–3–ilo
3351.	1–(2,5–dimetoxifenil)–1H–pirrol–3–ilo
3352.	1–(2,6–dimetoxifenil)–1H–pirrol–3–ilo
3353.	1–(3,4–dimetoxifenil)–1H–pirrol–3–ilo
3354.	1–(3,5–dimetoxifenil)–1H–pirrol–3–ilo
3355.	1–(o–CN–fenoxi)–1H–pirrol–3–ilo
3356.	1–(m–CN–fenoxi)–1H–pirrol–3–ilo
3357.	1–(p–CN–fenoxi)–1H–pirrol–3–ilo
3358.	1–(o–NO_2–fenoxi)–1H–pirrol–3–ilo
3359.	1–(m–NO_2–fenoxi)–1H–pirrol–3–ilo
3360.	1–(p–NO_2–fenoxi)–1H–pirrol–3–ilo
3361.	1–(o–F–fenoxi)–1H–pirrol–3–ilo
3362.	1–(m–F–fenoxi)–1H–pirrol–3–ilo
3363.	1–(p–F–fenoxi)–1H–pirrol–3–ilo
3364.	1–(o–Cl–fenoxi)–1H–pirrol–3–ilo
3365.	1–(m–Cl–fenoxi)–1H–pirrol–3–ilo
3366.	1–(p–Cl–fenoxi)–1H–pirrol–3–ilo
3367.	1–(o–Br–fenoxi)–1H–pirrol–3–ilo
3368.	1–(m–Br–fenoxi)–1H–pirrol–3–ilo
3369.	1–(p–Br–fenoxi)–1H–pirrol–3–ilo
3370.	1–(o–CH_3–fenoxi)–1H–pirrol–3–ilo
3371.	1–(m–CH_3–fenoxi)–1H–pirrol–3–ilo
3372.	1–(p–CH_3–fenoxi)–1H–pirrol–3–ilo
3373.	1–(o–CF_3–fenoxi)–1H–pirrol–3–ilo
3374.	1–(m–CF_3–fenoxi)–1H–pirrol–3–ilo
3375.	1–(p–CF_3–fenoxi)–1H–pirrol–3–ilo
3376.	1–(o–CF_3–fenoxi)–1H–pirrol–3–ilo
3377.	1–(m–CF_3–fenoxi)–1H–pirrol–3–ilo
3378.	1–(p–CF_3–fenoxi)–1H–pirrol–3–ilo
3379.	1–(o–OCH_3–fenoxi)–1H–pirrol–3–ilo
3380.	1–(m–OCH_3–fenoxi)–1H–pirrol–3–ilo
3381.	1–(p–OCH_3–fenoxi)–1H–pirrol–3–ilo
3382.	1–(o–OCF_3–fenoxi)–1H–pirrol–3–ilo
3383.	1–(m–OCF_3–fenoxi)–1H–pirrol–3–ilo
3384.	1–(p–OCF_3–fenoxi)–1H–pirrol–3–ilo
3385.	1–(o–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3386.	1–(m–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3387.	1–(p–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3388.	1–[o–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3389.	1–[m–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3390.	1–[p–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3391.	1–(2,3–dicianofenoxi)–1H–pirrol–3–ilo
3392.	1–(2,4–dicianofenoxi)–1H–pirrol–3–ilo
3393.	1–(2,5–dicianofenoxi)–1H–pirrol–3–ilo
3394.	1–(2,6–dicianofenoxi)–1H–pirrol–3–ilo
3395.	1–(3,4–dicianofenoxi)–1H–pirrol–3–ilo
3396.	1–(3,5–dicianofenoxi)–1H–pirrol–3–ilo
3397.	1–(2,3–difluorofenoxi)–1H–pirrol–3–ilo
3398.	1–(2,4–difluorofenoxi)–1H–pirrol–3–ilo
3399.	1–(2,5–difluorofenoxi)–1H–pirrol–3–ilo
3400.	1–(2,6–difluorofenoxi)–1H–pirrol–3–ilo

N.º	R^3–A–
3401.	1–(3,4–difluorofenoxi)–1H–pirrol–3–ilo
3402.	1–(3,5–difluorofenoxi)–1H–pirrol–3–ilo
3403.	1–(2,3–diclorofenoxi)–1H–pirrol–3–ilo
3404.	1–(2,4–diclorofenoxi)–1H–pirrol–3–ilo
3405.	1–(2,5–diclorofenoxi)–1H–pirrol–3–ilo
3406.	1–(2,6–diclorofenoxi)–1H–pirrol–3–ilo
3407.	1–(3,4–diclorofenoxi)–1H–pirrol–3–ilo
3408.	1–(3,5–diclorofenoxi)–1H–pirrol–3–ilo
3409.	1–(2,3–dibromofenoxi)–1H–pirrol–3–ilo
3410.	1–(2,4–dibromofenoxi)–1H–pirrol–3–ilo
3411.	1–(2,5–dibromofenoxi)–1H–pirrol–3–ilo
3412.	1–(2,6–dibromofenoxi)–1H–pirrol–3–ilo
3413.	1–(3,4–dibromofenoxi)–1H–pirrol–3–ilo
3414.	1–(3,5–dibromofenoxi)–1H–pirrol–3–ilo
3415.	1–(2,3–dimetilfenoxi)–1H–pirrol–3–ilo
3416.	1–(2,4–dimetilfenoxi)–1H–pirrol–3–ilo
3417.	1–(2,5–dimetilfenoxi)–1H–pirrol–3–ilo
3418.	1–(2,6–dimetilfenoxi)–1H–pirrol–3–ilo
3419.	1–(3,4–dimetilfenoxi)–1H–pirrol–3–ilo
3420.	1–(3,5–dimetilfenoxi)–1H–pirrol–3–ilo
3421.	1–[2,3–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3422.	1–[2,4–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3423.	1–[2,5–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3424.	1–[2,6–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3425.	1–[3,4–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3426.	1–[3,5–di(trifluorometil)fenoxi]–1H–pirrol–3–ilo
3427.	1–(2,3–dimetoxifenoxi)–1H–pirrol–3–ilo
3428.	1–(2,4–dimetoxifenoxi)–1H–pirrol–3–ilo
3429.	1–(2,5–dimetoxifenoxi)–1H–pirrol–3–ilo
3430.	1–(2,6–dimetoxifenoxi)–1H–pirrol–3–ilo
3431.	1–(3,4–dimetoxifenoxi)–1H–pirrol–3–ilo
3432.	1–(3,5–dimetoxifenoxi)–1H–pirrol–3–ilo
3433.	1–metil–5–(o–CN–fenil)–1H–pirrol–3–ilo
3434.	1–metil–5–(m–CN–fenil)–1H–pirrol–3–ilo
3435.	1–metil–5–(p–CN–fenil)–1H–pirrol–3–ilo
3436.	1–metil–5–(o–NO_2–fenil)–1H–pirrol–3–ilo
3437.	1–metil–5–(m–NO_2–fenil)–1H–pirrol–3–ilo
3438.	1–metil–5–(p–NO_2–fenil)–1H–pirrol–3–ilo
3439.	1–metil–5–(o–F–fenil)–1H–pirrol–3–ilo
3440.	1–metil–5–(m–F–fenil)–1H–pirrol–3–ilo
3441.	1–metil–5–(p–F–fenil)–1H–pirrol–3–ilo
3442.	1–metil–5–(o–Cl–fenil)–1H–pirrol–3–ilo
3443.	1–metil–5–(m–Cl–fenil)–1H–pirrol–3–ilo
3444.	1–metil–5–(p–Cl–fenil)–1H–pirrol–3–ilo
3445.	1–metil–5–(o–Br–fenil)–1H–pirrol–3–ilo
3446.	1–metil–5–(m–Br–fenil)–1H–pirrol–3–ilo
3447.	1–metil–5–(p–Br–fenil)–1H–pirrol–3–ilo
3448.	1–metil–5–(o–CH_3–fenil)–1H–pirrol–3–ilo

N.º	R^3–A–
3449.	1–metil–5–(m–CH_3–fenil)–1H–pirrol–3–ilo
3450.	1–metil–5–(p–CH_3–fenil)–1H–pirrol–3–ilo
3451.	1–metil–5–(o–CF_3–fenil)–1H–pirrol–3–ilo
3452.	1–metil–5–(m–CF_3–fenil)–1H–pirrol–3–ilo
3453.	1–metil–5–(p–CF_3–fenil)–1H–pirrol–3–ilo
3454.	1–metil–5–(o–CF_3–fenil)–1H–pirrol–3–ilo
3455.	1–metil–5–(m–CF_3–fenil)–1H–pirrol–3–ilo
3456.	1–metil–5–(p–CF_3–fenil)–1H–pirrol–3–ilo
3457.	1–metil–5–(o–OCH_3–fenil)–1H–pirrol–3–ilo
3458.	1–metil–5–(m–OCH_3–fenil)–1H–pirrol–3–ilo
3459.	1–metil–5–(p–OCH_3–fenil)–1H–pirrol–3–ilo
3460.	1–metil–5–(o–OCF_3–fenil)–1H–pirrol–3–ilo
3461.	1–metil–5–(m–OCF_3–fenil)–1H–pirrol–3–ilo
3462.	1–metil–5–(p–OCF_3–fenil)–1H–pirrol–3–ilo
3463.	1–metil–5–(o–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3464.	1–metil–5–(m–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3465.	1–metil–5–(p–$COOCH_3$–fenil)–1H–pirrol–3–ilo
3466.	1–metil–5–[o–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3467.	1–metil–5–[m–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3468.	1–metil–5–[p–$N(CH_3)_2$–fenil]–1H–pirrol–3–ilo
3469.	1–metil–5–(2,3–dicianofenil)–1H–pirrol–3–ilo
3470.	1–metil–5–(2,4–dicianofenil)–1H–pirrol–3–ilo
3471.	1–metil–5–(2,5–dicianofenil)–1H–pirrol–3–ilo
3472.	1–metil–5–(2,6–dicianofenil)–1H–pirrol–3–ilo
3473.	1–metil–5–(3,4–dicianofenil)–1H–pirrol–3–ilo
3474.	1–metil–5–(3,5–dicianofenil)–1H–pirrol–3–ilo
3475.	1–metil–5–(2,3–difluorofenil)–1H–pirrol–3–ilo
3476.	1–metil–5–(2,4–difluorofenil)–1H–pirrol–3–ilo
3477.	1–metil–5–(2,5–difluorofenil)–1H–pirrol–3–ilo

N.º	R^3–A–
3478.	1–metil–5–(2,6–difluorofenil)–1H–pirrol–3–ilo
3479.	1–metil–5–(3,4–difluorofenil)–1H–pirrol–3–ilo
3480.	1–metil–5–(3,5–difluorofenil)–1H–pirrol–3–ilo
3481.	1–metil–5–(2,3–diclorofenil)–1H–pirrol–3–ilo
3482.	1–metil–5–(2,4–diclorofenil)–1H–pirrol–3–ilo
3483.	1–metil–5–(2,5–diclorofenil)–1H–pirrol–3–ilo
3484.	1–metil–5–(2,6–diclorofenil)–1H–pirrol–3–ilo
3485.	1–metil–5–(3,4–diclorofenil)–1H–pirrol–3–ilo
3486.	1–metil–5–(3,5–diclorofenil)–1H–pirrol–3–ilo
3487.	1–metil–5–(2,3–dibromofenil)–1H–pirrol–3–ilo
3488.	1–metil–5–(2,4–dibromofenil)–1H–pirrol–3–ilo
3489.	1–metil–5–(2,5–dibromofenil)–1H–pirrol–3–ilo
3490.	1–metil–5–(2,6–dibromofenil)–1H–pirrol–3–ilo
3491.	1–metil–5–(3,4–dibromofenil)–1H–pirrol–3–ilo
3492.	1–metil–5–(3,5–dibromofenil)–1H–pirrol–3–ilo
3493.	1–metil–5–(2,3–dimetilfenil)–1H–pirrol–3–ilo
3494.	1–metil–5–(2,4–dimetilfenil)–1H–pirrol–3–ilo
3495.	1–metil–5–(2,5–dimetilfenil)–1H–pirrol–3–ilo
3496.	1–metil–5–(2,6–dimetilfenil)–1H–pirrol–3–ilo
3497.	1–metil–5–(3,4–dimetilfenil)–1H–pirrol–3–ilo
3498.	1–metil–5–(3,5–dimetilfenil)–1H–pirrol–3–ilo
3499.	1–metil–5–[2,3–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3500.	1–metil–5–[2,4–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3501.	1–metil–5–[2,5–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3502.	1–metil–5–[2,6–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3503.	1–metil–5–[3,4–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3504.	1–metil–5–[3,5–di(trifluorometil)fenil]–1H–pirrol–3–ilo
3505.	1–metil–5–(2,3–dimetoxifenil)–1H–pirrol–3–ilo
3506.	1–metil–5–(2,4–dimetoxifenil)–1H–pirrol–3–ilo

N.º	R^3–A–
3507.	1–metil–5–(2,5–dimetoxifenil)–1H–pirrol–3–ilo
3508.	1–metil–5–(2,6–dimetoxifenil)–1H–pirrol–3–ilo
3509.	1–metil–5–(3,4–dimetoxifenil)–1H–pirrol–3–ilo
3510.	1–metil–5–(3,5–dimetoxifenil)–1H–pirrol–3–ilo
3511.	1–metil–5–(o–CN–fenoxi)–1H–pirrol–3–ilo
3512.	1–metil–5–(m–CN–fenoxi)–1H–pirrol–3–ilo
3513.	1–metil–5–(p–CN–fenoxi)–1H–pirrol–3–ilo
3514.	1–metil–5–(o–NO_2–fenoxi)–1H–pirrol–3–ilo
3515.	1–metil–5–(m–NO_2–fenoxi)–1H–pirrol–3–ilo
3516.	1–metil–5–(p–NO_2–fenoxi)–1H–pirrol–3–ilo
3517.	1–metil–5–(o–F–fenoxi)–1H–pirrol–3–ilo
3518.	1–metil–5–(m–F–fenoxi)–1H–pirrol–3–ilo
3519.	1–metil–5–(p–F–fenoxi)–1H–pirrol–3–ilo
3520.	1–metil–5–(o–Cl–fenoxi)–1H–pirrol–3–ilo
3521.	1–metil–5–(m–Cl–fenoxi)–1H–pirrol–3–ilo
3522.	1–metil–5–(p–Cl–fenoxi)–1H–pirrol–3–ilo
3523.	1–metil–5–(o–Br–fenoxi)–1H–pirrol–3–ilo
3524.	1–metil–5–(m–Br–fenoxi)–1H–pirrol–3–ilo
3525.	1–metil–5–(p–Br–fenoxi)–1H–pirrol–3–ilo
3526.	1–metil–5–(o–CH_3–fenoxi)–1H–pirrol–3–ilo
3527.	1–metil–5–(m–CH_3–fenoxi)–1H–pirrol–3–ilo
3528.	1–metil–5–(p–CH_3–fenoxi)–1H–pirrol–3–ilo
3529.	1–metil–5–(o–CF_3–fenoxi)–1H–pirrol–3–ilo
3530.	1–metil–5–(m–CF_3–fenoxi)–1H–pirrol–3–ilo
3531.	1–metil–5–(p–CF_3–fenoxi)–1H–pirrol–3–ilo
3532.	1–metil–5–(o–CF_3–fenoxi)–1H–pirrol–3–ilo
3533.	1–metil–5–(m–CF_3–fenoxi)–1H–pirrol–3–ilo
3534.	1–metil–5–(p–CF_3–fenoxi)–1H–pirrol–3–ilo
3535.	1–metil–5–(o–OCH_3–fenoxi)–1H–pirrol–3–ilo

N.º	R^3–A–
3536.	1–metil–5–(m–OCH_3–fenoxi)–1H–pirrol–3–ilo
3537.	1–metil–5–(p–OCH_3–fenoxi)–1H–pirrol–3–ilo
3538.	1–metil–5–(o–OCF_3–fenoxi)–1H–pirrol–3–ilo
3539.	1–metil–5–(m–OCF_3–fenoxi)–1H–pirrol–3–ilo
3540.	1–metil–5–(p–OCF_3–fenoxi)–1H–pirrol–3–ilo
3541.	1–metil–5–(o–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3542.	1–metil–5–(m–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3543.	1–metil–5–(p–$COOCH_3$–fenoxi)–1H–pirrol–3–ilo
3544.	1–metil–5–[o–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3545.	1–metil–5–[m–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3546.	1–metil–5–[p–$N(CH_3)_2$–fenoxi]–1H–pirrol–3–ilo
3547.	1–metil–5–(2,3–dicianofenoxi)–1H–pirrol–3–ilo
3548.	1–metil–5–(2,4–dicianofenoxi)–1H–pirrol–3–ilo
3549.	1–metil–5–(2,5–dicianofenoxi)–1H–pirrol–3–ilo
3550.	1–metil–5–(2,6–dicianofenoxi)–1H–pirrol–3–ilo
3551.	1–metil–5–(3,4–dicianofenoxi)–1H–pirrol–3–ilo
3552.	1–metil–5–(3,5–dicianofenoxi)–1H–pirrol–3–ilo
3553.	1–metil–5–(2,3–difluorofenoxi)–1H–pirrol–3–ilo
3554.	1–metil–5–(2,4–difluorofenoxi)–1H–pirrol–3–ilo
3555.	1–metil–5–(2,5–difluorofenoxi)–1H–pirrol–3–ilo
3556.	1–metil–5–(2,6–difluorofenoxi)–1H–pirrol–3–ilo
3557.	1–metil–5–(3,4–difluorofenoxi)–1H–pirrol–3–ilo
3558.	1–metil–5–(3,5–difluorofenoxi)–1H–pirrol–3–ilo
3559.	1–metil–5–(2,3–diclorofenoxi)–1H–pirrol–3–ilo
3560.	1–metil–5–(2,4–diclorofenoxi)–1H–pirrol–3–ilo
3561.	1–metil–5–(2,5–diclorofenoxi)–1H–pirrol–3–ilo
3562.	1–metil–5–(2,6–diclorofenoxi)–1H–pirrol–3–ilo
3563.	1–metil–5–(3,4–diclorofenoxi)–1H–pirrol–3–ilo
3564.	1–metil–5–(3,5–diclorofenoxi)–1H–pirrol–3–ilo

N.º	R^3–A–
3565.	1–metil–5–(2,3–dibromofenoxi)–1H–pirrol–3–ilo
3566.	1–metil–5–(2,4–dibromofenoxi)–1H–pirrol–3–ilo
3567.	1–metil–5–(2,5–dibromofenoxi)–1H–pirrol–3–ilo
3568.	1–metil–5–(2,6–dibromofenoxi)–1H–pirrol–3–ilo
3569.	1–metil–5–(3,4–dibromofenoxi)–1H–pirrol–3–ilo
3570.	1–metil–5–(3,5–dibromofenoxi)–1H–pirrol–3–ilo
3571.	1–metil–5–(2,3–dimetilfenoxi)–1H–pirrol–3–ilo
3572.	1–metil–5–(2,4–dimetilfenoxi)–1H–pirrol–3–ilo
3573.	1–metil–5–(2,5–dimetilfenoxi)–1H–pirrol–3–ilo
3574.	1–metil–5–(2,6–dimetilfenoxi)–1H–pirrol–3–ilo
3575.	1–metil–5–(3,4–dimetilfenoxi)–1H–pirrol–3–ilo
3576.	1–metil–5–(3,5–dimetilfenoxi)–1H–pirrol–3–ilo
3577.	1–metil–5–[2,3–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3578.	1–metil–5–[2,4–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3579.	1–metil–5–[2,5–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3580.	1–metil–5–[2,6–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3581.	1–metil–5–[3,4–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3582.	1–metil–5–[3,5–di(trifluoro-metil)fenoxi]–1H–pirrol–3–ilo
3583.	1–metil–5–(2,3–dimetoxifenoxi)–1H–pirrol–3–ilo
3584.	1–metil–5–(2,4–dimetoxifenoxi)–1H–pirrol–3–ilo
3585.	1–metil–5–(2,5–dimetoxifenoxi)–1H–pirrol–3–ilo
3586.	1–metil–5–(2,6–dimetoxifenoxi)–1H–pirrol–3–ilo
3587.	1–metil–5–(3,4–dimetoxifenoxi)–1H–pirrol–3–ilo
3588.	1–metil–5–(3,5–dimetoxifenoxi)–1H–pirrol–3–ilo
3589.	1–metil–5–(o–CN–fenil)–1H–pirrol–2–ilo
3590.	1–metil–5–(m–CN–fenil)–1H–pirrol–2–ilo
3591.	1–metil–5–(p–CN–fenil)–1H–pirrol–2–ilo
3592.	1–metil–5–(o–NO_2–fenil)–1H–pirrol–2–ilo
3593.	1–metil–5–(m–NO_2–fenil)–1H–pirrol–2–ilo
3594.	1–metil–5–(p–NO_2–fenil)–1H–pirrol–2–ilo
3595.	1–metil–5–(o–F–fenil)–1H–pirrol–2–ilo
3596.	1–metil–5–(m–F–fenil)–1H–pirrol–2–ilo
3597.	1–metil–5–(p–F–fenil)–1H–pirrol–2–ilo
3598.	1–metil–5–(o–Cl–fenil)–1H–pirrol–2–ilo
3599.	1–metil–5–(m–Cl–fenil)–1H–pirrol–2–ilo
3600.	1–metil–5–(p–Cl–fenil)–1H–pirrol–2–ilo
3601.	1–metil–5–(o–Br–fenil)–1H–pirrol–2–ilo
3602.	1–metil–5–(m–Br–fenil)–1H–pirrol–2–ilo
3603.	1–metil–5–(p–Br–fenil)–1H–pirrol–2–ilo
3604.	1–metil–5–(o–CH_3–fenil)–1H–pirrol–2–ilo
3605.	1–metil–5–(m–CH_3–fenil)–1H–pirrol–2–ilo
3606.	1–metil–5–(p–CH_3–fenil)–1H–pirrol–2–ilo
3607.	1–metil–5–(o–CF_3–fenil)–1H–pirrol–2–ilo
3608.	1–metil–5–(m–CF_3–fenil)–1H–pirrol–2–ilo
3609.	1–metil–5–(p–CF_3–fenil)–1H–pirrol–2–ilo
3610.	1–metil–5–(o–CF_3–fenil)–1H–pirrol–2–ilo
3611.	1–metil–5–(m–CF_3–fenil)–1H–pirrol–2–ilo
3612.	1–metil–5–(p–CF_3–fenil)–1H–pirrol–2–ilo
3613.	1–metil–5–(o–OCH_3–fenil)–1H–pirrol–2–ilo
3614.	1–metil–5–(m–OCH_3–fenil)–1H–pirrol–2–ilo
3615.	1–metil–5–(p–OCH_3–fenil)–1H–pirrol–2–ilo
3616.	1–metil–5–(o–OCF_3–fenil)–1H–pirrol–2–ilo
3617.	1–metil–5–(m–OCF_3–fenil)–1H–pirrol–2–ilo
3618.	1–metil–5–(p–OCF_3–fenil)–1H–pirrol–2–ilo
3619.	1–metil–5–(o–$COOCH_3$–fenil)–1H–pirrol–2–ilo
3620.	1–metil–5–(m–$COOCH_3$–fenil)–1H–pirrol–2–ilo
3621.	1–metil–5–(p–$COOCH_3$–fenil)–1H–pirrol–2–ilo
3622.	1–metil–5–[o–$N(CH_3)_2$–fenil]–1H–pirrol–2–ilo
3623.	1–metil–5–[m–$N(CH_3)_2$–fenil]–1H–pirrol–2–ilo
3624.	1–metil–5–[p–$N(CH_3)_2$–fenil]–1H–pirrol–2–ilo
3625.	1–metil–5–(2,3–dicianofenil)–1H–pirrol–2–ilo
3626.	1–metil–5–(2,4–dicianofenil)–1H–pirrol–2–ilo

N.º	R^3–A–
3627.	1–metil–5–(2,5–dicianofenil)–1H–pirrol–2–ilo
3628.	1–metil–5–(2,6–dicianofenil)–1H–pirrol–2–ilo
3629.	1–metil–5–(3,4–dicianofenil)–1H–pirrol–2–ilo
3630.	1–metil–5–(3,5–dicianofenil)–1H–pirrol–2–ilo
3631.	1–metil–5–(2,3–difluorofenil)–1H–pirrol–2–ilo
3632.	1–metil–5–(2,4–difluorofenil)–1H–pirrol–2–ilo
3633.	1–metil–5–(2,5–difluorofenil)–1H–pirrol–2–ilo
3634.	1–metil–5–(2,6–difluorofenil)–1H–pirrol–2–ilo
3635.	1–metil–5–(3,4–difluorofenil)–1H–pirrol–2–ilo
3636.	1–metil–5–(3,5–difluorofenil)–1H–pirrol–2–ilo
3637.	1–metil–5–(2,3–diclorofenil)–1H–pirrol–2–ilo
3638.	1–metil–5–(2,4–diclorofenil)–1H–pirrol–2–ilo
3639.	1–metil–5–(2,5–diclorofenil)–1H–pirrol–2–ilo
3640.	1–metil–5–(2,6–diclorofenil)–1H–pirrol–2–ilo
3641.	1–metil–5–(3,4–diclorofenil)–1H–pirrol–2–ilo
3642.	1–metil–5–(3,5–diclorofenil)–1H–pirrol–2–ilo
3643.	1–metil–5–(2,3–dibromofenil)–1H–pirrol–2–ilo
3644.	1–metil–5–(2,4–dibromofenil)–1H–pirrol–2–ilo
3645.	1–metil–5–(2,5–dibromofenil)–1H–pirrol–2–ilo
3646.	1–metil–5–(2,6–dibromofenil)–1H–pirrol–2–ilo
3647.	1–metil–5–(3,4–dibromofenil)–1H–pirrol–2–ilo
3648.	1–metil–5–(3,5–dibromofenil)–1H–pirrol–2–ilo
3649.	1–metil–5–(2,3–dimetilfenil)–1H–pirrol–2–ilo
3650.	1–metil–5–(2,4–dimetilfenil)–1H–pirrol–2–ilo
3651.	1–metil–5–(2,5–dimetilfenil)–1H–pirrol–2–ilo
3652.	1–metil–5–(2,6–dimetilfenil)–1H–pirrol–2–ilo
3653.	1–metil–5–(3,4–dimetilfenil)–1H–pirrol–2–ilo
3654.	1–metil–5–(3,5–dimetilfenil)–1H–pirrol–2–ilo
3655.	1–metil–5–[2,3–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3656.	1–metil–5–[2,4–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3657.	1–metil–5–[2,5–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3658.	1–metil–5–[2,6–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3659.	1–metil–5–[3,4–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3660.	1–metil–5–[3,5–di(trifluorometil)fenil]–1H–pirrol–2–ilo
3661.	1–metil–5–(2,3–dimetoxifenil)–1H–pirrol–2–ilo
3662.	1–metil–5–(2,4–dimetoxifenil)–1H–pirrol–2–ilo
3663.	1–metil–5–(2,5–dimetoxifenil)–1H–pirrol–2–ilo
3664.	1–metil–5–(2,6–dimetoxifenil)–1H–pirrol–2–ilo
3665.	1–metil–5–(3,4–dimetoxifenil)–1H–pirrol–2–ilo
3666.	1–metil–5–(3,5–dimetoxifenil)–1H–pirrol–2–ilo
3667.	1–metil–5–(o–CN–fenoxi)–1H–pirrol–2–ilo
3668.	1–metil–5–(m–CN–fenoxi)–1H–pirrol–2–ilo
3669.	1–metil–5–(p–CN–fenoxi)–1H–pirrol–2–ilo
3670.	1–metil–5–(o–NO_2–fenoxi)–1H–pirrol–2–ilo
3671.	1–metil–5–(m–NO_2–fenoxi)–1H–pirrol–2–ilo
3672.	1–metil–5–(p–NO_2–fenoxi)–1H–pirrol–2–ilo
3673.	1–metil–5–(o–F–fenoxi)–1H–pirrol–2–ilo
3674.	1–metil–5–(m–F–fenoxi)–1H–pirrol–2–ilo
3675.	1–metil–5–(p–F–fenoxi)–1H–pirrol–2–ilo
3676.	1–metil–5–(o–Cl–fenoxi)–1H–pirrol–2–ilo
3677.	1–metil–5–(m–Cl–fenoxi)–1H–pirrol–2–ilo
3678.	1–metil–5–(p–Cl–fenoxi)–1H–pirrol–2–ilo
3679.	1–metil–5–(o–Br–fenoxi)–1H–pirrol–2–ilo
3680.	1–metil–5–(m–Br–fenoxi)–1H–pirrol–2–ilo
3681.	1–metil–5–(p–Br–fenoxi)–1H–pirrol–2–ilo
3682.	1–metil–5–(o–CH_3–fenoxi)–1H–pirrol–2–ilo
3683.	1–metil–5–(m–CH_3–fenoxi)–1H–pirrol–2–ilo
3684.	1–metil–5–(p–CH_3–fenoxi)–1H–pirrol–2–ilo

N.º	R^3–A–
3685.	1–metil–5–(o–CF_3–fenoxi)–1H–pirrol–2–ilo
3686.	1–metil–5–(m–CF_3–fenoxi)–1H–pirrol–2–ilo
3687.	1–metil–5–(p–CF_3–fenoxi)–1H–pirrol–2–ilo
3688.	1–metil–5–(o–CF_3–fenoxi)–1H–pirrol–2–ilo
3689.	1–metil–5–(m–CF_3–fenoxi)–1H–pirrol–2–ilo
3690.	1–metil–5–(p–CF_3–fenoxi)–1H–pirrol–2–ilo
3691.	1–metil–5–(o–OCH_3–fenoxi)–1H–pirrol–2–ilo
3692.	1–metil–5–(m–OCH_3–fenoxi)–1H–pirrol–2–ilo
3693.	1–metil–5–(p–OCH_3–fenoxi)–1H–pirrol–2–ilo
3694.	1–metil–5–(o–OCF_3–fenoxi)–1H–pirrol–2–ilo
3695.	1–metil–5–(m–OCF_3–fenoxi)–1H–pirrol–2–ilo
3696.	1–metil–5–(p–OCF_3–fenoxi)–1H–pirrol–2–ilo
3697.	1–metil–5–(o–$COOCH_3$–fenoxi)–1H–pirrol–2–ilo
3698.	1–metil–5–(m–$COOCH_3$–fenoxi)–1H–pirrol–2–ilo
3699.	1–metil–5–(p–$COOCH_3$–fenoxi)–1H–pirrol–2–ilo
3700.	1–metil–5–[o–$N(CH_3)_2$–fenoxi]–1H–pirrol–2–ilo
3701.	1–metil–5–[m–$N(CH_3)_2$–fenoxi]–1H–pirrol–2–ilo
3702.	1–metil–5–[p–$N(CH_3)_2$–fenoxi]–1H–pirrol–2–ilo
3703.	1–metil–5–(2,3–dicianofenoxi)–1H–pirrol–2–ilo
3704.	1–metil–5–(2,4–dicianofenoxi)–1H–pirrol–2–ilo
3705.	1–metil–5–(2,5–dicianofenoxi)–1H–pirrol–2–ilo
3706.	1–metil–5–(2,6–dicianofenoxi)–1H–pirrol–2–ilo
3707.	1–metil–5–(3,4–dicianofenoxi)–1H–pirrol–2–ilo
3708.	1–metil–5–(3,5–dicianofenoxi)–1H–pirrol–2–ilo
3709.	1–metil–5–(2,3–difluorofenoxi)–1H–pirrol–2–ilo
3710.	1–metil–5–(2,4–difluorofenoxi)–1H–pirrol–2–ilo
3711.	1–metil–5–(2,5–difluorofenoxi)–1H–pirrol–2–ilo
3712.	1–metil–5–(2,6–difluorofenoxi)–1H–pirrol–2–ilo
3713.	1–metil–5–(3,4–difluorofenoxi)–1H–pirrol–2–ilo

N.º	R^3–A–
3714.	1–metil–5–(3,5–difluorofenoxi)–1H–pirrol–2–ilo
3715.	1–metil–5–(2,3–diclorofenoxi)–1H–pirrol–2–ilo
3716.	1–metil–5–(2,4–diclorofenoxi)–1H–pirrol–2–ilo
3717.	1–metil–5–(2,5–diclorofenoxi)–1H–pirrol–2–ilo
3718.	1–metil–5–(2,6–diclorofenoxi)–1H–pirrol–2–ilo
3719.	1–metil–5–(3,4–diclorofenoxi)–1H–pirrol–2–ilo
3720.	1–metil–5–(3,5–diclorofenoxi)–1H–pirrol–2–ilo
3721.	1–metil–5–(2,3–dibromofenoxi)–1H–pirrol–2–ilo
3722.	1–metil–5–(2,4–dibromofenoxi)–1H–pirrol–2–ilo
3723.	1–metil–5–(2,5–dibromofenoxi)–1H–pirrol–2–ilo
3724.	1–metil–5–(2,6–dibromofenoxi)–1H–pirrol–2–ilo
3725.	1–metil–5–(3,4–dibromofenoxi)–1H–pirrol–2–ilo
3726.	1–metil–5–(3,5–dibromofenoxi)–1H–pirrol–2–ilo
3727.	1–metil–5–(2,3–dimetilfenoxi)–1H–pirrol–2–ilo
3728.	1–metil–5–(2,4–dimetilfenoxi)–1H–pirrol–2–ilo
3729.	1–metil–5–(2,5–dimetilfenoxi)–1H–pirrol–2–ilo
3730.	1–metil–5–(2,6–dimetilfenoxi)–1H–pirrol–2–ilo
3731.	1–metil–5–(3,4–dimetilfenoxi)–1H–pirrol–2–ilo
3732.	1–metil–5–(3,5–dimetilfenoxi)–1H–pirrol–2–ilo
3733.	1–metil–5–[2,3–di(trifluorometil)fenoxi]–1H–pirrol–2–ilo
3734.	1–metil–5–[2,4–di(trifluoro-metil)fenoxi]–1H–pirrol–2–ilo
3735.	1–metil–5–[2,5–di(trifluoro-metil)fenoxi]–1H–pirrol–2–ilo
3736.	1–metil–5–[2,6–di(trifluoro-metil)fenoxi]–1H–pirrol–2–ilo
3737.	1–metil–5–[3,4–di(trifluoro-metil)fenoxi]–1H–pirrol–2–ilo
3738.	1–metil–5–[3,5–di(trifluorometil)fenoxi]–1H–pirrol–2–ilo
3739.	1–metil–5–(2,3–dimetoxifenoxi)–1H–pirrol–2–ilo
3740.	1–metil–5–(2,4–dimetoxifenoxi)–1H–pirrol–2–ilo
3741.	1–metil–5–(2,5–dimetoxifenoxi)–1H–pirrol–2–ilo
3742.	1–metil–5–(2,6–dimetoxifenoxi)–1H–pirrol–2–ilo

N.º	R^3–A–
3743.	1–metil–5–(3,4–dimetoxifenoxi)–1H–pirrol–2–ilo
3744.	1–metil–5–(3,5–dimetoxifenoxi)–1H–pirrol–2–ilo
3745.	1–metil–5–(o–CN–fenil)–1H–pirazol–3–ilo
3746.	1–metil–5–(m–CN–fenil)–1H–pirazol–3–ilo
3747.	1–metil–5–(p–CN–fenil)–1H–pirazol–3–ilo
3748.	1–metil–5–(o–NO_2–fenil)–1H–pirazol–3–ilo
3749.	1–metil–5–(m–NO_2–fenil)–1H–pirazol–3–ilo
3750.	1–metil–5–(p–NO_2–fenil)–1H–pirazol–3–ilo
3751.	1–metil–5–(o–F–fenil)–1H–pirazol–3–ilo
3752.	1–metil–5–(m–F–fenil)–1H–pirazol–3–ilo
3753.	1–metil–5–(p–F–fenil)–1H–pirazol–3–ilo
3754.	1–metil–5–(o–Cl–fenil)–1H–pirazol–3–ilo
3755.	1–metil–5–(m–Cl–fenil)–1H–pirazol–3–ilo
3756.	1–metil–5–(p–Cl–fenil)–1H–pirazol–3–ilo
3757.	1–metil–5–(o–Br–fenil)–1H–pirazol–3–ilo
3758.	1–metil–5–(m–Br–fenil)–1H–pirazol–3–ilo
3759.	1–metil–5–(p–Br–fenil)–1H–pirazol–3–ilo
3760.	1–metil–5–(o–CH_3–fenil)–1H–pirazol–3–ilo
3761.	1–metil–5–(m–CH_3–fenil)–1H–pirazol–3–ilo
3762.	1–metil–5–(p–CH_3–fenil)–1H–pirazol–3–ilo
3763.	1–metil–5–(o–CF_3–fenil)–1H–pirazol–3–ilo
3764.	1–metil–5–(m–CF_3–fenil)–1H–pirazol–3–ilo
3765.	1–metil–5–(p–CF_3–fenil)–1H–pirazol–3–ilo
3766.	1–metil–5–(o–CF_3–fenil)–1H–pirazol–3–ilo
3767.	1–metil–5–(m–CF_3–fenil)–1H–pirazol–3–ilo
3768.	1–metil–5–(p–CF_3–fenil)–1H–pirazol–3–ilo
3769.	1–metil–5–(o–OCH_3–fenil)–1H–pirazol–3–ilo
3770.	1–metil–5–(m–OCH_3–fenil)–1H–pirazol–3–ilo
3771.	1–metil–5–(p–OCH_3–fenil)–1H–pirazol–3–ilo

N.º	R^3–A–
3772.	1–metil–5–(o–OCF_3–fenil)–1H–pirazol–3–ilo
3773.	1–metil–5–(m–OCF_3–fenil)–1H–pirazol–3–ilo
3774.	1–metil–5–(p–OCF_3–fenil)–1H–pirazol–3–ilo
3775.	1–metil–5–(o–$COOCH_3$–fenil)–1H–pirazol–3–ilo
3776.	1–metil–5–(m–$COOCH_3$–fenil)–1H–pirazol–3–ilo
3777.	1–metil–5–(p–$COOCH_3$–fenil)–1H–pirazol–3–ilo
3778.	1–metil–5–[o–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
3779.	1–metil–5–[m–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
3780.	1–metil–5–[p–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
3781.	1–metil–5–(2,3–dicianofenil)–1H–pirazol–3–ilo
3782.	1–metil–5–(2,4–dicianofenil)–1H–pirazol–3–ilo
3783.	1–metil–5–(2,5–dicianofenil)–1H–pirazol–3–ilo
3784.	1–metil–5–(2,6–dicianofenil)–1H–pirazol–3–ilo
3785.	1–metil–5–(3,4–dicianofenil)–1H–pirazol–3–ilo
3786.	1–metil–5–(3,5–dicianofenil)–1H–pirazol–3–ilo
3787.	1–metil–5–(2,3–difluorofenil)–1H–pirazol–3–ilo
3788.	1–metil–5–(2,4–difluorofenil)–1H–pirazol–3–ilo
3789.	1–metil–5–(2,5–difluorofenil)–1H–pirazol–3–ilo
3790.	1–metil–5–(2,6–difluorofenil)–1H–pirazol–3–ilo
3791.	1–metil–5–(3,4–difluorofenil)–1H–pirazol–3–ilo
3792.	1–metil–5–(3,5–difluorofenil)–1H–pirazol–3–ilo
3793.	1–metil–5–(2,3–diclorofenil)–1H–pirazol–3–ilo
3794.	1–metil–5–(2,4–diclorofenil)–1H–pirazol–3–ilo
3795.	1–metil–5–(2,5–diclorofenil)–1H–pirazol–3–ilo
3796.	1–metil–5–(2,6–diclorofenil)–1H–pirazol–3–ilo
3797.	1–metil–5–(3,4–diclorofenil)–1H–pirazol–3–ilo
3798.	1–metil–5–(3,5–diclorofenil)–1H–pirazol–3–ilo
3799.	1–metil–5–(2,3–dibromofenil)–1H–pirazol–3–ilo
3800.	1–metil–5–(2,4–dibromofenil)–1H–pirazol–3–ilo

N.º	R^3–A–
3801.	1–metil–5–(2,5–dibromofenil)–1H–pirazol–3–ilo
3802.	1–metil–5–(2,6–dibromofenil)–1H–pirazol–3–ilo
3803.	1–metil–5–(3,4–dibromofenil)–1H–pirazol–3–ilo
3804.	1–metil–5–(3,5–dibromofenil)–1H–pirazol–3–ilo
3805.	1–metil–5–(2,3–dimetilfenil)–1H–pirazol–3–ilo
3806.	1–metil–5–(2,4–dimetilfenil)–1H–pirazol–3–ilo
3807.	1–metil–5–(2,5–dimetilfenil)–1H–pirazol–3–ilo
3808.	1–metil–5–(2,6–dimetilfenil)–1H–pirazol–3–ilo
3809.	1–metil–5–(3,4–dimetilfenil)–1H–pirazol–3–ilo
3810.	1–metil–5–(3,5–dimetilfenil)–1H–pirazol–3–ilo
3811.	1–metil–5–[2,3–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3812.	1–metil–5–[2,4–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3813.	1–metil–5–[2,5–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3814.	1–metil–5–[2,6–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3815.	1–metil–5–[3,4–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3816.	1–metil–5–[3,5–di(trifluorometil)fenil]–1H–pirazol–3–ilo
3817.	1–metil–5–(2,3–dimetoxifenil)–1H–pirazol–3–ilo
3818.	1–metil–5–(2,4–dimetoxifenil)–1H–pirazol–3–ilo
3819.	1–metil–5–(2,5–dimetoxifenil)–1H–pirazol–3–ilo
3820.	1–metil–5–(2,6–dimetoxifenil)–1H–pirazol–3–ilo
3821.	1–metil–5–(3,4–dimetoxifenil)–1H–pirazol–3–ilo
3822.	1–metil–5–(3,5–dimetoxifenil)–1H–pirazol–3–ilo
3823.	1–metil–5–(o–CN–fenoxi)–1H–pirazol–3–ilo
3824.	1–metil–5–(m–CN–fenoxi)–1H–pirazol–3–ilo
3825.	1–metil–5–(p–CN–fenoxi)–1H–pirazol–3–ilo
3826.	1–metil–5–(o–NO_2–fenoxi)–1H–pirazol–3–ilo
3827.	1–metil–5–(m–NO_2–fenoxi)–1H–pirazol–3–ilo
3828.	1–metil–5–(p–NO_2–fenoxi)–1H–pirazol–3–ilo
3829.	1–metil–5–(o–F–fenoxi)–1H–pirazol–3–ilo
3830.	1–metil–5–(m–F–fenoxi)–1H–pirazol–3–ilo
3831.	1–metil–5–(p–F–fenoxi)–1H–pirazol–3–ilo
3832.	1–metil–5–(o–Cl–fenoxi)–1H–pirazol–3–ilo
3833.	1–metil–5–(m–Cl–fenoxi)–1H–pirazol–3–ilo
3834.	1–metil–5–(p–Cl–fenoxi)–1H–pirazol–3–ilo
3835.	1–metil–5–(o–Br–fenoxi)–1H–pirazol–3–ilo
3836.	1–metil–5–(m–Br–fenoxi)–1H–pirazol–3–ilo
3837.	1–metil–5–(p–Br–fenoxi)–1H–pirazol–3–ilo
3838.	1–metil–5–(o–CH_3–fenoxi)–1H–pirazol–3–ilo
3839.	1–metil–5–(m–CH_3–fenoxi)–1H–pirazol–3–ilo
3840.	1–metil–5–(p–CH_3–fenoxi)–1H–pirazol–3–ilo
3841.	1–metil–5–(o–CF_3–fenoxi)–1H–pirazol–3–ilo
3842.	1–metil–5–(m–CF_3–fenoxi)–1H–pirazol–3–ilo
3843.	1–metil–5–(p–CF_3–fenoxi)–1H–pirazol–3–ilo
3844.	1–metil–5–(o–CF_3–fenoxi)–1H–pirazol–3–ilo
3845.	1–metil–5–(m–CF_3–fenoxi)–1H–pirazol–3–ilo
3846.	1–metil–5–(p–CF_3–fenoxi)–1H–pirazol–3–ilo
3847.	1–metil–5–(o–OCH_3–fenoxi)–1H–pirazol–3–ilo
3848.	1–metil–5–(m–OCH_3–fenoxi)–1H–pirazol–3–ilo
3849.	1–metil–5–(p–OCH_3–fenoxi)–1H–pirazol–3–ilo
3850.	1–metil–5–(o–OCF_3–fenoxi)–1H–pirazol–3–ilo
3851.	1–metil–5–(m–OCF_3–fenoxi)–1H–pirazol–3–ilo
3852.	1–metil–5–(p–OCF_3–fenoxi)–1H–pirazol–3–ilo
3853.	1–metil–5–(o–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
3854.	1–metil–5–(m–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
3855.	1–metil–5–(p–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
3856.	1–metil–5–[o–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo
3857.	1–metil–5–[m–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo
3858.	1–metil–5–[p–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo

N.º	R^3–A–
3859.	1–metil–5–(2,3–dicianofenoxi)–1H–pirazol–3–ilo
3860.	1–metil–5–(2,4–dicianofenoxi)–1H–pirazol–3–ilo
3861.	1–metil–5–(2,5–dicianofenoxi)–1H–pirazol–3–ilo
3862.	1–metil–5–(2,6–dicianofenoxi)–1H–pirazol–3–ilo
3863.	1–metil–5–(3,4–dicianofenoxi)–1H–pirazol–3–ilo
3864.	1–metil–5–(3,5–dicianofenoxi)–1H–pirazol–3–ilo
3865.	1–metil–5–(2,3–difluorofenoxi)–1H–pirazol–3–ilo
3866.	1–metil–5–(2,4–difluorofenoxi)–1H–pirazol–3–ilo
3867.	1–metil–5–(2,5–difluorofenoxi)–1H–pirazol–3–ilo
3868.	1–metil–5–(2,6–difluorofenoxi)–1H–pirazol–3–ilo
3869.	1–metil–5–(3,4–difluorofenoxi)–1H–pirazol–3–ilo
3870.	1–metil–5–(3,5–difluorofenoxi)–1H–pirazol–3–ilo
3871.	1–metil–5–(2,3–diclorofenoxi)–1H–pirazol–3–ilo
3872.	1–metil–5–(2,4–diclorofenoxi)–1H–pirazol–3–ilo
3873.	1–metil–5–(2,5–diclorofenoxi)–1H–pirazol–3–ilo
3874.	1–metil–5–(2,6–diclorofenoxi)–1H–pirazol–3–ilo
3875.	1–metil–5–(3,4–diclorofenoxi)–1H–pirazol–3–ilo
3876.	1–metil–5–(3,5–diclorofenoxi)–1H–pirazol–3–ilo
3877.	1–metil–5–(2,3–dibromofenoxi)–1H–pirazol–3–ilo
3878.	1–metil–5–(2,4–dibromofenoxi)–1H–pirazol–3–ilo
3879.	1–metil–5–(2,5–dibromofenoxi)–1H–pirazol–3–ilo
3880.	1–metil–5–(2,6–dibromofenoxi)–1H–pirazol–3–ilo
3881.	1–metil–5–(3,4–dibromofenoxi)–1H–pirazol–3–ilo
3882.	1–metil–5–(3,5–dibromofenoxi)–1H–pirazol–3–ilo
3883.	1–metil–5–(2,3–dimetilfenoxi)–1H–pirazol–3–ilo
3884.	1–metil–5–(2,4–dimetilfenoxi)–1H–pirazol–3–ilo
3885.	1–metil–5–(2,5–dimetilfenoxi)–1H–pirazol–3–ilo
3886.	1–metil–5–(2,6–dimetilfenoxi)–1H–pirazol–3–ilo
3887.	1–metil–5–(3,4–dimetilfenoxi)–1H–pirazol–3–ilo

N.º	R^3–A–
3888.	1–metil–5–(3,5–dimetilfenoxi)–1H–pirazol–3–ilo
3889.	1–metil–5–[2,3–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3890.	1–metil–5–[2,4–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3891.	1–metil–5–[2,5–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3892.	1–metil–5–[2,6–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3893.	1–metil–5–[3,4–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3894.	1–metil–5–[3,5–di(trifluoro-metil)fenoxi]–1H–pirazol–3–ilo
3895.	1–metil–5–(2,3–dimetoxifenoxi)–1H–pirazol–3–ilo
3896.	1–metil–5–(2,4–dimetoxifenoxi)–1H–pirazol–3–ilo
3897.	1–metil–5–(2,5–dimetoxifenoxi)–1H–pirazol–3–ilo
3898.	1–metil–5–(2,6–dimetoxifenoxi)–1H–pirazol–3–ilo
3899.	1–metil–5–(3,4–dimetoxifenoxi)–1H–pirazol–3–ilo
3900.	1–metil–5–(3,5–dimetoxifenoxi)–1H–pirazol–3–ilo
3901.	1–metil–3–(o–CN–fenil)–1H–pirazol–5–ilo
3902.	1–metil–3–(m–CN–fenil)–1H–pirazol–5–ilo
3903.	1–metil–3–(p–CN–fenil)–1H–pirazol–5–ilo
3904.	1–metil–3–(o–NO_2–fenil)–1H–pirazol–5–ilo
3905.	1–metil–3–(m–NO_2–fenil)–1H–pirazol–5–ilo
3906.	1–metil–3–(p–NO_2–fenil)–1H–pirazol–5–ilo
3907.	1–metil–3–(o–F–fenil)–1H–pirazol–5–ilo
3908.	1–metil–3–(m–F–fenil)–1H–pirazol–5–ilo
3909.	1–metil–3–(p–F–fenil)–1H–pirazol–5–ilo
3910.	1–metil–3–(o–Cl–fenil)–1H–pirazol–5–ilo
3911.	1–metil–3–(m–Cl–fenil)–1H–pirazol–5–ilo
3912.	1–metil–3–(p–Cl–fenil)–1H–pirazol–5–ilo
3913.	1–metil–3–(o–Br–fenil)–1H–pirazol–5–ilo
3914.	1–metil–3–(m–Br–fenil)–1H–pirazol–5–ilo
3915.	1–metil–3–(p–Br–fenil)–1H–pirazol–5–ilo
3916.	1–metil–3–(o–CH_3–fenil)–1H–pirazol–5–ilo

N.º	R^3–A–
3917.	1–metil–3–(m–CH_3–fenil)–1H–pirazol–5–ilo
3918.	1–metil–3–(p–CH_3–fenil)–1H–pirazol–5–ilo
3919.	1–metil–3–(o–CF_3–fenil)–1H–pirazol–5–ilo
3920.	1–metil–3–(m–CF_3–fenil)–1H–pirazol–5–ilo
3921.	1–metil–3–(p–CF_3–fenil)–1H–pirazol–5–ilo
3922.	1–metil–3–(o–CF_3–fenil)–1H–pirazol–5–ilo
3923.	1–metil–3–(m–CF_3–fenil)–1H–pirazol–5–ilo
3924.	1–metil–3–(p–CF_3–fenil)–1H–pirazol–5–ilo
3925.	1–metil–3–(o–OCH_3–fenil)–1H–pirazol–5–ilo
3926.	1–metil–3–(m–OCH_3–fenil)–1H–pirazol–5–ilo
3927.	1–metil–3–(p–OCH_3–fenil)–1H–pirazol–5–ilo
3928.	1–metil–3–(o–OCF_3–fenil)–1H–pirazol–5–ilo
3929.	1–metil–3–(m–OCF_3–fenil)–1H–pirazol–5–ilo
3930.	1–metil–3–(p–OCF_3–fenil)–1H–pirazol–5–ilo
3931.	1–metil–3–(o–$COOCH_3$–fenil)–1H–pirazol–5–ilo
3932.	1–metil–3–(m–$COOCH_3$–fenil)–1H–pirazol–5–ilo
3933.	1–metil–3–(p–$COOCH_3$–fenil)–1H–pirazol–5–ilo
3934.	1–metil–3–[o–$N(CH_3)_2$–fenil]–1H–pirazol–5–ilo
3935.	1–metil–3–[m–$N(CH_3)_2$–fenil]–1H–pirazol–5–ilo
3936.	1–metil–3–[p–$N(CH_3)_2$–fenil]–1H–pirazol–5–ilo
3937.	1–metil–3–(2,3–dicianofenil)–1H–pirazol–5–ilo
3938.	1–metil–3–(2,4–dicianofenil)–1H–pirazol–5–ilo
3939.	1–metil–3–(2,5–dicianofenil)–1H–pirazol–5–ilo
3940.	1–metil–3–(2,6–dicianofenil)–1H–pirazol–5–ilo
3941.	1–metil–3–(3,4–dicianofenil)–1H–pirazol–5–ilo
3942.	1–metil–3–(3,5–dicianofenil)–1H–pirazol–5–ilo
3943.	1–metil–3–(2,3–difluorofenil)–1H–pirazol–5–ilo
3944.	1–metil–3–(2,4–difluorofenil)–1H–pirazol–5–ilo
3945.	1–metil–3–(2,5–difluorofenil)–1H–pirazol–5–ilo
3946.	1–metil–3–(2,6–difluorofenil)–1H–pirazol–5–ilo
3947.	1–metil–3–(3,4–difluorofenil)–1H–pirazol–5–ilo
3948.	1–metil–3–(3,5–difluorofenil)–1H–pirazol–5–ilo
3949.	1–metil–3–(2,3–diclorofenil)–1H–pirazol–5–ilo
3950.	1–metil–3–(2,4–diclorofenil)–1H–pirazol–5–ilo
3951.	1–metil–3–(2,5–diclorofenil)–1H–pirazol–5–ilo
3952.	1–metil–3–(2,6–diclorofenil)–1H–pirazol–5–ilo
3953.	1–metil–3–(3,4–diclorofenil)–1H–pirazol–5–ilo
3954.	1–metil–3–(3,5–diclorofenil)–1H–pirazol–5–ilo
3955.	1–metil–3–(2,3–dibromofenil)–1H–pirazol–5–ilo
3956.	1–metil–3–(2,4–dibromofenil)–1H–pirazol–5–ilo
3957.	1–metil–3–(2,5–dibromofenil)–1H–pirazol–5–ilo
3958.	1–metil–3–(2,6–dibromofenil)–1H–pirazol–5–ilo
3959.	1–metil–3–(3,4–dibromofenil)–1H–pirazol–5–ilo
3960.	1–metil–3–(3,5–dibromofenil)–1H–pirazol–5–ilo
3961.	1–metil–3–(2,3–dimetilfenil)–1H–pirazol–5–ilo
3962.	1–metil–3–(2,4–dimetilfenil)–1H–pirazol–5–ilo
3963.	1–metil–3–(2,5–dimetilfenil)–1H–pirazol–5–ilo
3964.	1–metil–3–(2,6–dimetilfenil)–1H–pirazol–5–ilo
3965.	1–metil–3–(3,4–dimetilfenil)–1H–pirazol–5–ilo
3966.	1–metil–3–(3,5–dimetilfenil)–1H–pirazol–5–ilo
3967.	1–metil–3–[2,3–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3968.	1–metil–3–[2,4–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3969.	1–metil–3–[2,5–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3970.	1–metil–3–[2,6–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3971.	1–metil–3–[3,4–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3972.	1–metil–3–[3,5–di(trifluorometil)fenil]–1H–pirazol–5–ilo
3973.	1–metil–3–(2,3–dimetoxifenil)–1H–pirazol–5–ilo
3974.	1–metil–3–(2,4–dimetoxifenil)–1H–pirazol–5–ilo

N.º	R^3–A–
3975.	1–metil–3–(2,5–dimetoxifenil)–1H–pirazol–5–ilo
3976.	1–metil–3–(2,6–dimetoxifenil)–1H–pirazol–5–ilo
3977.	1–metil–3–(3,4–dimetoxifenil)–1H–pirazol–5–ilo
3978.	1–metil–3–(3,5–dimetoxifenil)–1H–pirazol–5–ilo
3979.	1–metil–3–(o–CN–fenoxi)–1H–pirazol–5–ilo
3980.	1–metil–3–(m–CN–fenoxi)–1H–pirazol–5–ilo
3981.	1–metil–3–(p–CN–fenoxi)–1H–pirazol–5–ilo
3982.	1–metil–3–(o–NO_2–fenoxi)–1H–pirazol–5–ilo
3983.	1–metil–3–(m–NO_2–fenoxi)–1H–pirazol–5–ilo
3984.	1–metil–3–(p–NO_2–fenoxi)–1H–pirazol–5–ilo
3985.	1–metil–3–(o–F–fenoxi)–1H–pirazol–5–ilo
3986.	1–metil–3–(m–F–fenoxi)–1H–pirazol–5–ilo
3987.	1–metil–3–(p–F–fenoxi)–1H–pirazol–5–ilo
3988.	1–metil–3–(o–Cl–fenoxi)–1H–pirazol–5–ilo
3989.	1–metil–3–(m–Cl–fenoxi)–1H–pirazol–5–ilo
3990.	1–metil–3–(p–Cl–fenoxi)–1H–pirazol–5–ilo
3991.	1–metil–3–(o–Br–fenoxi)–1H–pirazol–5–ilo
3992.	1–metil–3–(m–Br–fenoxi)–1H–pirazol–5–ilo
3993.	1–metil–3–(p–Br–fenoxi)–1H–pirazol–5–ilo
3994.	1–metil–3–(o–CH_3–fenoxi)–1H–pirazol–5–ilo
3995.	1–metil–3–(m–CH_3–fenoxi)–1H–pirazol–5–ilo
3996.	1–metil–3–(p–CH_3–fenoxi)–1H–pirazol–5–ilo
3997.	1–metil–3–(o–CF_3–fenoxi)–1H–pirazol–5–ilo
3998.	1–metil–3–(m–CF_3–fenoxi)–1H–pirazol–5–ilo
3999.	1–metil–3–(p–CF_3–fenoxi)–1H–pirazol–5–ilo
4000.	1–metil–3–(o–CF_3–fenoxi)–1H–pirazol–5–ilo
4001.	1–metil–3–(m–CF_3–fenoxi)–1H–pirazol–5–ilo
4002.	1–metil–3–(p–CF_3–fenoxi)–1H–pirazol–5–ilo
4003.	1–metil–3–(o–OCH_3–fenoxi)–1H–pirazol–5–ilo

N.º	R^3–A–
4004.	1–metil–3–(m–OCH_3–fenoxi)–1H–pirazol–5–ilo
4005.	1–metil–3–(p–OCH_3–fenoxi)–1H–pirazol–5–ilo
4006.	1–metil–3–(o–OCF_3–fenoxi)–1H–pirazol–5–ilo
4007.	1–metil–3–(m–OCF_3–fenoxi)–1H–pirazol–5–ilo
4008.	1–metil–3–(p–OCF_3–fenoxi)–1H–pirazol–5–ilo
4009.	1–metil–3–(o–$COOCH_3$–fenoxi)–1H–pirazol–5–ilo
4010.	1–metil–3–(m–$COOCH_3$–fenoxi)–1H–pirazol–5–ilo
4011.	1–metil–3–(p–$COOCH_3$–fenoxi)–1H–pirazol–5–ilo
4012.	1–metil–3–[o–$N(CH_3)_2$–fenoxi]–1H–pirazol–5–ilo
4013.	1–metil–3–[m–$N(CH_3)_2$–fenoxi]–1H–pirazol–5–ilo
4014.	1–metil–3–[p–$N(CH_3)_2$–fenoxi]–1H–pirazol–5–ilo
4015.	1–metil–3–(2,3–dicianofenoxi)–1H–pirazol–5–ilo
4016.	1–metil–3–(2,4–dicianofenoxi)–1H–pirazol–5–ilo
4017.	1–metil–3–(2,5–dicianofenoxi)–1H–pirazol–5–ilo
4018.	1–metil–3–(2,6–dicianofenoxi)–1H–pirazol–5–ilo
4019.	1–metil–3–(3,4–dicianofenoxi)–1H–pirazol–5–ilo
4020.	1–metil–3–(3,5–dicianofenoxi)–1H–pirazol–5–ilo
4021.	1–metil–3–(2,3–difluorofenoxi)–1H–pirazol–5–ilo
4022.	1–metil–3–(2,4–difluorofenoxi)–1H–pirazol–5–ilo
4023.	1–metil–3–(2,5–difluorofenoxi)–1H–pirazol–5–ilo
4024.	1–metil–3–(2,6–difluorofenoxi)–1H–pirazol–5–ilo
4025.	1–metil–3–(3,4–difluorofenoxi)–1H–pirazol–5–ilo
4026.	1–metil–3–(3,5–difluorofenoxi)–1H–pirazol–5–ilo
4027.	1–metil–3–(2,3–diclorofenoxi)–1H–pirazol–5–ilo
4028.	1–metil–3–(2,4–diclorofenoxi)–1H–pirazol–5–ilo
4029.	1–metil–3–(2,5–diclorofenoxi)–1H–pirazol–5–ilo
4030.	1–metil–3–(2,6–diclorofenoxi)–1H–pirazol–5–ilo
4031.	1–metil–3–(3,4–diclorofenoxi)–1H–pirazol–5–ilo
4032.	1–metil–3–(3,5–diclorofenoxi)–1H–pirazol–5–ilo

N.º	R^3–A–
4033.	1–metil–3–(2,3–dibromofenoxi)–1H–pirazol–5–ilo
4034.	1–metil–3–(2,4–dibromofenoxi)–1H–pirazol–5–ilo
4035.	1–metil–3–(2,5–dibromofenoxi)–1H–pirazol–5–ilo
4036.	1–metil–3–(2,6–dibromofenoxi)–1H–pirazol–5–ilo
4037.	1–metil–3–(3,4–dibromofenoxi)–1H–pirazol–5–ilo
4038.	1–metil–3–(3,5–dibromofenoxi)–1H–pirazol–5–ilo
4039.	1–metil–3–(2,3–dimetilfenoxi)–1H–pirazol–5–ilo
4040.	1–metil–3–(2,4–dimetilfenoxi)–1H–pirazol–5–ilo
4041.	1–metil–3–(2,5–dimetilfenoxi)–1H–pirazol–5–ilo
4042.	1–metil–3–(2,6–dimetilfenoxi)–1H–pirazol–5–ilo
4043.	1–metil–3–(3,4–dimetilfenoxi)–1H–pirazol–5–ilo
4044.	1–metil–3–(3,5–dimetilfenoxi)–1H–pirazol–5–ilo
4045.	1–metil–3–[2,3–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4046.	1–metil–3–[2,4–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4047.	1–metil–3–[2,5–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4048.	1–metil–3–[2,6–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4049.	1–metil–3–[3,4–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4050.	1–metil–3–[3,5–di(trifluoro-metil)fenoxi]–1H–pirazol–5–ilo
4051.	1–metil–3–(2,3–dimetoxifenoxi)–1H–pirazol–5–ilo
4052.	1–metil–3–(2,4–dimetoxifenoxi)–1H–pirazol–5–ilo
4053.	1–metil–3–(2,5–dimetoxifenoxi)–1H–pirazol–5–ilo
4054.	1–metil–3–(2,6–dimetoxifenoxi)–1H–pirazol–5–ilo
4055.	1–metil–3–(3,4–dimetoxifenoxi)–1H–pirazol–5–ilo
4056.	1–metil–3–(3,5–dimetoxifenoxi)–1H–pirazol–5–ilo
4057.	1–(o–CN–fenil)–1H–pirazol–3–ilo
4058.	1–(m–CN–fenil)–1H–pirazol–3–ilo
4059.	1–(p–CN–fenil)–1H–pirazol–3–ilo
4060.	1–(o–NO_2–fenil)–1H–pirazol–3–ilo
4061.	1–(m–NO_2–fenil)–1H–pirazol–3–ilo
4062.	1–(p–NO_2–fenil)–1H–pirazol–3–ilo
4063.	1–(o–F–fenil)–1H–pirazol–3–ilo
4064.	1–(m–F–fenil)–1H–pirazol–3–ilo
4065.	1–(p–F–fenil)–1H–pirazol–3–ilo
4066.	1–(o–Cl–fenil)–1H–pirazol–3–ilo

N.º	R^3–A–
4067.	1–(m–Cl–fenil)–1H–pirazol–3–ilo
4068.	1–(p–Cl–fenil)–1H–pirazol–3–ilo
4069.	1–(o–Br–fenil)–1H–pirazol–3–ilo
4070.	1–(m–Br–fenil)–1H–pirazol–3–ilo
4071.	1–(p–Br–fenil)–1H–pirazol–3–ilo
4072.	1–(o–CH_3–fenil)–1H–pirazol–3–ilo
4073.	1–(m–CH_3–fenil)–1H–pirazol–3–ilo
4074.	1–(p–CH_3–fenil)–1H–pirazol–3–ilo
4075.	1–(o–CF_3–fenil)–1H–pirazol–3–ilo
4076.	1–(m–CF_3–fenil)–1H–pirazol–3–ilo
4077.	1–(p–CF_3–fenil)–1H–pirazol–3–ilo
4078.	1–(o–CF_3–fenil)–1H–pirazol–3–ilo
4079.	1–(m–CF_3–fenil)–1H–pirazol–3–ilo
4080.	1–(p–CF_3–fenil)–1H–pirazol–3–ilo
4081.	1–(o–OCH_3–fenil)–1H–pirazol–3–ilo
4082.	1–(m–OCH_3–fenil)–1H–pirazol–3–ilo
4083.	1–(p–OCH_3–fenil)–1H–pirazol–3–ilo
4084.	1–(o–OCF_3–fenil)–1H–pirazol–3–ilo
4085.	1–(m–OCF_3–fenil)–1H–pirazol–3–ilo
4086.	1–(p–OCF_3–fenil)–1H–pirazol–3–ilo
4087.	1–(o–$COOCH_3$–fenil)–1H–pirazol–3–ilo
4088.	1–(m–$COOCH_3$–fenil)–1H–pirazol–3–ilo
4089.	1–(p–$COOCH_3$–fenil)–1H–pirazol–3–ilo
4090.	1–[o–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
4091.	1–[m–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
4092.	1–[p–$N(CH_3)_2$–fenil]–1H–pirazol–3–ilo
4093.	1–(2,3–dicianofenil)–1H–pirazol–3–ilo
4094.	1–(2,4–dicianofenil)–1H–pirazol–3–ilo
4095.	1–(2,5–dicianofenil)–1H–pirazol–3–ilo
4096.	1–(2,6–dicianofenil)–1H–pirazol–3–ilo
4097.	1–(3,4–dicianofenil)–1H–pirazol–3–ilo
4098.	1–(3,5–dicianofenil)–1H–pirazol–3–ilo
4099.	1–(2,3–difluorofenil)–1H–pirazol–3–ilo
4100.	1–(2,4–difluorofenil)–1H–pirazol–3–ilo
4101.	1–(2,5–difluorofenil)–1H–pirazol–3–ilo
4102.	1–(2,6–difluorofenil)–1H–pirazol–3–ilo
4103.	1–(3,4–difluorofenil)–1H–pirazol–3–ilo
4104.	1–(3,5–difluorofenil)–1H–pirazol–3–ilo
4105.	1–(2,3–diclorofenil)–1H–pirazol–3–ilo
4106.	1–(2,4–diclorofenil)–1H–pirazol–3–ilo
4107.	1–(2,5–diclorofenil)–1H–pirazol–3–ilo
4108.	1–(2,6–diclorofenil)–1H–pirazol–3–ilo
4109.	1–(3,4–diclorofenil)–1H–pirazol–3–ilo
4110.	1–(3,5–diclorofenil)–1H–pirazol–3–ilo
4111.	1–(2,3–dibromofenil)–1H–pirazol–3–ilo
4112.	1–(2,4–dibromofenil)–1H–pirazol–3–ilo
4113.	1–(2,5–dibromofenil)–1H–pirazol–3–ilo
4114.	1–(2,6–dibromofenil)–1H–pirazol–3–ilo
4115.	1–(3,4–dibromofenil)–1H–pirazol–3–ilo
4116.	1–(3,5–dibromofenil)–1H–pirazol–3–ilo
4117.	1–(2,3–dimetilfenil)–1H–pirazol–3–ilo
4118.	1–(2,4–dimetilfenil)–1H–pirazol–3–ilo
4119.	1–(2,5–dimetilfenil)–1H–pirazol–3–ilo
4120.	1–(2,6–dimetilfenil)–1H–pirazol–3–ilo
4121.	1–(3,4–dimetilfenil)–1H–pirazol–3–ilo
4122.	1–(3,5–dimetilfenil)–1H–pirazol–3–ilo
4123.	1–[2,3–di(trifluorometil)fenil]–1H–pirazol–3–ilo

N.º	R^3–A–
4124.	1–[2,4–di(trifluorometil)fenil]–1H–pirazol–3–ilo
4125.	1–[2,5–di(trifluorometil)fenil]–1H–pirazol–3–ilo
4126.	1–[2,6–di(trifluorometil)fenil]–1H–pirazol–3–ilo
4127.	1–[3,4–di(trifluorometil)fenil]–1H–pirazol–3–ilo
4128.	1–[3,5–di(trifluorometil)fenil]–1H–pirazol–3–ilo
4129.	1–(2,3–dimetoxifenil)–1H–pirazol–3–ilo
4130.	1–(2,4–dimetoxifenil)–1H–pirazol–3–ilo
4131.	1–(2,5–dimetoxifenil)–1H–pirazol–3–ilo
4132.	1–(2,6–dimetoxifenil)–1H–pirazol–3–ilo
4133.	1–(3,4–dimetoxifenil)–1H–pirazol–3–ilo
4134.	1–(3,5–dimetoxifenil)–1H–pirazol–3–ilo
4135.	1–(o–CN–fenoxi)–1H–pirazol–3–ilo
4136.	1–(m–CN–fenoxi)–1H–pirazol–3–ilo
4137.	1–(p–CN–fenoxi)–1H–pirazol–3–ilo
4138.	1–(o–NO_2–fenoxi)–1H–pirazol–3–ilo
4139.	1–(m–NO_2–fenoxi)–1H–pirazol–3–ilo
4140.	1–(p–NO_2–fenoxi)–1H–pirazol–3–ilo
4141.	1–(o–F–fenoxi)–1H–pirazol–3–ilo
4142.	1–(m–F–fenoxi)–1H–pirazol–3–ilo
4143.	1–(p–F–fenoxi)–1H–pirazol–3–ilo
4144.	1–(o–Cl–fenoxi)–1H–pirazol–3–ilo
4145.	1–(m–Cl–fenoxi)–1H–pirazol–3–ilo
4146.	1–(p–Cl–fenoxi)–1H–pirazol–3–ilo
4147.	1–(o–Br–fenoxi)–1H–pirazol–3–ilo
4148.	1–(m–Br–fenoxi)–1H–pirazol–3–ilo
4149.	1–(p–Br–fenoxi)–1H–pirazol–3–ilo
4150.	1–(o–CH_3–fenoxi)–1H–pirazol–3–ilo
4151.	1–(m–CH_3–fenoxi)–1H–pirazol–3–ilo
4152.	1–(p–CH_3–fenoxi)–1H–pirazol–3–ilo
4153.	1–(o–CF_3–fenoxi)–1H–pirazol–3–ilo
4154.	1–(m–CF_3–fenoxi)–1H–pirazol–3–ilo
4155.	1–(p–CF_3–fenoxi)–1H–pirazol–3–ilo
4156.	1–(o–CF_3–fenoxi)–1H–pirazol–3–ilo
4157.	1–(m–CF_3–fenoxi)–1H–pirazol–3–ilo
4158.	1–(p–CF_3–fenoxi)–1H–pirazol–3–ilo
4159.	1–(o–OCH_3–fenoxi)–1H–pirazol–3–ilo
4160.	1–(m–OCH_3–fenoxi)–1H–pirazol–3–ilo
4161.	1–(p–OCH_3–fenoxi)–1H–pirazol–3–ilo
4162.	1–(o–OCF_3–fenoxi)–1H–pirazol–3–ilo
4163.	1–(m–OCF_3–fenoxi)–1H–pirazol–3–ilo
4164.	1–(p–OCF_3–fenoxi)–1H–pirazol–3–ilo
4165.	1–(o–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
4166.	1–(m–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
4167.	1–(p–$COOCH_3$–fenoxi)–1H–pirazol–3–ilo
4168.	1–[o–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo
4169.	1–[m–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo
4170.	1–[p–$N(CH_3)_2$–fenoxi]–1H–pirazol–3–ilo
4171.	1–(2,3–dicianofenoxi)–1H–pirazol–3–ilo
4172.	1–(2,4–dicianofenoxi)–1H–pirazol–3–ilo
4173.	1–(2,5–dicianofenoxi)–1H–pirazol–3–ilo
4174.	1–(2,6–dicianofenoxi)–1H–pirazol–3–ilo
4175.	1–(3,4–dicianofenoxi)–1H–pirazol–3–ilo
4176.	1–(3,5–dicianofenoxi)–1H–pirazol–3–ilo
4177.	1–(2,3–difluorofenoxi)–1H–pirazol–3–ilo
4178.	1–(2,4–difluorofenoxi)–1H–pirazol–3–ilo
4179.	1–(2,5–difluorofenoxi)–1H–pirazol–3–ilo
4180.	1–(2,6–difluorofenoxi)–1H–pirazol–3–ilo
4181.	1–(3,4–difluorofenoxi)–1H–pirazol–3–ilo
4182.	1–(3,5–difluorofenoxi)–1H–pirazol–3–ilo
4183.	1–(2,3–diclorofenoxi)–1H–pirazol–3–ilo
4184.	1–(2,4–diclorofenoxi)–1H–pirazol–3–ilo
4185.	1–(2,5–diclorofenoxi)–1H–pirazol–3–ilo
4186.	1–(2,6–diclorofenoxi)–1H–pirazol–3–ilo
4187.	1–(3,4–diclorofenoxi)–1H–pirazol–3–ilo
4188.	1–(3,5–diclorofenoxi)–1H–pirazol–3–ilo
4189.	1–(2,3–dibromofenoxi)–1H–pirazol–3–ilo
4190.	1–(2,4–dibromofenoxi)–1H–pirazol–3–ilo
4191.	1–(2,5–dibromofenoxi)–1H–pirazol–3–ilo
4192.	1–(2,6–dibromofenoxi)–1H–pirazol–3–ilo
4193.	1–(3,4–dibromofenoxi)–1H–pirazol–3–ilo
4194.	1–(3,5–dibromofenoxi)–1H–pirazol–3–ilo
4195.	1–(2,3–dimetilfenoxi)–1H–pirazol–3–ilo
4196.	1–(2,4–dimetilfenoxi)–1H–pirazol–3–ilo
4197.	1–(2,5–dimetilfenoxi)–1H–pirazol–3–ilo
4198.	1–(2,6–dimetilfenoxi)–1H–pirazol–3–ilo
4199.	1–(3,4–dimetilfenoxi)–1H–pirazol–3–ilo
4200.	1–(3,5–dimetilfenoxi)–1H–pirazol–3–ilo
4201.	1–[2,3–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4202.	1–[2,4–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4203.	1–[2,5–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4204.	1–[2,6–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4205.	1–[3,4–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4206.	1–[3,5–di(trifluorometil)fenoxi]–1H–pirazol–3–ilo
4207.	1–(2,3–dimetoxifenoxi)–1H–pirazol–3–ilo
4208.	1–(2,4–dimetoxifenoxi)–1H–pirazol–3–ilo
4209.	1–(2,5–dimetoxifenoxi)–1H–pirazol–3–ilo
4210.	1–(2,6–dimetoxifenoxi)–1H–pirazol–3–ilo
4211.	1–(3,4–dimetoxifenoxi)–1H–pirazol–3–ilo

N.º	R^3–A–
4212.	1–(3,5–dimetoxifenoxi)–1H–pirazol–3–ilo
4213.	1–(o–CN–fenil)–1H–pirazol–4–ilo
4214.	1–(m–CN–fenil)–1H–pirazol–4–ilo
4215.	1–(p–CN–fenil)–1H–pirazol–4–ilo
4216.	1–(o–NO_2–fenil)–1H–pirazol–4–ilo
4217.	1–(m–NO_2–fenil)–1H–pirazol–4–ilo
4218.	1–(p–NO_2–fenil)–1H–pirazol–4–ilo
4219.	1–(o–F–fenil)–1H–pirazol–4–ilo
4220.	1–(m–F–fenil)–1H–pirazol–4–ilo
4221.	1–(p–F–fenil)–1H–pirazol–4–ilo
4222.	1–(o–Cl–fenil)–1H–pirazol–4–ilo
4223.	1–(m–Cl–fenil)–1H–pirazol–4–ilo
4224.	1–(p–Cl–fenil)–1H–pirazol–4–ilo
4225.	1–(o–Br–fenil)–1H–pirazol–4–ilo
4226.	1–(m–Br–fenil)–1H–pirazol–4–ilo
4227.	1–(p–Br–fenil)–1H–pirazol–4–ilo
4228.	1–(o–CH_3–fenil)–1H–pirazol–4–ilo
4229.	1–(m–CH_3–fenil)–1H–pirazol–4–ilo
4230.	1–(p–CH_3–fenil)–1H–pirazol–4–ilo
4231.	1–(o–CF_3–fenil)–1H–pirazol–4–ilo
4232.	1–(m–CF_3–fenil)–1H–pirazol–4–ilo
4233.	1–(p–CF_3–fenil)–1H–pirazol–4–ilo
4234.	1–(o–CF_3–fenil)–1H–pirazol–4–ilo
4235.	1–(m–CF_3–fenil)–1H–pirazol–4–ilo
4236.	1–(p–CF_3–fenil)–1H–pirazol–4–ilo
4237.	1–(o–OCH_3–fenil)–1H–pirazol–4–ilo
4238.	1–(m–OCH_3–fenil)–1H–pirazol–4–ilo
4239.	1–(p–OCH_3–fenil)–1H–pirazol–4–ilo
4240.	1–(o–OCF_3–fenil)–1H–pirazol–4–ilo
4241.	1–(m–OCF_3–fenil)–1H–pirazol–4–ilo
4242.	1–(p–OCF_3–fenil)–1H–pirazol–4–ilo
4243.	1–(o–$COOCH_3$–fenil)–1H–pirazol–4–ilo
4244.	1–(m–$COOCH_3$–fenil)–1H–pirazol–4–ilo
4245.	1–(p–$COOCH_3$–fenil)–1H–pirazol–4–ilo
4246.	1–[o–$N(CH_3)_2$–fenil]–1H–pirazol–4–ilo
4247.	1–[m–$N(CH_3)_2$–fenil]–1H–pirazol–4–ilo
4248.	1–[p–$N(CH_3)_2$–fenil]–1H–pirazol–4–ilo
4249.	1–(2,3–dicianofenil)–1H–pirazol–4–ilo
4250.	1–(2,4–dicianofenil)–1H–pirazol–4–ilo
4251.	1–(2,5–dicianofenil)–1H–pirazol–4–ilo
4252.	1–(2,6–dicianofenil)–1H–pirazol–4–ilo
4253.	1–(3,4–dicianofenil)–1H–pirazol–4–ilo
4254.	1–(3,5–dicianofenil)–1H–pirazol–4–ilo
4255.	1–(2,3–difluorofenil)–1H–pirazol–4–ilo
4256.	1–(2,4–difluorofenil)–1H–pirazol–4–ilo
4257.	1–(2,5–difluorofenil)–1H–pirazol–4–ilo
4258.	1–(2,6–difluorofenil)–1H–pirazol–4–ilo
4259.	1–(3,4–difluorofenil)–1H–pirazol–4–ilo
4260.	1–(3,5–difluorofenil)–1H–pirazol–4–ilo
4261.	1–(2,3–diclorofenil)–1H–pirazol–4–ilo
4262.	1–(2,4–diclorofenil)–1H–pirazol–4–ilo
4263.	1–(2,5–diclorofenil)–1H–pirazol–4–ilo
4264.	1–(2,6–diclorofenil)–1H–pirazol–4–ilo
4265.	1–(3,4–diclorofenil)–1H–pirazol–4–ilo
4266.	1–(3,5–diclorofenil)–1H–pirazol–4–ilo
4267.	1–(2,3–dibromofenil)–1H–pirazol–4–ilo
4268.	1–(2,4–dibromofenil)–1H–pirazol–4–ilo

N.º	R^3–A–
4269.	1–(2,5–dibromofenil)–1H–pirazol–4–ilo
4270.	1–(2,6–dibromofenil)–1H–pirazol–4–ilo
4271.	1–(3,4–dibromofenil)–1H–pirazol–4–ilo
4272.	1–(3,5–dibromofenil)–1H–pirazol–4–ilo
4273.	1–(2,3–dimetilfenil)–1H–pirazol–4–ilo
4274.	1–(2,4–dimetilfenil)–1H–pirazol–4–ilo
4275.	1–(2,5–dimetilfenil)–1H–pirazol–4–ilo
4276.	1–(2,6–dimetilfenil)–1H–pirazol–4–ilo
4277.	1–(3,4–dimetilfenil)–1H–pirazol–4–ilo
4278.	1–(3,5–dimetilfenil)–1H–pirazol–4–ilo
4279.	1–[2,3–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4280.	1–[2,4–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4281.	1–[2,5–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4282.	1–[2,6–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4283.	1–[3,4–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4284.	1–[3,5–di(trifluorometil)fenil]–1H–pirazol–4–ilo
4285.	1–(2,3–dimetoxifenil)–1H–pirazol–4–ilo
4286.	1–(2,4–dimetoxifenil)–1H–pirazol–4–ilo
4287.	1–(2,5–dimetoxifenil)–1H–pirazol–4–ilo
4288.	1–(2,6–dimetoxifenil)–1H–pirazol–4–ilo
4289.	1–(3,4–dimetoxifenil)–1H–pirazol–4–ilo
4290.	1–(3,5–dimetoxifenil)–1H–pirazol–4–ilo
4291.	1–(o–CN–fenoxi)–1H–pirazol–4–ilo
4292.	1–(m–CN–fenoxi)–1H–pirazol–4–ilo
4293.	1–(p–CN–fenoxi)–1H–pirazol–4–ilo
4294.	1–(o–NO_2–fenoxi)–1H–pirazol–4–ilo
4295.	1–(m–NO_2–fenoxi)–1H–pirazol–4–ilo
4296.	1–(p–NO_2–fenoxi)–1H–pirazol–4–ilo
4297.	1–(o–F–fenoxi)–1H–pirazol–4–ilo
4298.	1–(m–F–fenoxi)–1H–pirazol–4–ilo
4299.	1–(p–F–fenoxi)–1H–pirazol–4–ilo
4300.	1–(o–Cl–fenoxi)–1H–pirazol–4–ilo
4301.	1–(m–Cl–fenoxi)–1H–pirazol–4–ilo
4302.	1–(p–Cl–fenoxi)–1H–pirazol–4–ilo
4303.	1–(o–Br–fenoxi)–1H–pirazol–4–ilo
4304.	1–(m–Br–fenoxi)–1H–pirazol–4–ilo
4305.	1–(p–Br–fenoxi)–1H–pirazol–4–ilo
4306.	1–(o–CH_3–fenoxi)–1H–pirazol–4–ilo
4307.	1–(m–CH_3–fenoxi)–1H–pirazol–4–ilo
4308.	1–(p–CH_3–fenoxi)–1H–pirazol–4–ilo
4309.	1–(o–CF_3–fenoxi)–1H–pirazol–4–ilo
4310.	1–(m–CF_3–fenoxi)–1H–pirazol–4–ilo
4311.	1–(p–CF_3–fenoxi)–1H–pirazol–4–ilo
4312.	1–(o–CF_3–fenoxi)–1H–pirazol–4–ilo
4313.	1–(m–CF_3–fenoxi)–1H–pirazol–4–ilo
4314.	1–(p–CF_3–fenoxi)–1H–pirazol–4–ilo
4315.	1–(o–OCH_3–fenoxi)–1H–pirazol–4–ilo
4316.	1–(m–OCH_3–fenoxi)–1H–pirazol–4–ilo
4317.	1–(p–OCH_3–fenoxi)–1H–pirazol–4–ilo
4318.	1–(o–OCF_3–fenoxi)–1H–pirazol–4–ilo
4319.	1–(m–OCF_3–fenoxi)–1H–pirazol–4–ilo
4320.	1–(p–OCF_3–fenoxi)–1H–pirazol–4–ilo

N.º	R^3–A–
4321.	1–(o–$COOCH_3$–fenoxi)–1H–pirazol–4–ilo
4322.	1–(m–$COOCH_3$–fenoxi)–1H–pirazol–4–ilo
4323.	1–(p–$COOCH_3$–fenoxi)–1H–pirazol–4–ilo
4324.	1–[o–$N(CH_3)_2$–fenoxi]–1H–pirazol–4–ilo
4325.	1–[m–$N(CH_3)_2$–fenoxi]–1H–pirazol–4–ilo
4326.	1–[p–$N(CH_3)_2$–fenoxi]–1H–pirazol–4–ilo
4327.	1–(2,3–dicianofenoxi)–1H–pirazol–4–ilo
4328.	1–(2,4–dicianofenoxi)–1H–pirazol–4–ilo
4329.	1–(2,5–dicianofenoxi)–1H–pirazol–4–ilo
4330.	1–(2,6–dicianofenoxi)–1H–pirazol–4–ilo
4331.	1–(3,4–dicianofenoxi)–1H–pirazol–4–ilo
4332.	1–(3,5–dicianofenoxi)–1H–pirazol–4–ilo
4333.	1–(2,3–difluorofenoxi)–1H–pirazol–4–ilo
4334.	1–(2,4–difluorofenoxi)–1H–pirazol–4–ilo
4335.	1–(2,5–difluorofenoxi)–1H–pirazol–4–ilo
4336.	1–(2,6–difluorofenoxi)–1H–pirazol–4–ilo
4337.	1–(3,4–difluorofenoxi)–1H–pirazol–4–ilo
4338.	1–(3,5–difluorofenoxi)–1H–pirazol–4–ilo
4339.	1–(2,3–diclorofenoxi)–1H–pirazol–4–ilo
4340.	1–(2,4–diclorofenoxi)–1H–pirazol–4–ilo
4341.	1–(2,5–diclorofenoxi)–1H–pirazol–4–ilo
4342.	1–(2,6–diclorofenoxi)–1H–pirazol–4–ilo
4343.	1–(3,4–diclorofenoxi)–1H–pirazol–4–ilo
4344.	1–(3,5–diclorofenoxi)–1H–pirazol–4–ilo
4345.	1–(2,3–dibromofenoxi)–1H–pirazol–4–ilo
4346.	1–(2,4–dibromofenoxi)–1H–pirazol–4–ilo
4347.	1–(2,5–dibromofenoxi)–1H–pirazol–4–ilo
4348.	1–(2,6–dibromofenoxi)–1H–pirazol–4–ilo
4349.	1–(3,4–dibromofenoxi)–1H–pirazol–4–ilo
4350.	1–(3,5–dibromofenoxi)–1H–pirazol–4–ilo
4351.	1–(2,3–dimetilfenoxi)–1H–pirazol–4–ilo
4352.	1–(2,4–dimetilfenoxi)–1H–pirazol–4–ilo
4353.	1–(2,5–dimetilfenoxi)–1H–pirazol–4–ilo
4354.	1–(2,6–dimetilfenoxi)–1H–pirazol–4–ilo
4355.	1–(3,4–dimetilfenoxi)–1H–pirazol–4–ilo
4356.	1–(3,5–dimetilfenoxi)–1H–pirazol–4–ilo
4357.	1–[2,3–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4358.	1–[2,4–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4359.	1–[2,5–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4360.	1–[2,6–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4361.	1–[3,4–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4362.	1–[3,5–di(trifluorometil)fenoxi]–1H–pirazol–4–ilo
4363.	1–(2,3–dimetoxifenoxi)–1H–pirazol–4–ilo
4364.	1–(2,4–dimetoxifenoxi)–1H–pirazol–4–ilo
4365.	1–(2,5–dimetoxifenoxi)–1H–pirazol–4–ilo
4366.	1–(2,6–dimetoxifenoxi)–1H–pirazol–4–ilo
4367.	1–(3,4–dimetoxifenoxi)–1H–pirazol–4–ilo
4368.	1–(3,5–dimetoxifenoxi)–1H–pirazol–4–ilo

Tabla 2: compuestos 4369 a 8736:

Compuestos de la fórmula (I.b.a), en donde R^1 significa cloro en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 3: compuestos 8737 a 13104:

Compuestos de la fórmula (I.b.a), en donde R^1 significa cloro en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 4: compuestos 13105 a 17472:

Compuestos de la fórmula (I.b.a), en donde R^1 significa cloro en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 5: compuestos 17473 a 21840:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilo en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 6: compuestos 21841 a 26208:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilo en la posición 5 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 7: compuestos 26209 a 30576:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilo en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 8: compuestos 30577 a 34944:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metoxi en la posición 2 del anillo pirimidina y t la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 9: compuestos 34945 a 39312:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metoxi en la posición 5 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 10: compuestos 39313 a 43680:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metoxi en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 11: compuestos 43681 a 48048:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metiltio en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 12: compuestos 48049 a 52416:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metiltio en la posición 5 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 13: compuestos 52417 a 56784:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metiltio en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 14: compuestos 56785 a 61152:

Compuestos de la fórmula (I.c.a), en donde cada R^1 significa metilo, unido en las posiciones 2 y 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 15: compuestos 61153 a 65520:

Compuestos de la fórmula (I.c.a), en donde cada R^1 significa metilo, unido en las

posiciones 5 y 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 16: compuestos 65521 a 69888:

Compuestos de la fórmula (I.c.a), en donde cada R^1 significa metoxi, unido en las posiciones 2 y 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 17: compuestos 69889 a 74256:

Compuestos de la fórmula (I.c.a), en donde cada R^1 significa metoxi, unido en las posiciones 5 y 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 18: compuestos 74257 a 78624:

Compuestos de la fórmula (I.b.a), en donde R^1 significa difluorometoxi, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 19: compuestos 78625 a 82992:

Compuestos de la fórmula (I.b.a), en donde R^1 significa difluorometoxi, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 20: compuestos 82993 a 87360:

Compuestos de la fórmula (I.b.a), en donde R^1 significa trifluorometoxi, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 21: compuestos 87361 a 91728:

Compuestos de la fórmula (I.b.a), en donde R^1 significa trifluorometoxi, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 22: compuestos 91729 a 96096:

Compuestos de la fórmula (I.b.a), en donde R^1 significa difluorometiltio, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 23: compuestos 96097 a 100464:

Compuestos de la fórmula (I.b.a), en donde R^1 significa difluorometiltio, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 24: compuestos 100465 a 104832:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilsulfonilo, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 25: compuestos 104832 a 109200:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilsulfinilo, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde

en cada caso a una línea de la tabla A.

Tabla 26: compuestos 109201 a 113568:

Compuestos de la fórmula (I.b.a), en donde R^1 significa trifluorometiltio, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 27: compuestos 113569 a 117936:

Compuestos de la fórmula (I.b.a), en donde R^1 significa trifluorometiltio, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 28: compuestos 117937 a 122304:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilamino, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 29: compuestos 122305 a 126672:

Compuestos de la fórmula (I.b.a), en donde R^1 significa metilamino, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 30: compuestos 126673 a 131040:

Compuestos de la fórmula (I.b.a), en donde R^1 significa dimetilamino, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 31: compuestos 131041 a 135408:

Compuestos de la fórmula (I.b.a), en donde R^1 significa dimetilamino, unido en la posición 6 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 32: compuestos 135409 a 139776:

Compuestos de la fórmula (I.b.a), en donde R^1 significa ciclopropilo, unido en la posición 2 del anillo pirimidina y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Tabla 33: compuestos 139777 a 144144:

Compuestos de la fórmula (I.c.a), en donde R^1 significa metoxi, unido en la posición 2 del anillo pirimidina, el otro R^1 significa metil, unido en la posición 6 del anillo pririmidina, y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

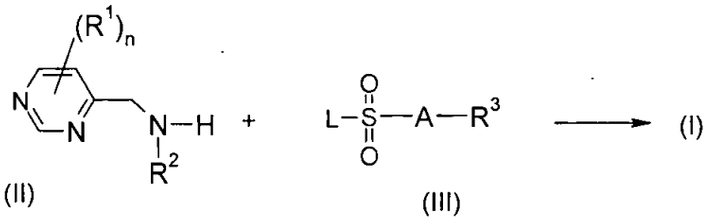
Tabla 34: compuestos 144144 a 148512:

Compuestos de la fórmula (I.c.a), en donde R^1 significa metiltio, unido en la posición 2 del anillo pirimidina, el otro R^1 significa metil, unido en la posición 6 del anillo pririmidina, y la combinación de R^3–A para un compuesto corresponde en cada caso a una línea de la tabla A.

Los compuestos de la invención de la fórmula (I) se pueden preparar por diversas vías en analogía con procesos de la técnica previa conocido per se para preparar

compuestos de sulfonamida y, ventajosamente, por la síntesis mostrada en los siguientes esquemas y en la parte experimental de la presente solicitud.

Esquema 1:



(II) (III) (I)

En el esquema 1, R^1, R^2, R^3, A y n son tal como se definió con anterioridad, y L es un grupo lábil tal como hidroxi o halógeno, de preferencia cloro.

De acuerdo con el proceso que se muestra en el esquema 1, un compuesto sulfonilo (III) se hace reaccionar con un compuesto pirimidin–4–ilmetilamina (II) para obtener un compuesto de la fórmula (I) de acuerdo con la presente invención. La reacción del compuesto sulfonilo (III) con compuesto (II) se puede llevar a cabo de acuerdo con métodos estándar de química orgánica, ver por ejemplo, Lieb. Ann. Chem. P. 641, 1990, o el documento WO 2005/033081.

La presente reacción generalmente se lleva a cabo en un solvente orgánico inerte. Los solventes adecuados son hidrocarburos alifáticos, tales como pentano, hexano, ciclohexano y éter de petróleo, hidrocarburos aromáticos tales como tolueno, o, m y p–xileno, hidrocarburos halogenados tales como diclorometano, cloroformo y clorobenceno, éteres tales como éter dietílico, éter diisopropílico, éter metil–ter–butílico, dioxano, anisol y tetrahidrofurano, nitrilos tales como acetonitrilo y propionitrilo, cetonas tales como acetona, metiletilcetona, dietilcetona y ter–butilmetilcetona, y también dimetilsulfóxido, dimetilformamida y dimetilacetamida, de preferencia tetrahidrofurano, éter metil–ter–butílico, diclorometano, cloroformo, acetonitrilo, tolueno o dimetilformamida. También es posible usar mezclas de los solventes mencionados.

La reacción se lleva a cabo en presencia de una base. Las bases adecuadas son, en general, compuestos inorgánicos tales como metales alcalinos y hidróxidos de metales alcalinotérreos tales como hidróxido de litio, hidróxido de sodio, hidróxido de potasio e hidróxido de calcio, metal alcalino y óxidos de metal alcalinotérreo, tales como óxido de litio, óxido de sodio, óxido de calcio y óxido de magnesio, hidruros de metales alcalinos y de metales alcalinotérreos, tales como hidruro de litio, hidruro de sodio, hidruro de potasio y hidruro de calcio, carbonato de metal alcalino y de metales alcalinotérreos, tales como carbonato de litio, carbonato de potasio y carbonato de calcio y también bicarbonatos de metales alcalinos, tales como bicarbonato de sodio, además bases orgánicas, por ejemplo aminas terciarias, tales como trimetilamina, trietilamina, diisopropiletilamina y N–metilpiperidina, piridina, piridinas sustituidas tales como colidina, lutidina y 4–dimetilaminopiridina, y también aminas bicíclicas. Se da particular preferencia a trietilamina, piridina, trietilamina y carbonato de potasio. Las bases generalmente se emplean en cantidades equimolares, en exceso o, si corresponde, como solvente. El exceso de base es generalmente de 0,5 a 5 equivalentes molares respecto de 1 mol de

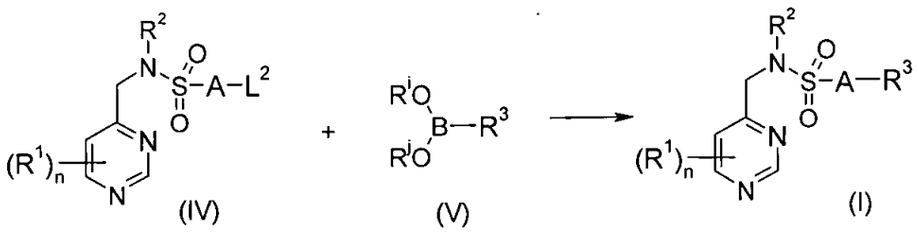
los compuestos (II).

Generalmente, la reacción se lleva a cabo a temperaturas de –30 °C a 120 °C, de preferencia de –10 °C a 100 °C.

Los materiales de inicio generalmente se hacen reaccionar entre sí en cantidades equimolares.

Los compuestos de la fórmula (I), en donde R^3 es fenilo o heteroarilo opcionalmente sustituido y A es fenileno opcionalmente sustituido o heteroarendiílo de 5 ó 6 miembros opcionalmente sustituido se pueden preparar por una reacción de un compuesto de fórmula (IV) con un derivado de ácido borónico de la fórmula (V) por acoplamiento de Suzuki tal como se muestra en el esquema 2.

Esquema 2:



En el esquema 2, R^1, R^2 y n son tal como se definió con anterioridad, R^i y R^j son cada uno independientemente hidrógeno o alquilo C_1–C_4, o R^i y R^j juntos forman un residuo 1,2–etileno o 1,2–propileno cuyos átomos de carbono pueden ser no sustituidos o pueden ser sustituidos en todo o en parte por grupos metilo, y L^2 es un grupo lábil adecuado.

Los grupos lábiles adecuados L^2 son halógeno, de preferencia cloro, bromo o yodo, alquilcarbonilato, benzoato, alquilsulfonato, haloalquilsulfonato o arilsulfonato, con mayor preferencia cloro o bromo.

La reacción generalmente se lleva a cabo en presencia de una base y un catalizador, en particular un catalizador de paladio, tal como por ejemplo se describe en la siguiente bibliografía: Synth. Commun. Vol. 11, p. 513 (1981); Acc. Chem. Res. Vol. 15, pp. 178–184 (1982); Chem. Rev. Vol. 95, pp. 2457–2483 (1995); Organic Letters Vol. 6 (16), p. 2808 (2004); "Metal catalyzed cross coupling reactions", 2º Edición, Wiley, VCH 2005 (Eds. De Meijere, Diederich); "Handbook of organopalladium chemistry for organic synthesis" (Eds Negishi), Wiley, Interscience, Nueva York, 2002; "Handbook of functionalized organometallics", (Ed. P. Knochel), Wiley, VCH, 2005.

Los catalizadores adecuados son tetrakis(trifenilfosfina)paladio (0); cloruro de bis(trifenilfosfina)paladio (II); cloruro de bis(acetonitril)paladio (II); complejo de cloruro de [1,1'–bis(difenilfosfina)ferroceno]–paladio (II)/cloruro de metileno (1:1); bis[bis–(1,2–difenilfosfina)etano]paladio (0); cloruro de bis(bis–(1,2–difenilfosfina)butano]–paladio (II); acetato de paladio (II); cloruro de paladio (II); y complejo de acetato de paladio (II)/tri–o–tolilfosfina o mezclas de fosfinas y sales de Pd o fosfinas y complejos de Pd, por ejemplo, dibencilidenacetona–paladio y triterbutilfosfina (o su tetrafluoroborato), tris ciclohexilfosfina; o un sistema catalizador Pd–trifenilfosfino ligado a polímero.

Las bases adecuadas en general son compuestos inorgánicos tales como óxidos

de metales alcalinos y óxidos de metales alcalinotérreos, tales como óxido de litio, óxido de sodio, óxido de calcio y óxido de magnesio, carbonatos de metales alcalinos y carbonatos de metales alcalinotérreos, tales como carbonato de litio, carbonato de sodio, carbonato de potasio, carbonato de cesio y carbonato de calcio, y también bicarbonatos de metales alcalinos, tales como bicarbonato de sodio, alcóxidos de metales alcalinos y de metales alcalinotérreos tales como metóxido de sodio, etóxido de sodio, etóxido de potasio y ter–butóxido de potasio, además bases orgánicas, por ejemplo aminas terciarias, tales como trimetilamina, trietilamina, diisopropiletilamina y N–metilpiperidina, piridina, piridinas sustituidas tales como colidina, lutidina y 4–dimetilaminopiridina, y también aminas bicíclicas. Se da particular preferencia a bases tales como carbonato de sodio, carbonato de potasio, carbonato de cesio, trietilamina y bicarbonato de sodio.

La base se usa en una relación molar de 1:1 a 1:10, de preferencia de 1:1,5 a 5 respecto de 1 mol de compuestos (IV), el ácido borónico se usa en una relación de 1:1 a 1:5, de preferencia una relación molar de 1:1 a 1:2,5 respecto de 1 mol de compuestos (IV). En algunos casos puede ser beneficioso para facilitar la purificación usar ácido borónico en una cantidad subestequiométrica de 0,7:1 a 0,99:1, por 1 mol de compuestos (IV).

La reacción usualmente se lleva acabo en un solvente orgánico inerte. Los solventes adecuados son hidrocarburos alifáticos, tales como pentano, hexano, ciclohexano y éter de petróleo, hidrocarburos aromáticos tales como tolueno, o, m y p–xileno, éteres tales como éter diisopropílico, éter metil–ter–butílico, dioxano, anisol y tetrahidrofurano y dimetoxietano, cetonas tales como acetona, metiletilcetona, dietilcetona y ter–butilmetilcetona, y también dimetilsulfóxido, dimetilformamida y dimetilacetamida, con particular preferencia éteres tales como tetrahidrofurano, dioxano y dimetoxietano. También es posible usar mezclas de los solventes mencionados, o sus mezclas con agua.

La reacción usualmente se lleva a cabo a temperaturas de 20 °C a 180 °C, de preferencia de 40 °C a 120 °C.

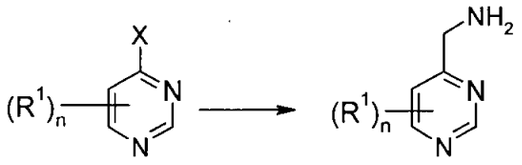
Después de completar la reacción, los compuestos de fórmula (I) se pueden aislar al emplear métodos convencionales tales como el agregado de la mezcla de reacción a agua, extraerla con un solvente orgánico, concentrar el extracto y similares. Los compuestos (I) aislados se pueden purificar por una técnica tal como cromatografía, recristalización y similares, de ser necesario.

También es posible añadir un eliminador de restos a las mezclas de reacción para extraer los subproductos o los materiales de inicio que no reaccionaron al fijarse a ellos y por simple filtración. Para los detalles ver "Synthesis and purification catalog", Argonaut, 2003 y la bibliografía allí citada.

Los ácidos o ésteres borónicos (V) están disponibles para el comercio o se pueden preparar de acuerdo con "Science of Synthesis" Vol. 6, Thieme, 2005; documento WO 02/042275; Synlett 2003, (8) p.1204; J. Org. Chem., 2003, 68, p. 3729, Synthesis, 2000, p.442, J. Org. Chem., 1995, 60, p. 750; o "Handbook of functionalized organometallics", (Ed. P. Knochel), Wiley, VCH, 2005.

Los compuestos de pirimidin–4–ilmetilamina (II) son conocidos en la literatura o están disponibles en el comercio o se pueden preparar por ejemplo por de la correspondiente oxima VIa, el nitrilo VIb, o la amida VIc tal como se describe más adelante. Los métodos adecuados son conocidos por los expertos en la técnica:

Esquema 3:



VIa: X = CH(=NOH)
VIb: X = CN
VIc: X = $(C(=O)NH_2)$

(II)

En el esquema 3, R^1 y n son tal como se definió.

Los métodos adecuados para la reducción de un compuesto oxima (VIa) del correspondiente compuesto pirimidin–4–ilmetilamina (II) está descrito en la bibliografía por ejemplo en Jerry March, reactions, mechanisms and structure, cuarta edición, 1992, John Wiley and Sons, Nueva York, páginas 1218–1219.

Los métodos adecuados para la reducción de un compuesto nitrilo (VIb) del correspondiente compuesto pirimidin–4–ilmetilamina (II) está descrito en la bibliografía por ejemplo en Jerry March, reactions, mechanisms and structure, cuarta edición, 1992, John Wiley and Sons, Nueva York, páginas 918–919.

Los métodos adecuados para la reducción de un compuesto amida (VIc) del correspondiente compuesto pirimidin–4–ilmetilamina (II) está descrito en la bibliografía por ejemplo en Jerry March, reactions, mechanisms and structure, cuarta edición, 1992, John Wiley and Sons, Nueva York, páginas 1212–1213.

El compuesto oxima (VIa) se puede preparar por ejemplo a partir del respectivo compuesto aldehído (X=CHO; compuesto (VId)) o derivado metilo ($X=CH_3$; compuesto (VIe)), tal como se describe en Houben–Weil, vol. 10/4, Thieme, Stuttgart, 1968; vol. 11/2, 1957; vol E5, 1985; J. Prakt. Chem–Chem. Ztg. 336(8), pp. 695–697, 1994; Tetrahedron Lett. 42(39), pp.6815–6818, 2001; o Heterocycles, 29(9), pp.1741–1760, 1989.

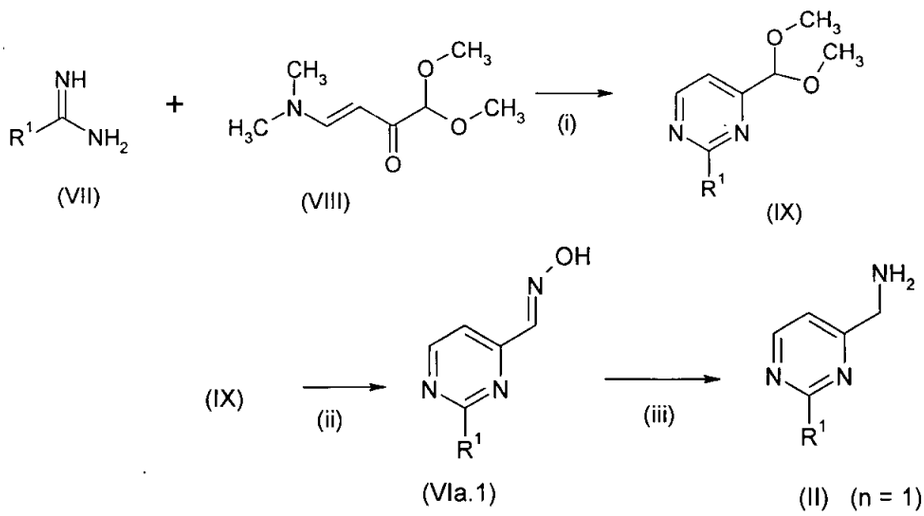
El compuesto aldehído (VId) se puede sintetizar a partir de un compuesto 4–metilpirimidina tal como se reseña en J. Org. Chem. 51(4), pp. 536–537, 1986, o de un haloderivado (X= halógeno compuesto (VIf)) tal como se muestra en Eur. J. Org. Chem., 2003, (8), pp. 1576–1588; Tetrahedron Lett. 1999, 40 (19), pp. 3719–3722; Tetrahedron, 1999, 55 (41), pp. 12149–12156.

El compuesto nitrilo (VIb) se puede preparar por ejemplo a partir del correspondiente compuesto 4–halogenopirimidina (VIf) por reacción con cianuro. Los compuestos 4–halogenopirimidina están disponibles en el comercio o se pueden sintetizar de acuerdo con métodos estándar.

El compuesto amida (VIc) se puede preparar, por ejemplo, a partir del correspondiente cloruro de ácido carboxílico por reacción con amoníaco.

El compuesto pirimidin–4–ilmetilamina (II) portador de un sustituyente en la posición 2 se puede preparar por ejemplo tal como se ejemplifica en los esquemas 4, 5 y 6.

Esquema 4:



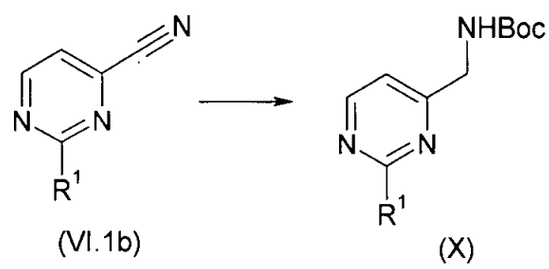
En el esquema 4, R^1 es tal como se definió con anterioridad. En particular, R^1 es halógeno, alquilo, amino, alquilamino o cicloalquilo.

De acuerdo con la secuencia de reacción que se muestra en el esquema 4, los compuestos de la fórmula (II) se pueden preparar en forma análoga a los métodos descritos por ejemplo en el documento WO 2005/014572, Journal of Heterocyclic Chemistry (1978), 15(6), 1041–2 o Chemische Berichte (1964), 97(12), 3407–17. De acuerdo con la etapa (i), se hace reaccionar una enaminocetona (VIII) con un compuesto amidina (VII) o su hidrohalogenoide, tal como se describe por ejemplo en Journal of Heterocyclic Chemistry (1978), 15(6), 1041–2. Usualmente, la reacción (i) se lleva a cabo en presencia de una base. Las bases adecuadas son alcóxido C_1–C_4, especialmente metóxido. La reacción generalmente se lleva a cabo en presencia de un solvente. Los solventes adecuados son alcanoles C_1–C_4, tales como metanol, etanol, n–propanol y sus mezclas. Usualmente, la reacción se lleva a cabo a temperatura de temperatura ambiente al punto de ebullición del solvente, de preferencia a temperatura de reflujo.

El compuesto (IX) luego se trata con hidroxilamina para dar un compuesto oxima (VIa.1) (etapa ii). La hidrogenación del compuesto oxima obtenido (VIa.1) en presencia de un catalizador, por ejemplo paladio sobre carbono da el compuesto pirimidin–4–ilmetilamina (II) (etapa iii).

Otro método para formar compuestos pirimidin–4–ilmetilamina (II) portadores de un sustituyente en la posición 2 se muestra en el esquema 5.

Esquema 5:



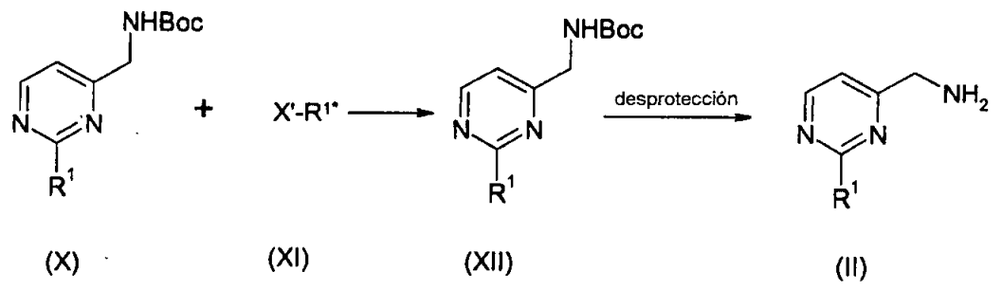
En el esquema 5, R^1 es tal como se definió con anterioridad y Boc es ter–butiloxicarbonilo.

De acuerdo con el proceso que se muestra en esquema 5, la hidrogenación del

nitrilo (VIb.1) en presencia de un catalizador, tal como níquel de Raney o paladio sobre carbono y bicarbonato de t–butilo da el compuesto N–protegido (X). Después de tratar con bromuro de hidrógeno/ácido acético glacial o con agua que contiene ácido trifluoroacético, el compuesto (X) se puede desproteger para dar un compuesto pirimidin–4–ilmetilamina (II) portador de un sustituyente en la posición 2.

Los compuestos de la fórmula (II) en donde R^1 es alcoxi, haloalcoxi, alquiltio o haloalquiltio se pueden preparar en analogía con procesos estándar a partir de un compuesto de la fórmula (X) en donde R^1 es halógeno, especialmente cloro, por ejemplo en analogía con métodos descritos en Journal of Heterocyclic Chemistry (2005), 42(7), 1369–1379, Tetrahedron Letters, 47(26), 4415–4418, 2006 o Chemical & Pharmaceutical Bulletin 31(12), 4533–8, 1983. Esta vía de síntesis se muestra en el esquema 6.

Esquema 6:



(X) (XI) (XII) (II)

(X) R^1 = halógeno

(XII) $R^1 = R^{1*}$ = alcoxi, haloalcoxi, alquiltio o haloalquiltio

(II) R^1 = alcoxi, haloalcoxi, alquiltio o haloalquiltio

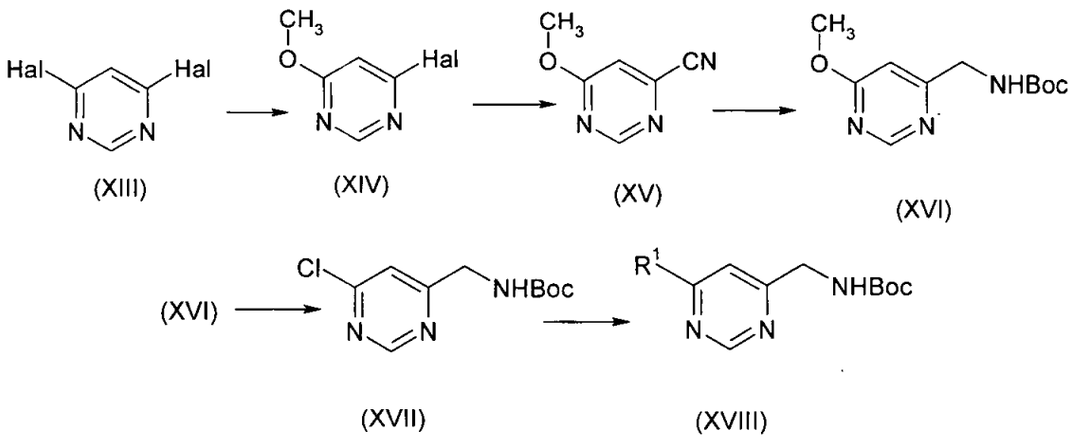
De acuerdo con el proceso que se muestra en el esquema 6, un compuesto de fórmula (XI) se hace reaccionar con un compuesto X'–R^{1*} (también referido más adelante como compuesto de la fórmula (XI) para dar un compuesto de fórmula (XII). Según el grupo R^{1*} que se introduce, los compuestos de la fórmula (XI) son alcóxidos, haloalcóxidos, tiolatos o halotiolatos inorgánicos. La reacción se lleva a cabo con ventaja en un solvente inerte. El catión X' de la fórmula (XI) tiene escasa importancia; por razones prácticas, generalmente se prefieren sales de amonio, sales de tetraalquilamonio tales como sales de tetrametilamonio o tetraetilamonio, o sales de metales alcalinos o sales de metales alcalinotérreos. Los solventes adecuados comprenden éteres tales como dioxano, éter dietílico, éter metil–ter–butílico y de preferencia tetrahidrofurano, hidrocarburos halogenados tales como diclorometano o dicloroetano, hidrocarburos aromáticos tales como tolueno y sus mezclas. La desprotección del grupo amino en la fórmula (XII) para dar el compuesto deseado de la fórmula (II) se puede lograr tal como se describe en el esquema 5 anterior.

Los compuestos de la fórmula (II) en los cuales R^1 es alquilo, haloalquilo, alquenilo, alquinilo, cicloalquilo o alquilcicloalquilo se pueden preparar con ventaja al hacer reaccionar los compuestos X en los cuales R^1 es halógeno con compuestos organometálicos R^{1a}–Mt en los cuales R^{1a} es alquilo, haloalquilo, alquenilo, alquinilo,

cicloalquilo o alquilcicloalquilo y Mt es litio, magnesio o zinc. La reacción se efectúa de preferencia en presencia de un catalítico o, en particular, al menos cantidades equimolares de sales y/o compuestos de metales de transición, en particular en presencia de sales de Cu tales como haluros de Cu(I) y especialmente yoduro de Cu(I), o catalizador de Pd. La reacción se efectúa generalmente en un solvente orgánico inerte, por ejemplo uno de los éteres antes mencionados, en particular tetrahidrofurano, un hidrocarburo alifático o cicloalifático tal como hexano, ciclohexano y similares, un hidrocarburo aromático tal como tolueno, o en una mezcla de estos solventes. Las temperaturas requeridas con este fin están en el rango de –100 a +100°C y especialmente en el rango de –80 °C a +40 °C.

Los compuestos de pirimidin–4–ilmetilamina (II) portadores de un sustituyente en la posición 6 se pueden preparar por ejemplo tal como se ejemplifica en el esquema 7.

Esquema 7:



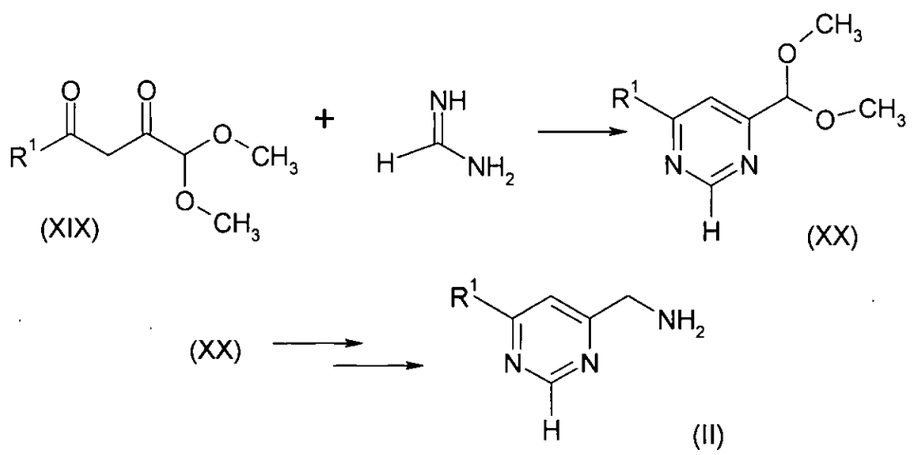
En el esquema 7, R^1 es tal como se definió con anterioridad, Hal significa halógeno, especialmente cloro, Boc significa ter–butiloxicarbonilo.

El tratamiento de pirimidinas 4,6–dihalosustituidas (XIII) con metóxido produce un compuesto 4–halopirimidina (XIV). XIV se trata con 1,4–diazabiciclo[2.2.2]octano (DABCO) y luego con cianuro de sodio para dar un cianocompuesto (XV). La hidrogenación de (XV) en presencia de un catalizador tal como níquel y en presencia de bicarbonato de t–butilo produce el compuesto N–protegido (XVI). El tratamiento de (XVI) con yoduro de trimetilsililo, seguido de tratamiento con cloruro de fosforilo produce un compuesto 6–cloropirimidina (XVII). El ataque nucleofílico de un nucleófilo, tales como alcóxido, haloalcóxido, alquiltiolato, ocurre en la posición 6 del compuesto XVII para dar el compuesto pirimidin–4–ilmetilamina (XVIII) deseado portador de un sustituyente R^1 = alcóxido, haloalcóxido, alquiltiolato o halotiolatos en la posición 6.

Las pirimidinas 4,6–dihalosustituidas están disponibles en el comercio.

Los compuestos pirimidin–4–ilmetilamina (II) portadores de un sustituyente R^1 en la posición 6 también se pueden preparar por ejemplo por la vía reseñada en el esquema 8 siguiente.

Esquema 8:



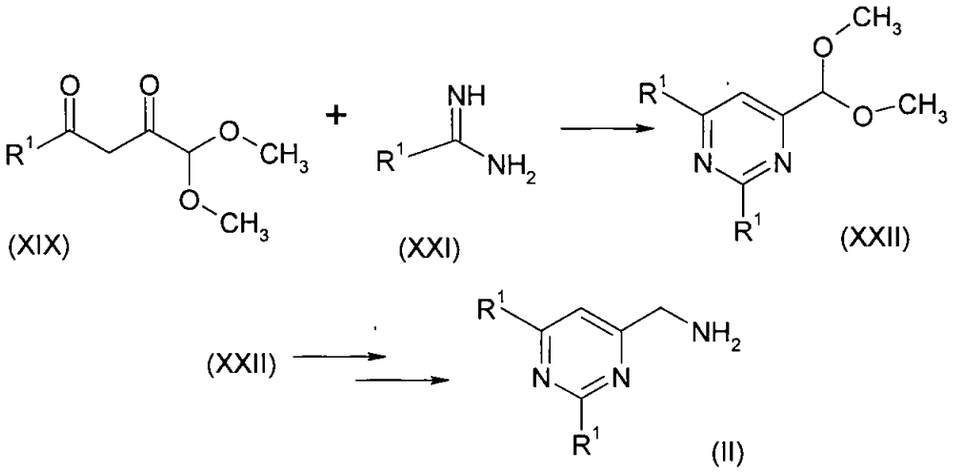
En el esquema 8, R^1 es tal como se definió con anterioridad. De acuerdo con la reacción que se muestra en el esquema 8, los compuestos de la fórmula (II) se pueden preparar al hacer reaccionar un compuesto carbonilo (XIX) con formamidina o una de sus

sales, por ejemplo el hidrohalogenoide tal como el clorhidrato, para dar una pirimidina de la fórmula (XX), que se puede convertir en compuestos de la fórmula (II) tal como se describe en el esquema 4. La conversión de los compuestos de la fórmula (XIX) en compuestos (XX) se puede lograr por analogía con métodos convencionales tal como se describe, por ejemplo, en Journal of Combinatorial Chemistry, 7(4), 517–519, 2005, Helvetica Chimica Acta 86(5), 1598–1624, 2003 o en el esquema 4, etapa 1. La conversión de los compuestos (XX) en compuestos (II) se puede lograr tal como se describe en el esquema 4, etapas (ii) y (iii).

Las sales por adición de ácido de formamidina están disponibles en el comercio.

Los compuestos pirimidin–4–ilmetilamina (II) portadores de un sustituyente R^1 en la posición 6 y un sustituyente R^1 en la posición 2 también se pueden preparar por ejemplo por la vía reseñada en el esquema 9 siguiente.

Esquema 9:

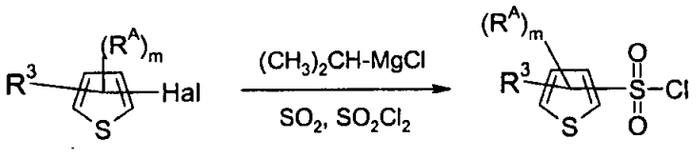


En el esquema 9, R^1 es tal como se definió con anterioridad y cada R^1 se selecciona independientemente de los demás. De acuerdo con el método del esquema 9, se hace reaccionar un compuesto carbonilo (XIX) con un compuesto amidina de la fórmula (XXI) para dar un compuesto pirimidina (XXII) que se convierte en un compuesto de la fórmula (II) (para los detalles, ver esquema 8).

Los compuestos sulfonilo (III) están disponibles en el comercio o se pueden obtener de acuerdo con procedimientos conocidos en la técnica.

El compuesto sulfonilo $L–SO_2–A–R^3$ de la fórmula (III), en donde A es tiofendiílo opcionalmente sustituido y L es cloro se pueden preparar de acuerdo con el esquema de reacción 10 siguiente al tratar un haluro (XXIII) respectivo con halogenoide alquilmagnesio tal como $(CH_3)_2CH–MgCl$, SO_2 y SO_2Cl_2.

Esquema 10:



(A = tiofeno opcionalmente sustituido)

En el esquema 10, R^A y R^3 son tal como se definió con anterioridad, m es 0, 1 ó 2 y Hal significa halógeno.

Los complejos piridina–SO_3 o dioxano–SO_3 convierten furano opcionalmente sustituido en ácido furan–2–sulfónico opcionalmente sustituido (III).

La sulfonación de pirrol opcionalmente sustituido con complejo de trióxido de azufre–piridina produce principalmente los pirroles 3 sulfonados de fórmula (III), en los cuales A es un pirroldiílo opcionalmente sustituido y L es OH [Mizuno, A. et. al., Tetrahedron Lett. 2000, 41, 6605.].

La sulfonación de imidazol y pirazol opcionalmente sustituidos, respectivamente, con óleo con calentamiento produce ácido imidazol–4–sulfónico opcionalmente sustituido y ácido pirazol–4–sulfónico opcionalmente sustituido.

La sulfonación de isotiazol e isoxazol opcionalmente sustituidos, respectivamente, con óleo generalmente ocurre en la posición 4, siempre que esta posición no esté sustituida, para dar los correspondientes isotiazol e isoxazol sulfonados, respectivamente. La sulfonación de tiazol opcionalmente sustituido con óleo a 250 °C en presencia de acetato de mercurio (II) generalmente ocurre en la posición 5 para dar el correspondiente tiazol sulfonado.

Los ácidos piridin–2–sulfónico, piridin–3–sulfónico y piridina–4–sulfónico están disponibles en el comercio. Por ejemplo, la sulfonación de piridina con óleo a 250 °C en presencia de Hg (II) como catalizador produce ácido piridin–3–sulfónico. Por calentamiento de ácido piridin–3–sulfónico a 360 °C o sulfonación de piridina a 360 °C se obtiene el ácido piridin–4–sulfónico. El ácido piridin–4–sulfónico también se puede preparar a partir de piridina y cloruro de tionilo para dar clorhidrato de cloruro de N–(4–piridil)piridinio seguido de tratamiento de clorhidrato de cloruro de N–(4–piridil)piridinio con sulfito de sodio heptahidrato para dar sulfonato de 4–piridina sódico. El tratamiento de sulfonato de 4–piridina sódico con un HCl produce ácido piridina–4–sulfónico [cf. Organic Syntheses, Coll. Vol. 5, p.977 (1973); Vol. 43, p.97 (1963).

Los compuestos de la fórmula (III), en donde A es fenileno opcionalmente sustituido son conocidos del arte previo citado en la parte introductoria.

Los compuestos de la fórmula (I) con R^2 = H se pueden convertir mediante procesos convencionales tales como alquilación. Los ejemplos de agentes alquilantes adecuados incluyen haluros de alquilo, tales como cloruro de alquilo, bromuro de alquilo o yoduro de alquilo, en donde son ejemplos cloruro de metilo, bromuro de metilo o yoduro de metilo, o sulfatos de dialquilo tales como sulfato de dimetilo o sulfato de dietilo. La reacción con el agente alquilante se realiza ventajosamente en presencia de un solvente. Los solventes usados en estas reacciones son –según el rango de temperatura– hidrocarburos alifáticos, cicloalifáticos o aromáticos tales como hexano, ciclohexano, tolueno, xileno, hidrocarburos alifáticos y aromáticos clorados tales como diclorometano, clorobenceno, éteres de dialquilo de cadena abierta tales como éter dietílico, éter di–n–propílico, éter metil–ter–butílico, éteres cíclicos tales como tetrahidrofurano, 1,4–dioxano,

éteres de glicol tales como éter de dimetilglicol, o mezclas de estos solventes.

Los N–óxidos se pueden preparar a partir de los compuestos (I) de acuerdo con métodos convencionales de oxidación, por ejemplo al tratar compuestos (I) con un perecido orgánico tal como ácido metacloroperbenzoico [Journal of Medicinal Chemistry 38(11), 1892–903 (1995), WO 03/64572]; o con agentes oxidantes inorgánicos tales como peróxido de hidrógeno [cf. Journal of Heterocyclic Chemistry 18(7), 1305–8 (1981)] u oxona [cf. Journal of the American Chemical Society 123(25), 5962–5973 (2001)]. La oxidación puede conducir a mono–N–óxidos puros o a una mezcla de diferentes N–óxidos, que se pueden separar por métodos convencional tales como cromatografía.

Si compuestos individuales (I) no se pueden obtener por las vías descritas con anterioridad, se pueden preparar por derivación de otros compuestos I.

Si la síntesis produce mezclas de isómeros, generalmente no necesariamente se requiere la separación, dado que en algunos casos cada isómero individual se puede interconvertir durante el procesamiento para su uso o durante la aplicación (por ejemplo con acción de luz, ácidos o bases). Dichas conversiones también pueden ocurrir después del uso, por ejemplo en el tratamiento de plantas en la planta tratada, o en el hongo o plaga dañina que se busca controlar.

Los compuestos (I) son adecuados como fungicidas. Se distinguen por su notable efectividad contra un amplio espectro de hongos fitopatógenos, especialmente de las clases de *Ascomycetes, Basidiomycetes, Deuteromycetes* y *Peronosporomycetes* (sin. *Oomycetes*). Algunos tienen efectividad sistémica y se pueden usar en la protección de cultivos como fungicidas foliares, fungicidas para el tratamiento de semillas y fungicidas del suelo.

Son particularmente importantes en el control de múltiples hongos de diversas plantas cultivadas, tales como trigo, centeno, cebada, avena, arroz, maíz, césped, bananas, algodón, porotos de soja, café, caña de azúcar, vides, frutas y plantas ornamentales, y vegetales, tales como pepinos, porotos, tomates, papas y cucurbitáceas, y de las semillas de estas plantas.

Son especialmente adecuados para controlar las siguientes enfermedades vegetales:

- especies de *Alternaria* en vegetales, nabo, remolacha azucarera, fruta y arroz (por ejemplo *A. solani* o *A. alternata* en papas y tomates),
- especies de *Aphanomyces* en remolacha azucarera y vegetales,
- especies de *Ascochyta* en cereales y vegetales,
- especies de *Bipolaris* y *Drechslera* en maiz, cereales, arroz y césped (por ejemplo *D. maydis* en maíz),
- *Blumeria graminis* (moho pulverulento) en cereales,
- *Botrytis cinerea* (moho gris) en frutillas, vegetales, plantas ornamentales y vides,
- *Bremia lactucae* en lechuga,
- especies de *Cerospora* en maíz, porotos de soja, arroz y remolacha azucarera,

- especies de *Cocliobolus* en maíz, cereales, arroz (por ejemplo *Cocliobolus sativus* en cereales, *Cocliobolus miyabeanus* en arroz),
- especies de *Colletotricum* en porotos de soja y algodón,
- especies de *Drechslera, Pyrenophora* en maíz, cereales, arroz y césped (por ejemplo *D. teres* en cebada o *D. tritici–repentis* en trigo),
- *Esca* en vides, causado por *Phaeoacremonium chlamydosporium, Ph. aleophilum* y *Formitipora punctata* (sin. *Phellinus punctatus*),
- *Elsinoe ampelina* en vides,
- especies de *Exserohilum* en maíz,
- *Erysiphe cichoracearum* y *Sphaerotheca fuliginea* en cucurbitáceas,
- especies de *Fusarium* y *Verticillium* en diversas plantas (por ejemplo *F. graminearum o F. culmorum* en cereales o *F. oxysporum* en diversas plantas, por ejemplo tomates),
- *Gaeumanomyces graminis* en cereales,
- especies de *Gibberella* en cereales y arroz (por ejemplo *Gibberella fujikuroi* en arroz),
- *Glomerella cingulata* en vides y otras plantas,
- complejo de manchas de granos en arroz,
- *Guignardia budwelli* en vides,
- especies de *Helminthosporium* en maíz y arroz,
- *Isariopsis clavispora* en vides,
- *Michrodochium nivale* en cereales,
- especies de *Mycosphaerella* en cereales, bananas y maní (por ejemplo *M. graminicola* en trigo o *M. fijiesis* en bananas),
- especies de *Peronospora* en plantas de repollo y cebolla (por ejemplo *P. brassicae* en repollo o *P. destructor* en cebollas),
- *Phakopsara pachyrhizi y Phakopsara meibomiae* en porotos de soja,
- especies de *Phomopsis* en porotos de soja y girasoles, *P. viticola* en vides,
- *Phytophthora infestans* en papas y tomates,
- especies de *Phytophthora* en diversas plantas (por ejemplo *P. capsici* en pimentón),
- *Plasmopara viticola* en vides,
- *Podosphaera leucotricha* en manzanas,
- *Pseudocercosporella herpotrichoides* en cereales,
- *Pseudoperonospora* en diversas plantas (por ejemplo *P. cubensis* en pepino o *P. humili* en lúpulo),
- *Pseudopezicula tracheiphilai* en vides,
- especies de *Puccinia* en diversas plantas (por ejemplo *P. triticina*, *P. striformins*, *P. hordei* o *P. graminis* en cereales o *P. asparagi* en espárragos),
- *Pyricularia oryzae, Corticium sasakii , Sarocladium oryzae, S.attenuatum, Entyloma*

oryzae en arroz,

- *Pyricularia grisea* en césped y cereales,
- *Pythium spp.* en césped, arroz, maíz, algodón, nabo, girasol, remolacha azucarera, vegetales y otras plantas (por ejemplo *P. ultiumum* en diversas plantas, *P. aphanidermatum* en césped),
- especies de *Rhizoctonia* en algodón, arroz, papas, césped, maíz, nabo, remolacha azucarera, vegetales y en diversas plantas (por ejemplo *R. solani* en remolacha y diversas plantas),
- *Rhynchosporium secalis* en cebada, centeno y tritical,
- especies de *Sclerotinia* en nabo y girasol,
- *Septoria tritici y Stagonospora nodorum* en trigo,
- *Erysiphe* (sin. *Uncinula*) *necator* en vides,
- especies de *Setospaeria* en maíz y césped,
- *Sphacelotheca reilinia* en maíz,
- *Sphaerotheca fuliginea* en pepino,
- especies de *Thievaliopsis* en poroto de soja y algodón,
- especies de *Tilletia* en cereales,
- especies de *Ustilago* en cereales, maíz y caña de azúcar (por ejemplo *U. maydis* en maíz),
- especies de *Venturia* (escabies) en manzanas y peras (por ejemplo *V. inaequalis* en manzanas).

Los compuestos (I) también son adecuados para controlar hongos dañinos en la protección de materiales (por ejemplo madera, papel, dispersiones de pintura, fibras o telas) y en la protección de productos almacenados. En la protección de madera, los siguientes hongos dañinos son dignos de mención: Ascomycetes tales como *Ophiostoma* spp., *Ceratocystis* spp., *Aureobasidium pullulans*, *Sclerophoma* spp., *Chaetomium* spp., *Humicola* spp., *Petriella* spp., *Trichurus* spp.; Basidiomycetes tales como *Coniophora* spp., *Coriolus* spp., *Gloeophyllum* spp., *Lentinus* spp., *Pleurotus* spp., *Poria* spp., *Serpula* spp. y *Tyromyces* spp., Deuteromycetes tales como *Aspergillus* spp., *Cladosporium* spp., *Penicillium* spp., *Trichoderma* spp., *Alternaria* spp., *Paecilomyces* spp. y Zygomycetes tales como *Mucor* spp., y además, en la protección de productos almacenados son dignos de mención: *Candida* spp. y *Saccharomyces cerevisae.*

Los compuestos (I) se emplean para tratar los hongos o las plantas, semillas, materiales o el suelo que se desea proteger del ataque de los hongos con una cantidad efectiva como fungicida de los compuestos activos. La aplicación se puede llevar a cabo antes o después de la infección de los materiales, plantas o semillas por los hongos.

Las composiciones fungicidas generalmente comprenden entre 0,1 y 95%, de preferencia entre 0,5 y 90%, en peso de compuesto activo. Los compuestos activos se emplean con una pureza de 90% a 100%, de preferencia de 95% a 100% (de acuerdo con

el espectro RMN).

Cuando se emplean en la protección de plantas, las cantidades aplicadas son, según el tipo de efecto deseado, de entre 0,01 y 2,0 kg de compuesto activo por ha.

En el tratamiento de semillas, por ejemplo por espolvoreado, cobertura o remojo de la semilla, generalmente se requieren cantidades de compuesto activo de 0,1 g a 10 kg, frecuentemente 1 a 1000 g, de preferencia de 5 a 100 g, por 100 kilogramos de semilla.

Cuando se usan en la protección de materiales o productos almacenados, la cantidad de compuesto activo aplicada depende del tipo de área de aplicación y del efecto deseado. Las cantidades generalmente aplicadas en la protección de materiales son, por ejemplo, de 0,001 g a 2 kg, de preferencia 0,005 g a 1 kg, de compuesto activo por metro cúbico de material tratado.

Además, los compuestos de la fórmula (I) también se pueden usar en cultivos que pueden tolerar el ataque insecticida o fúngico debido al cultivo, incluso por ingeniería genética.

Los compuestos de la fórmula (I) también son adecuados para controlar efectivamente plagas de las clases de insectos, arácnidos y nematodos. Se pueden usar como plaguicidas en la protección de cultivos y en los sectores de higiene y protección de productos almacenados y el sector veterinario.

Pueden actuar por contacto o pueden actuar a través del estómago, o tener acción sistémica o residual. La acción por contacto significa que la plaga se mata al entrar en contacto con un compuesto I o con material que libera compuesto I. La acción a través del estómago significa que la plaga es destruida si ingiere una cantidad efectiva como plaguicida del compuesto I o material que contiene una cantidad efectiva como plaguicida de compuesto I. La acción sistémica significa que el compuesto es absorbido por los tejidos vegetales de la planta tratada y la plaga se controla si come tejido vegetal o succiona el depósito de nutrientes vegetales.

Los compuestos (I) son particularmente adecuados para controlar las siguientes plagas de insectos:

insectos del orden *Lepidoptera*, por ejemplo *Agrotis ypsilon, Agrotis segetum, Alabama argillacea, Anticarsia gemmatalis, Argyresthia conjugella, Autographa gamma, Bupalus piniarius, Cacoecia murinana, Capua reticulana, Cheimatobia brumata, Choristoneura fumiferana, Choristoneura occidentalis, Cirphis unipuncta, Cydia pomonella, Dendrolimus pini, Diaphania nitidalis, Diatraea grandiosella, Earias insulana, Elasmopalpus lignosellus, Eupoecilia ambiguella, Evetria bouliana, Feltia subterranea, Galleria mellonella, Grapholitha funebrana, Grapholitha molesta, Heliothis armigera, Heliothis virescens, Heliothis zea, Hellula undalis, Hibernia defoliaria, Hyphantria cunea, Hyponomeuta malinellus, Keiferia lycopersicella, Lambdina fiscellaria, Laphygma exigua, Leucoptera coffeella, Leucoptera scitella, Lithocolletis blancardella, Lobesia botrana, Loxostege sticticalis, Lymantria dispar, Lymantria monacha, Lyonetia clerkella, Malacosoma neustria, Mamestra brassicae, Orgyia pseudotsugata, Ostrinia nubilalis, Panolis flammea,*

Pectinophora gossypiella, Peridroma saucia, Phalera bucephala, Phthorimaea operculella, Phyllocnistis citrella, Pieris brassicae, Plathypena scabra, Plutella xylostella, Pseudoplusia includens, Rhyacionia frustrana, Scrobipalpula absoluta, Sitotroga cerealella, Sparganothis pilleriana, Spodoptera eridania, Spodoptera frugiperda, Spodoptera littoralis, Spodoptera litura, Thaumatopoea pityocampa, Tortrix viridana, Trichoplusia ni y *Zeiraphera canadensis*,

del orden *Coleoptera* (cascarudos), por ejemplo *Agrilus sinuatus, Agriotes lineatus, Agriotes obscurus, Amphimallus solstitialis, Anisandrus dispar, Anthonomus grandis, Anthonomus pomorum, Atomaria linearis, Blastophagus piniperda, Blitophaga undata, Bruchus rufimanus, Bruchus pisorum, Bruchus lentis, Byctiscus betulae, Cassida nebulosa, Cerotoma trifurcata, Ceuthorrhynchus assimilis, Ceuthorrhynchus napi, Chaetocnema tibialis, Conoderus vespertinus, Crioceris asparagi, Diabrotica longicornis, Diabrotica 12–punctata, Diabrotica virgifera, Epilachna varivestis, Epitrix hirtipennis, Eutinobothrus brasiliensis, Hylobius abietis, Hypera brunneipennis, Hypera postica, Ips typographus, Lema bilineata, Lema melanopus, Leptinotarsa decemlineata, Limonius californicus, Lissorhoptrus oryzophilus, Melanotus communis, Meligethes aeneus, Melolontha hippocastani, Melolontha melolontha, Oulema oryzae, Ortiorrhynchus sulcatus, Otiorrhynchus ovatus, Phaedon cochleariae, Phyllotreta chrysocephala, Phyllophaga sp., Phyllopertha horticola, Phyllotreta nemorum, Phyllotreta striolata, Popillia japonica, Sitona lineatus* y *Sitophilus granaria*,

del orden *Diptera*, por ejemplo *Aedes aegypti, Aedes vexans, Anastrepha ludens, Anopheles maculipennis, Ceratitis capitata, Chrysomya bezziana, Chrysomya hominivorax, Chrysomya macellaria, Contarinia sorghicola, Cordylobia anthropophaga, Culex pipiens, Dacus cucurbitae, Dacus oleae, Dasineura brassicae, Fannia canicularis, Gasterophilus intestinalis, Glossina morsitans, Haematobia irritans, Haplodiplosis equestris, Hylemyia platura, Hypoderma lineata, Liriomyza sativae, Liriomyza trifolii, Lucilia caprina, Lucilia cuprina, Lucilia sericata, Lycoria pectoralis, Mayetiola destructor, Musca domestica, Muscina stabulans, Oestrus ovis, Oscinella frit, Pegomya hysocyami, Phorbia antiqua, Phorbia brassicae, Phorbia coarctata, Rhagoletis cerasi, Rhagoletis pomonella, Tabanus bovinus, Tipula oleracea* y *Tipula paludosa*,

del orden *Thysanoptera* (trips), por ejemplo *Dichromothrips spp., Frankliniella fusca, Frankliniella occidentalis, Frankliniella tritici, Scirtothrips citri, Thrips oryzae, Thrips palmi* y *Thrips tabaci*,

hormigas, abejas, avispas, tábanos del orden *Athalia rosae, Atta cephalotes, Atta cephalotes, Atta laevigata, Atta robusta, Atta capiguara, Atta sexdens, Atta texana, Crematogaster spp., Hoplocampa minuta, Hoplocampa testudinea, Monomorium pharaonis, Solenopsis geminata*, y *Solenopsis invicta, Solenopsis richteri, Solenopsis xyloni, Pogonomyrmex barbatus, Pogonomyrmex californicus, Pheidole megacephala, Dasymutilla occidentalis, Bombus* spp. *Vespula squamosa, Paravespula vulgaris, Paravespula pennsylvanica, Paravespula germanica, Dolichovespula maculata, Vespa crabro, Polistes rubiginosa, Camponotus floridanus*, y *Linepithema humile*,

del orden *Homoptera*, por ejemplo *Acyrthosiphon onobrychis, Adelges laricis, Aphidula nasturtii, Aphis craccivora, Aphis fabae, Aphis forbesi, Aphis pomi, Aphis gossypii, Aphis grossulariae, Aphis schneideri, Aphis spiraecola, Aphis sambuci, Acyrthosiphon pisum, Aulacorthum solani, Bemisa tabaci, Bemisa argentifolii, Brachycaudus cardui, Brachycaudus helichrysi, Brachycaudus persicae, Brachycaudus prunicola, Brevicoryne brassicae, Capitophorus horni, Cerosipha gossypii, Chaetosiphon fragaefolii, Cryptomyzus ribis, Dreyfusia nordmannianae, Dreyfusia piceae, Dysaphis radicola, Dysaulacorthum pseudosolani, Dysaphis plantaginea, Dysaphis pyri, Empoasca fabae, Hyalopterus pruni, Hyperomyzus lactucae, Macrosiphum avenae, Macrosiphum euphorbiae, Macrosiphon rosae, Megoura viciae, Melanaphis pyrarius, Metopolophium dirhodum, Myzodes persicae, Myzus ascalonicus, Myzus cerasi, Myzus varians, Nasonovia ribis–nigri, Nilaparvata lugens, Pemphigus bursarius, Perkinsiella saccharicida, Phorodon humuli, Psylla mali, Psylla piri, Rhopalomyzus ascalonicus, Rhopalosiphum maidis, Rhopalosiphum padi, Rhopalosiphum insertum, Sappaphis mala, Sappaphis mali, Schizaphis graminum, Schizoneura lanuginosa, Sitobion avenae, Trialeurodes vaporariorum, Toxoptera aurantiiand,* y *Viteus vitifolii,*

del orden *Isoptera* (termitas), por ejemplo *Calotermes flavicollis, Heterotermes aureus, Leucotermes flavipes, Reticulitermes flavipes, Reticulitermes virginicus, Reticulitermes lucifugus,* y *Termes natalensis*, y *Coptotermes formosanus,*

cucarachas (*Blattaria – Blattodea*), por ejemplo *Blattella germanica, Blattella asahinae, Periplaneta americana, Periplaneta japonica, Periplaneta brunnea, Periplaneta fuligginosa, Periplaneta australasiae*, y *Blatta orientalis*,

insectos verdaderos (*Hemiptera*), por ejemplo, *Acrosternum hilare, Blissus leucopterus, Cyrtopeltis notatus, Dysdercus cingulatus, Dysdercus intermedius, Eurygaster integriceps, Euschistus impictiventris, Leptoglossus phyllopus, Lygus lineolaris, Lygus pratensis, Nezara viridula, Piesma quadrata, Solubea insularis , Thyanta perditor, Acyrthosiphon onobrychis, Adelges laricis, Aphidula nasturtii, Aphis fabae, Aphis forbesi, Aphis pomi, Aphis gossypii, Aphis grossulariae, Aphis schneideri, Aphis spiraecola, Aphis sambuci, Acyrthosiphon pisum, Aulacorthum solani, Bemisia argentifolii, Brachycaudus cardui, Brachycaudus helichrysi, Brachycaudus persicae, Brachycaudus prunicola, Brevicoryne brassicae, Capitophorus horni, Cerosipha gossypii, Chaetosiphon fragaefolii, Cryptomyzus ribis, Dreyfusia nordmannianae, Dreyfusia piceae, Dysaphis radicola, Dysaulacorthum pseudosolani, Dysaphis plantaginea, Dysaphis pyri, Empoasca fabae, Hyalopterus pruni, Hyperomyzus lactucae, Macrosiphum avenae, Macrosiphum euphorbiae, Macrosiphon rosae, Megoura viciae, Melanaphis pyrarius, Metopolophium dirhodum, Myzus persicae, Myzus ascalonicus, Myzus cerasi, Myzus varians, Nasonovia ribis–nigri, Nilaparvata lugens, Pemphigus bursarius, Perkinsiella saccharicida, Phorodon humuli, Psylla mali, Psylla piri, Rhopalomyzus ascalonicus, Rhopalosiphum maidis, Rhopalosiphum padi, Rhopalosiphum insertum, Sappaphis mala, Sappaphis mali, Schizaphis graminum, Schizoneura lanuginosa, Sitobion avenae, Trialeurodes vaporariorum, Toxoptera aurantiiand, Viteus vitifolii, Cimex lectularius, Cimex hemipterus, Reduvius senilis,*

Triatoma spp., y *Arilus critatus*,
grillos, langostas verdes, langostas del orden *Orthoptera*), por ejemplo *Acheta domestica, Blatta orientalis, Blattella germanica, Calliptamus italicus, Chortoicetes terminifera, Dociostaurus maroccanus, Forficula auricularia, Gryllotalpa gryllotalpa, Hieroglyphus daganensis, Kraussaria angulifera, Locusta migratoria, Locustana pardalina, Melanoplus bivittatus, Melanoplus femur–rubrum, Melanoplus mexicanus, Melanoplus sanguinipes, Melanoplus spretus, Nomadacris septemfasciata, Oedaleus senegalensis, Periplaneta americana, Schistocerca americana, Schistocerca peregrina, Schistocerca gregaria, Stauronotus maroccanus* y, *Tachycines asynamorus, Tachycines asynamorus, Zonozerus variegatus.*

Los compuestos de la fórmula (I) y sus sales también son útiles para controlar arácnidos (*Arachnoidea*), tales como acarios (*Acarina*), por ejemplo de las familias *Argasidae, Ixodidae* y *Sarcoptidae,* tales como *Amblyomma americanum, Amblyomma variegatum, Ambryomma maculatum, Argas persicus, Boophilus annulatus, Boophilus decoloratus, Boophilus microplus, Dermacentor silvarum, Dermacentor andersoni, Dermacentor variabilis, Hyalomma truncatum, Ixodes ricinus, Ixodes rubicundus, Ixodes scapularis, Ixodes holocyclus, Ixodes pacificus, Ornithodorus hermsi, Ornithodorus turicata, Ornithonyssus bacoti, Ornithodorus moubata, Otobius megnini, Dermanyssus gallinae, Psoroptes ovis, Rhipicephalus sanguineus, Rhipicephalus appendiculatus, Rhipicephalus evertsi, Sarcoptes scabiei,* y Eriophyidae spp. tales como *Aculus schlechtendali, Phyllocoptrata oleivora* y *Eriophyes sheldoni*; Tarsonemidae spp. tales como *Phytonemus pallidus* y *Poliphagotarsonemus latus*; Tenuipalpidae spp. tales como *Brevipalpus phoenicis;* Tetranychidae spp. tales como *Tetranychus cinnabarinus, Tetranychus kanzawai, Tetranychus pacificus, Tetranychus telarius* y *Tetranychus urticae, Panonychus ulmi, Panonychus citri, y Oligonychus pratensis* y *Oligonychus pratensis*; Araneida, por ejemplo *Latrodectus mactans*, y *Loxosceles reclusa*,
pulgas (*Sifonaptera*), por ejemplo *Ctenocephalides felis, Ctenocephalides canis, Xenopsylla cheopis, Pulex irritans, Tunga penetrans*, y *Nosopsyllus fasciatus,*
lepisma, cocuyo (*Thysanura*), por ejemplo *Lepisma saccharina* y *Thermobia domestica,*
cienpiés (*Chilopoda*), por ejemplo *Scutigera coleoptrata,*
milpiés (*Diplopoda*), por ejemplo *Narceus spp.*,
tábanos (*Dermaptera),* por ejemplo *Forficula auricularia,*
piojos (*Phthiraptera*), por ejemplo *Pediculus humanus capitis, Pediculus humanus corporis, Pthirus pubis, Haematopinus eurysternus, Haematopinus suis, Linognathus vituli, Bovicola bovis, Menopon gallinae, Menacanthus stramineus* y *Solenopotes capillatus.*

Los compuestos de la fórmula (I), sus N–óxidos y sus sales también son útiles para controlar nematodos, por ejemplo, nematodos de raíces, por ejemplo *Meloidogyne hapla, Meloidogyne incognita, Meloidogyne javanica, cyst–forming nematodes,* por ejemplo *Globodera rostochiensis, Heterodera avenae, Heterodera glycines, Heterodera schachtii,*

Heterodera trifolii, nematodos del tallo y la hoja, por ejemplo *Belonolaimus longicaudatus, Ditylenchus destructor, Ditylenchus dipsaci, Heliocotylenchus multicinctus, Longidorus elongatus, Radopholus similis, Rotylenchus robustus, Trichodorus primitivus, Tylenchorhynchus claytoni, Tylenchorhynchus dubius, Pratylenchus neglectus, Pratylenchus penetrans, Pratylenchus curvitatus y Pratylenchus goodeyi.*

Los compuestos de la fórmula (I) son particularmente útiles para controlar insectos del orden *Lepidoptera.*

En general, las composiciones insecticidas comprenden de 0,01 a 95% en peso, de preferencia de 0,1 a 90% en peso, del compuesto activo. Los compuestos activos se emplean con una pureza de 90% a 100%, de preferencia de 95% a 100% (de acuerdo con el espectro RMN).

En condiciones de exterior, la tasa de aplicación del compuesto activo para controlar plagas es de 0,1 a 2,0, de preferencia de 0,2 a 1,0, kg/ha.

Los compuestos (I), sus N–óxidos y sales se pueden convertir en las formulaciones habituales (formulaciones agrícolas), por ejemplo soluciones, emulsiones, suspensiones, polvos, polvillos, pastas y granules. La forma de aplicación depende del objeto particular pretendido; en cada caso, debería asegurar una distribución fina y uniforme del compuesto de acuerdo con la invención.

Las formulaciones se preparan en una forma conocida, por ejemplo por extensión del ingrediente activo con solventes y/o portadores, si se desea mediante el uso de emulsificadores y dispersantes. Los solventes/auxiliares adecuados son esencialmente:

- agua, solventes aromáticos (por ejemplo productos Solvesso®, xileno), parafinas (por ejemplo fracciones minerales), alcoholes (por ejemplo metanol, butanol, pentanol, alcohol bencílico), cetonas (por ejemplo ciclohexanona, gamma–butirolactona), pirrolidonas (N–metilpirrolidona, N–octilpirrolidona), acetatos (diacetato de glicol), glicoles, dimetilamidas del ácido graso, ácidos grasos y ésteres de ácidos grasos. En principio, también se pueden emplear mezclas de disolventes.
- portadores tales como harinas minerales naturales (por ejemplo, caolines, arcillas, talco, creta) y harinas minerales sintéticas (por ejemplo, sílice finamente dividida, silicatos); emulsionantes tales como emulsionantes no iónicos y aniónicos (por ejemplo, éter de alcohol graso de polioxietileno, alquilsulfonatos y arilsulfonatos) y dispersantes tales como lejías residuales de lignosulfito y metilcelulosa.

Los tensioactivos apropiados son las sales alcalinas, las sales alcalinotérreas y las sales de amonio de ácido lignosulfónico, ácido naftalensulfónico, ácido fenolsulfónico, ácido dibutilnaftalensulfónico, alquilarilsulfonatos, alquilsulfatos, alquilsulfonatos, sulfatos de alcoholes grasos, ácidos grasos y glicoléteres de alcoholes grasos sulfatados, también condensados de naftaleno o ácido naftalensulfónico con fenol y formaldehído, polioxietilenoctilfenoléter, isooctilfenol, octilfenol, nonilfenol etoxilado, alquilfenolpoliglicoléter, tributilfenilpoliglicoléter, triestearilfenilpoliglicoléter,

alquilarilpolieteralcoholes, condensados de óxido de etileno de alcoholes y alcoholes grasos, aceite de ricino etoxilado, polioxietilenalquiléter, polioxipropileno etoxilado, poliglicoleteracetal de alcohol láurico, ésteres de sorbitol, lejías de lignosulfito y metilcelulosa.

Las sustancias que son adecuadas para la preparación de soluciones, emulsiones, pastas o dispersiones oleosas para aspersión directa son fracciones de aceite mineral de punto de ebullición medio a alto, tales como queroseno o dieseloil, además de aceites de alquitrán de carbón y aceites de origen vegetal o animal, hidrocarburos alifáticos, cíclicos y aromáticos, por ejemplo tolueno, xileno, parafina, tetrahidronaftaleno, naftalenos alquilados o sus derivados, metanol, etanol, propanol, butanol, ciclohexanol, ciclohexanona, isoforona, solventes muy polares, por ejemplo dimetilsulfóxido, N–metilpirrolidona y agua.

También se pueden añadir agentes anticongelantes tales como glicerina, etilenglicol y propilenglicol a la formulación.

Son agentes antiespumantes adecuados, por ejemplo, los basados en silicona o estearato de magnesio.

Los polvos, materiales de aspersión y polvillos se pueden preparar por mezcla o molienda concomitante de las sustancias activas con un portador sólido.

Los gránulos, por ejemplo, los gránulos recubiertos, los gránulos impregnados y los gránulos homogéneos, pueden preparase por unión de los ingredientes activos a portadores sólidos. Los portadores sólidos son, por ejemplo, tierras minerales como geles de sílice, silicatos, talco, caolín, carbonato de calcio, cal, creta, bolus alba, loess, arcilla, dolomita, tierra de diatomeas, sulfato de calcio, sulfato de magnesio, óxido de magnesio, plásticos triturados, fertilizantes tales como sulfato de amonio, fosfato de amonio, nitrato de amonio, ureas y productos vegetales tales como harina de cereales, harina de la corteza de los árboles, de la madera y de las cáscaras de las nueces, polvo de celulosa y otros portadores sólidos.

Las formulaciones para el tratamiento de semillas también pueden comprender aglutinantes y/o agentes gelantes y opcionalmente colorantes.

Se pueden agregar aglutinantes as fin de incrementar la adhesión de los compuestos activos a las semillas después del tratamiento. Los aglutinantes adecuados son, por ejemplo, agentes tensioactivos de copolímeros en bloque EO/PO, pero también alcoholes polivinílicos, polivinilpirrolidonas, poliacrilatos, polimetacrilatos, polibutenos, poliisobutilenos, poliestirenos, polietilenaminas, polietilenamidas, polietileniminas (Lupasol®, Polymin®), poliéteres, poliuretanos, acetatos de polivinilo, tilosa y copolímeros de estos polímeros.

Un agente gelante adecuado es, por ejemplo, carragenano (Satiagel®).

En general, las formulaciones comprenden de 0,01 a 95% en peso, de preferencia de 0,1 a 90% en peso, del compuesto activo. Los compuestos activos se emplean con una pureza de 90% a 100%, de preferencia de 95% a 100% (de acuerdo con el espectro de RMN).

Las concentraciones de compuesto activo en las preparaciones listas para usar se pueden variar dentro de rangos relativamente amplios. En general, son de entre 0,0001 y 10%, de preferencia entre 0,01 y 1%.

Los compuestos activos también se pueden usar con gran éxito en el proceso de volumen ultrabajo (ULV), en donde es posible aplicar formulaciones con más del 95% en peso de compuesto activo o incluso el compuesto activo sin aditivos.

Para el tratamiento de la semilla, las formulaciones en cuestión dan, después de diluciones de al medio al décimo, concentraciones de compuesto activo de 0,01 a 60% en peso, de preferencia de 0,1 a 40% en peso, en las preparaciones listas para usar.

Los siguientes son ejemplos de formulaciones:

1. Productos para la dilución con agua

A) Concentrados hidrosolubles (SL, LS)

10 partes en peso de un compuesto I de acuerdo con la invención se disuelven en 90 partes en peso de agua o en un solvente hidrosoluble. Como alternativa, se agregan agentes humectantes u otros auxiliares. El compuesto activo se disuelve por dilución con agua. De esta manera, se obtiene una formulación que tiene un contenido de 10% en peso del compuesto activo.

B) Concentrados dispersables (DC)

20 partes en peso de un compuesto I de acuerdo con la invención se disuelven en 70 partes en peso de ciclohexanona con adición de 10 partes en peso de un dispersante, por ejemplo polivinilpirrolidona. La dilución con agua produce una dispersión. El contenido de compuesto activo es del 20% en peso.

C) Concentrados emulsionables (EC)

15 partes en peso de un compuesto I de acuerdo con la invención se disuelven en 75 partes en peso de xileno con adición de dodecilbencenosulfonato de calcio y etoxilato de aceite de ricino (en cada caso 5 partes en peso). La dilución con agua da una emulsión. La formulación tiene un contenido de compuesto activo del 15% en peso.

D) Emulsiones (EW, EO, ES)

25 partes en peso de un compuesto I de acuerdo con la invención se disuelven en 35 partes en peso de xileno con adición de dodecilbencensulfonato de sodio y etoxilato de aceite de ricino (en cada caso 5 partes en peso). Esta mezcla se introduce en 30 partes en peso de agua mediante una máquina emulsionante (Ultraturrax) y se prepara en una emulsión homogénea. La dilución con agua produce una emulsión. La formulación tiene un contenido de compuesto activo del 25% en peso.

E) Suspensiones (SC, OD, FS)

En un molino de bolas agitado, 20 partes en peso de compuesto (I) de acuerdo con la invención se mezclan con adición de 10 partes en peso de agentes dispersantes, humectantes y 70 partes en peso de agua o un disolvente orgánico para dar una fina suspensión de compuesto activo. La dilución con agua produce una suspensión estable del compuesto activo. El contenido de compuesto activo en la formulación es del 20% en peso.

F) Gránulos dispersables en agua y gránulos hidrosolubles (WG, SG)

50 partes en peso de un compuesto I de acuerdo con la invención se muelen finamente con adición de 50 partes en peso de agentes dispersantes y humectantes y se preparan como gránulos hidrodispersantes o hidrosolubles mediante aparatos técnicos (por ejemplo extrusión, torre de aspersión, lecho fluido). Por dilución con agua se obtiene una dispersión estable o solución del compuesto activo. La formulación tiene un contenido de compuesto activo del 50% en peso.

G) Polvos dispersables en agua y polvos hidrosolubles (WP, SP, SS, WS)

75 partes en peso de un compuesto I de acuerdo con la invención se muelen en un molino rotor–estator con adición de 25 partes en peso de dispersantes, agentes humectantes y gel de sílice. La dilución con agua produce una dispersión estable o solución del compuesto activo. El contenido de compuesto de la formulación es del 75% en peso.

H) Gel (GF)

En un molino de bolas agitado, 20 partes en peso de un compuesto I de acuerdo con la invención se trituran con adición de 10 partes en peso de dispersantes, 1 parte en peso de un humectante de agente gelante y 70 partes en peso de agua o de un disolvente orgánico para dar una suspensión finamente dividida del compuesto activo. La dilución con agua produce una suspensión estable del compuesto activo, por lo que se obtiene una formulación con 20% (p/p) de compuesto activo.

2. Productos para aplicar sin dilución

J) Polvos para formar polvillo (DP, DS)

5 partes en peso de un compuesto I de acuerdo con la invención muelen finamente y se mezclan bien con 95 partes en peso de caolín finamente dividido. Así se obtiene un polvillo que contiene 5% en peso de compuesto activo.

K) Gránulos (GR, FG, GG, MG)

0,5 partes en peso de un compuesto I de acuerdo con la invención se muelen finamente y se combinan con 99,5 partes en peso de portadores. Los métodos actuales son extrusión, secado por aspersión o lecho fluido. Así se obtienen gránulos que se aplican sin diluir con un contenido de compuesto activo del 0,5% en peso.

L) Soluciones ULV (UL)

10 partes en peso de un compuesto I de acuerdo con la invención se disuelven en 90 partes en peso de un solvente orgánico, por ejemplo, xileno. Así se obtiene un producto para aplicar sin diluir que tiene un contenido de compuesto activo del 10% en peso.

Los ingredientes activos se pueden usar como tales, en la forma de sus formulaciones o la forma de aplicación preparada de ellas, por ejemplo en la forma de soluciones rociables directamente, polvos, suspensiones o dispersiones, incluso suspensiones o dispersiones acuosas, oleosas o de otro tipo altamente concentradas, emulsiones, dispersiones oleosas, pastas, polvillos, composiciones para voleo o gránulos.

La aplicación generalmente es por rociado, atomización, espolvoreado, voleo o riego. Las formas de uso dependen totalmente de usos pretendidos; en cada caso, deben asegurar la distribución más fina posible de los ingredientes activos de acuerdo con la invención.

Las formas de aplicación acuosas se pueden preparar a partir de concentrados de emulsión, pastas o polvos humectables (polvos para rociar, dispersiones oleosas) por adición de agua. Para preparar emulsiones, pastas o dispersiones oleosas, los compuestos activos como tales o disueltos en un aceite o solvente, se pueden homogeneizar en agua mediante un humectante, viscosante, dispersante o emulsionante. Alternativamente, es posible concentrados compuestos por sustancia activa, humectante, viscosante, dispersante o emulsionante y, si corresponde, disolvente o aceite, y dichos concentrados son adecuados para la dilución con agua.

Las concentraciones de ingrediente activo en los productos listos para usar se pueden variar dentro de intervalos relativamente amplios. En general, varían de 0,0001 a 10%, de preferencia de 0,01 a 1%.

Los ingredientes activos se pueden usar también con éxito en el proceso de volumen ultra reducido (ULV), por el cual es posible aplicar formulaciones que comprenden más del 95% en peso de ingrediente activo, o incluso aplicar los ingredientes activos sin aditivos

Diversos tipos de aceites, humectantes, coadyuvantes, herbicidas, fungicidas, otros plaguicidas, o bactericidas se pueden agregar a los compuestos activos, si corresponde, justo antes de usar (mezclado en tanque). Estos agentes se pueden mezclar en una relación en peso de 1:10 a 10:1 con los agentes de acuerdo con la invención.

Las composiciones de acuerdo con la invención también pueden estar presentes en la forma de uso como fungicidas junto con otros compuestos activos, por ejemplo con herbicidas, insecticidas, reguladores del crecimiento, fungicidas o con fertilizantes. La mezcla de los compuestos (I) o las composiciones que los comprenden en la forma de uso como fungicidas con otros fungicidas da por resultado en muchos casos una expansión de los espectros de actividad fungicida obtenidos.

La siguiente lista de fungicidas, en conjunción con los cuales se pueden usar los compuestos de acuerdo con la invención, pretende ilustrar las posibles combinaciones, sin limitarlas:

- acilalaninas, tales como benalaxilo, metalaxilo, ofurace o oxadixilo,
- derivados amina, tales como aldimorf, dodina, dodemorf, fenpropimorf, fenpropidina, guazatina, iminoctadina, espiroxamina o tridemorf,
- anilinopirimidinas, tales como pirimetanilo, mepanipirim o ciprodinilo,
- antibióticos, tales como cicloheximida, griseofulvina, kasugamicina, natamicina, polioxina o estreptomicina,
- azoles, tales como bitertanol, bromoconazol, ciproconazol, difenoconazol, dinitroconazol, enilconazol, epoxiconazol, fenbuconazol, fluquinconazol, flusilazol, flutriafol, hexaconazol, imazalilo, ipconazol, metconazol, miclobutanilo, penconazol, propiconazol, procloraz, protioconazol, simeconazol, tebuconazol, tetraconazol,

triadimefona, triadimenol, triflumizol o triticonazol,

- dicarboximidas, tales como iprodiona, miclozolina, procimidona o vinclozolina,
- ditiocarbamatos, tales como ferbam, nabam, maneb, mancozeb, metam, metiram, propineb, policarbamato, tiram, ziram o zineb,
- compuestos heterocíclicos, tales como anilazina, benomilo, boscalida, carbendazima, carboxina, oxicarboxina, ciazofamida, dazomet, ditianona, famoxadona, fenamidona, fenarimol, fuberidazol, flutolanilo, furametpir, isoprotiolano, mepronilo, nuarimol, picobenzamida, probenazol, proquinazida, pirifenox, piroquilona, quinoxifeno, siltiofam, tiabendazol, tifluzamida, tiofanato de metilo, tiadinilo, triciclazol o triforina,
- fungicidas de cobre, tales como mezcla Bordeaux, acetato de cobre, oxicloruro de cobre o sulfato básico de cobre,
- derivados de nitrofenilo, tales como binapacrilo, dinocap, dinobutona o nitroftal–isopropilo,
- fenilpirroles, tales como fenpiclonilo o fludioxonilo,
- azufre,
- otros fungicidas, tales como acibenzolar–S–metilo, bentiavalicarb, carpropamida, clorotalonilo, ciflufenamida, cimoxanilo, diclomezina, diclocimet, dietofencarb, edifenfos, etaboxam, fenhexamida, acetato de fentino, fenoxanilo, ferimzona, fluazinam, fosetilo, fosetil–aluminio, ácido fosforoso, iprovalicarb, hexaclorobenceno, metrafenona, pencicurona, pentropirad, propamocarb, ftalida, toloclofosmetilo, quintozeno o zoxamida,
- estrobilurinas, tales como azoxistrobina, dimoxistrobina, enestroburina, fluoxastrobina, cresoximmetilo, metominostrobina, orisastrobina, picoxistrobina, piraclostrobina o trifloxistrobina,
- derivados de ácido sulfénico, tales como captafol, captano, diclofluanida, folpet o tolilfluanida,
- cinamidas y compuestos análogos, tales como dimetomorf, flumetover o flumorf.

Las composiciones de la presente invención también pueden contener otros ingredientes activos, por ejemplo otros plaguicidas tales como insecticidas y herbicidas, fertilizantes como nitrato de amonio, urea, potasa y superfosfato, fitotóxicos y reguladores del crecimiento vegetal, aseguradores y nematicidas. Estos ingredientes adicionales en forma secuencial o en combinación con las composiciones antes descritas, de ser adecuado también se pueden añadir solo inmediatamente antes del uso (mezcla en tanque). Por ejemplo, la(s) planta(s) se pueden rociar con una composición de la presente invención antes o después de ser tratadas con otros ingredientes activos.

Estos agentes usualmente se mezclan con los agentes de acuerdo con la invención en una relación en peso de 1:100 a 100:1.

La siguiente es una lista de plaguicidas con los cuales se pueden usar los

compuestos de acuerdo con la invención; son ellos se pretenden ilustrar las posibles combinaciones, pero sin imponer ninguna limitación:

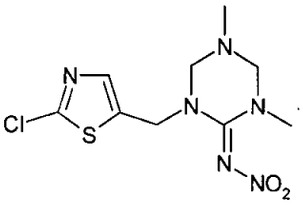
A.1. Organo(tio)fosfatos: por ejemplo acefato, azametifos, azinfosmetilo, clorpirifos, clorpirifosmetilo, clorfenvinfos, diazinona, diclorvos, dicrotofos, dimetoato, disulfotona, etiona, fenitrotiona, fentiona, isoxationa, malationa, metamidofos, metidationa, metil–paration a, mevinfos, monocrotofos, oxidemetonmetilo, paraoxona, paration a, fentoato, fosalona, fosmet, fosfamidona, forato, foxim, pirimifosmetilo, profenofos, protiofos, sulprofos, tetraclorvinfos, terbufos, triazofos, triclorfona;

A.2. Carbamatos: por ejemplo alanicarb, aldicarb, bendiocarb, benfuracarb, carbarilo, carbofurano, carbosulfano, fenoxicarb, furatiocarb, metiocarb, metomilo, oxamilo, pirimicarb, propoxur, tiodicarb, triazamato;

A.3. Piretroides: por ejemplo aletrina, bifentrina, ciflutrina, cihalotrina, cifenotrina, cipermetrina, alfa–cipermetrina, beta–cipermetrina, zeta–cipermetrina, deltametrina, esfenvaleriato, etofenprox, fenpropatrina, fenvaleriato, imiprotrina, lambda–cihalotrina, permetrina, praletrina, piretrina I y II, resmetrina, silafluofeno, tau–fluvalinato, teflutrina, tetrametrina, tralometrina, transflutrina, proflutrina, dimeflutrina;

A.4. Reguladores del crecimiento: a) inhibidores de síntesis de quitina: por ejemplo benzoilureas: clorfluazurona, diflubenzurona, flucicloxurona, flufenoxurona, hexaflumurona, lufenurona, novalurona, teflubenzurona, triflumurona; buprofezina, diofenolano, hexitiazox, etoxazol, clofentazina; b) antagonistas de ecdisona: por ejemplo halofenozida, metoxifenozida, tebufenozida, azadiractina; c) juvenoides: por ejemplo piriproxifeno, metopreno, fenoxicarb; d) inhibidores de la biosíntesis de lípidos: por ejemplo espirodiclofeno, espiromesifeno o espirotetramato;

A.5. Compuestos agonistas/antagonistas de receptor nicotínico (insecticidas nicotinoides o neonicotinoides): por ejemplo clotianidina, dinotefurano, imidacloprida, tiametoxam, nitenpiram, acetamiprida, tiacloprida o el compuesto tiazol de fórmula P1



(P1)

A.6. Compuestos antagonistas de GABA: por ejemplo acetoprol, endosulfano, etiprol, fipronilo, vaniliprol, pirafluprol, piriprol, 5–amino–3–(aminotiocarbonil)–1–(2,6–dicloro–4–trifluorometilfenil)–4–(trifluorometilsulfinil)–pirazol;

A.7. Insecticidas macrocíclicos de lactona: abamectina, emamectina, milbemectina, lepimectina, espinosad,

A.8. Inhibidores de transporte de electrones del complejo mitocondrial I (compuestos METI I): por ejemplo fenazaquina, piridabeno, tebufenpirad, tolfenpirad, flufenerim;

A.9. Inhibidores de transporte de electrones del complejo mitocondrial II y/o el complejo III (compuestos METI II y III): por ejemplo acequinocilo, fluaciprim, hidrametilnona;

A.10. Compuestos desacopladores: por ejemplo clorfenapir;

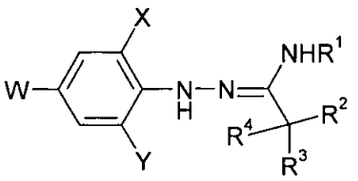
A.11. Compuestos inhibidores de fosforilación oxidativa: cihexatina, diafentiurona, óxido de fenbutatina, propargita;

A.12. Compuestos disruptores de moho: por ejemplo ciromazina;

A.13. Compuestos inhibidores de oxidasa de función mixta: por ejemplo butóxido de piperonilo;

A.14. Compuestos bloqueadores de canales de sodio: por ejemplo indoxacarb, metaflumizona,

A.15. Diversos: benclotiaz, bifenazato, cartap, flonicamida, piridalilo, pimetrozina, azufre, tiociclam, flubendiamida, cienopirafeno, flupirazofos, ciflumetofeno, amidoflumet, compuestos de la fórmula P2:



(P2)

en donde X e Y son cada uno independientemente halógeno, en particular cloro;

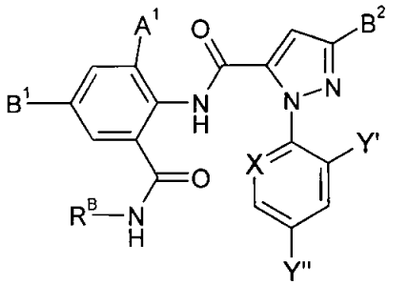
W es halógeno o haloalquilo C_1–C_2, en particular trifluorometilo;

R^1 es alquilo C_1–C_6, alquenilo C_2–C_6, alquinilo C_2–C_6, alcoxi C_1–C_4–alquilo C_1–C_4 o cicloalquilo C_3–C_6 cada uno de los cuales puede ser sustituido con 1, 2, 3, 4 o 5 átomos de halógeno; en particular R^1 es metilo o etilo;

R^2 y R^3 son alquilo C_1–C_6, en particular metilo, o pueden formar juntos con el átomo de carbono adyacente un residuo cicloalquilo C_3–C_6, en particular un residuo ciclopropilo, que puede portar 1, 2 ó 3 átomos de halógeno, en donde los ejemplos incluyen 2,2–diclorociclopropilo y 2,2–dibromociclopropilo; y

R^4 es hidrógeno o alquilo C_1–C_6, en particular metil– o etilhidrógeno;

compuestos antranilamida de fórmula P3



P3

en donde A^1 es CH_3, Cl, Br, I, X es C–H, C–Cl, C–F o N, Y' es F, Cl, o Br, Y'' es F, Cl, CF_3, B^1 es hidrógeno, Cl, Br, I, CN, B^2 es Cl, Br, CF_3, OCH_2CF_3, OCF_2H, y R^B es hidrógeno, CH_3 o $CH(CH_3)_2$;

y los compuestos malononitrilo descritos en los documentos JP 2002/284608, WO 02/89579, WO 02/90320, WO 02/90321, WO 04/06677, WO 04/20399 o JP 2004/99597.

Los compuestos plaguicidas adecuados también incluyen microorganismos tales como *Bacillus thuringiensis, Bacillus tenebrionis* y *Bacillus subtilis.*

Las composiciones antes mencionadas son particularmente útiles para proteger plantas contra la infestación por dichas plagas y también para proteger plantas contra

infecciones de hongos fitopatógenos o combatir estas plagas/hongos en plantas infestadas/infectadas.

Sin embargo, los compuestos de fórmula (I) también son adecuados para el tratamiento de semillas. La aplicación de las semillas se realiza antes de la siembra, en forma directa sobre las semillas o después de que estas hayan germinado.

Las composiciones que son de utilidad para el tratamiento de semillas son por ejemplo:

A Concentrados solubles (SL, LS)

D Emulsiones (EW, EO, ES)

E Suspensiones (SC, OD, FS)

F Gránulos dispersables en agua y gránulos solubles en agua (WG, SG)

G Polvos dispersables en agua y polvos solubles en agua (WP, SP, WS)

H Polvos transformables en polvillo (DP, DS)

Las formulaciones FS preferidas de compuestos de fórmula (I) para el tratamiento de semilla usualmente comprende de 0,5 a 80% del ingrediente activo, de 0,05 a 5% de un humectante, de 0,5 a 15% de un agente dispersante, de 0,1 a 5% de un espesante, de 5 a 20% de un agente anticongelante, de 0,1 a 2% de un agente antiespumante, de 1 a 20% de un pigmento y/o un colorante, de 0 a 15% de un adhesivo / agente de adhesión, de 0 a 75% de un relleno /vehículo, y de 0,01 a 1% de un conservante.

Los pigmentos o colorantes adecuados para las formulaciones de tratamiento de semillas son pigmento azul 15:4, pigmento azul 15:3, pigmento azul 15:2, pigmento azul 15:1, pigmento azul 80, pigmento amarillo 1, pigmento amarillo 13, pigmento rojo 112, pigmento rojo 48:2, pigmento rojo 48:1, pigmento rojo 57:1, pigmento rojo 53:1, pigmento naranja 43, pigmento naranja 34, pigmento naranja 5, pigmento verde 36, pigmento verde 7, pigmento blanco 6, pigmento marrón 25, básico violeta 10, básico violeta 49, ácido rojo 51, ácido rojo 52, ácido rojo 14, ácido azul 9, ácido amarillo 23, básico rojo 10, básico rojo 108.

Los adhesivos/agentes de adhesión se añaden para mejorar la adhesión de los materiales activos sobre las semillas después del tratamiento. Los adhesivos adecuados son agentes tensioactivos de copolímeros de bloque EO/PO pero también alcoholes polivinílicos, polivinilpirrolidonas, poliacrilatos, polimetacrilatos, polibutenos, poliisobutilenos, poliestireno, polietilenaminas, polietilenamidas, polietileniminas (Lupasol®, Polymin®), poliéteres y copolímeros derivados de estos polímeros.

Para el uso contra hormigas, termitas, avispas, moscas, mosquitos, grillos o cucarachas, los compuestos de fórmula (I) de preferencia se usan en una composición de cebo.

El cebo puede ser una preparación líquida, sólida o semisólida (por ejemplo un gel). Los cebos sólidos se pueden formar con distintas formas y conformaciones adecuadas para la respectiva aplicación, por ejemplo gránulos, bloques, barras, discos. Los cebos líquidos pueden estar como relleno de diversos dispositivos a fin de asegurar la correcta aplicación, por ejemplo recipientes abiertos, dispositivos de aspersión, fuentes de

goteo o fuentes de evaporación. Los geles se pueden basar en matrices acuosas u oleosas y se pueden formular de acuerdo con las necesidades particulares en términos de las características de adhesividad, retención de humedad o envejecimiento.

El cebo empleado en la composición es un producto suficientemente atractivo para incitar a insectos tales como hormigas, termitas, avispas, moscas, mosquitos, grillos, etc. o cucarachas a que lo coma. La atracción se puede manipular mediante el uso de estimulantes de alimentación o feromonas sexuales. Los estimulantes de alimentación se eligen, por ejemplo, pero no exclusivamente, de proteínas animales y/o vegetales (harina de carne, de pescado o de sangre, partes de insectos, yema de huevo), de grasas y aceites de origen animal y/o vegetal, o mono, oligo– o poliorganosacáridos, especialmente de sacarosa, lactosa, fructosa, dextrosa, glucosa, almidón, pectina o incluso melazas o miel. Las partes de frutas frescas o en descomposición, cultivos, plantas, animales, insectos o sus partes específicas también pueden servir como estimulante de alimentación. Las feromonas sexuales son conocidas por ser más específicas de insecto. Las feromonas específicas se describen en la bibliografía y son conocidas por los expertos en la técnica.

Las formulaciones de los compuestos de fórmula (I) como aerosoles (por ejemplo en latas rociadoras), rocíos oleosos o rocíos por bombeo son altamente adecuadas para el usuario no profesional para controlar plagas tales como moscas, pulgas, garrapatas, mosquitos o cucarachas. Las recetas en aerosol de preferencia se componen del compuesto activo, solventes tales como alcoholes inferiores (por ejemplo metanol, etanol, propanol, butanol), cetonas (por ejemplo acetona, metiletilcetona), hidrocarburos parafinados (por ejemplo querosenos) con rangos de ebullición de aproximadamente 50 a 250 °C, dimetilformamida, N–metilpirrolidona, dimetilsulfóxido, hidrocarburos aromáticos tales como tolueno, xileno, agua, además de auxiliares tales como emulsificantes tales como monooleato de sorbitol, etoxilato de oleílo con 3–7 moles de óxido de etileno, etoxilato de alcohol graso, aceites perfumados tales como aceites etéreos, ésteres de ácidos grasos con alcoholes inferiores, compuestos aromáticos de carbonilo, si corresponde estabilizadores tales como benzoato de sodio, agentes tensioactivos anfóteros, epóxidos inferiores, ortoformiato de etilo y, si se requiere, propulsores tales como propano, butano, nitrógeno, aire comprimido, éter dimetilo, dióxido de carbono, óxido nitroso o mezclas de estos gases.

Las formulaciones de rocío difieren de las recetas de aerosol en que no se usan propulsores.

Los compuestos de fórmula (I) y sus respectivas composiciones también se pueden usar en espirales contra mosquitos y de fumigación, carretes de humo, placas vaporizadoras o vaporizadores a largo plazo y también en papeles contra polillas, placas contra polillas u otros sistemas vaporizadores independientes de calor.

Los compuestos de fórmula (I) y sus composiciones se pueden usar para proteger material inanimado, en particular materiales basados en celulosa tales como materiales de madera por ejemplo árboles, cercas, reposeras, etc. y construcciones tales como

viviendas, cabañas, fábricas, pero también materiales de construcción, muebles, cueros, fibras, artículos de vinilo, cableados eléctricos y cables etc. contra hormigas y/o termitas, y para controlar que hormigas y termitas no dañen cultivos o humanos (por ejemplo cuando las plagas invaden viviendas e instalaciones públicas). Los compuestos de fórmula (I) se aplica no solo a la superficie del suelo circundante o en el subsuelo a fin de proteger materiales de madera, pero también se puede aplicar a artículos de madera tales como superficies de concreto de subsuelo, postes de alcobas, tirantes, terciadas, muebles, etc., artículos de madera tales como placas de aglomerado, placas terciadas, etc. y artículos de vinilo tales como cableados eléctricos recubiertos, láminas de vinilo, material aislante de calor tal como espumas de estireno, etc. En el caso de aplicación contra hormigas que dañan cultivos o el ser humano, el controlador de hormigas de la presente invención se aplica a los cultivos o el suelo circundante, o se aplica directamente a los hormigueros o similares.

En los métodos de acuerdo con la invención las plagas son controladas al poner en contacto el parásito/plaga objeto, su provisión de alimentos, hábitat, base de alimentación o su locus con una cantidad efectiva como plaguicida de al menos un compuesto (I), o N–óxido o sal o con una composición, que contiene una cantidad efectiva como plaguicida de al menos un compuesto I, o su N–óxido o sal.

"Locus" significa un hábitat, base de alimentación, planta, semilla, suelo, área, material o ambiente en el cual la plaga o parásito se cultiva o puede crecer.

En general, "cantidad efectiva como plaguicida" significa la cantidad de ingrediente activo necesario para alcanzar un efecto observable sobre el crecimiento, incluso los efectos de necrosis, muerte, retardo, prevención, y extracción, destrucción, o de otro modo disminuir la aparición y la actividad del organismo blanco. La cantidad efectiva como plaguicida puede variar para los diversos compuestos/composiciones usados en la invención. Una cantidad efectiva como plaguicida de las composiciones también puede variar de acuerdo con las condiciones imperantes tales como efecto plaguicida deseado y duración, clima, especies blanco, locus, modo de aplicación y similares.

Los compuestos (I) de la invención también se pueden aplicar preventivamente a sitios en los cuales se espera la aparición de las plagas.

Los compuestos de fórmula (I) también se pueden usar para proteger las plantas en crecimiento del ataque o la infestación por plagas al poner en contacto la planta con una cantidad efectiva como plaguicida de compuestos de fórmula (I). Como tal, "poner en contacto" incluye el contacto directo (aplicación de los compuestos/composiciones directamente en la plaga y/o planta – generalmente sobre el follaje, tallo o raíz de la planta) y contacto indirecto (aplicar los compuestos/composiciones al sitio de la plaga y/o planta).

Los compuestos (I) se emplean tratar los hongos, plagas o las plantas, semillas, materiales o el suelo que se busca proteger contra el ataque de hongos o el ataque de plagas con una cantidad efectiva como fungicida o plaguicida de al menos un compuesto activo I, su N–óxido o sal. La aplicación se puede llevar a cabo antes y después de la

infección / infestación de los materiales, plantas o semillas por los hongos o plagas.

Cuando se emplea en la protección de plantas, las cantidades aplicadas, según el tipo de efecto deseado, en el rango de 0,1 g a 4000 g por hectárea, en forma deseable de 25 g a 600 g por hectárea, en forma más deseable de 50 g a 500 g por hectárea.

En el tratamiento de la semilla, las tasas de aplicación de los compuestos activos son generalmente de 0,001 g a 100 g por kg de semilla, de preferencia de 0,01 g a 50 g por kg de semilla, en particular de 0,01 g a 2 g por kg de semilla.

En el caso de tratamiento de suelo o de aplicación al sitio de hábitat de las plagas o sus nidos, la cantidad de ingrediente activo varía de 0,0001 a 500 g por 100 m^2, de preferencia de 0,001 a 20 g por 100 m^2.

Las tasas de aplicación habituales en la protección de materiales son, por ejemplo, de 0,01 g a 1000 g de compuesto activo por m^2 de material tratado, de preferencia de 0,1 g a 50 g por m^2.

Las composiciones insecticidas para el uso en la impregnación de materiales generalmente contienen de 0,001 a 95 % en peso, de preferencia de 0,1 a 45 % en peso, y con mayor preferencia de 1 a 25 % en peso de al menos un repelente y / o insecticida.

Para el uso en composiciones de cebos, el contenido típico de ingrediente activo es de 0,001 % en peso a 15 % en peso, de manera deseable de 0,001 % en peso a 5 % en peso de compuesto activo.

Para el uso en composiciones para aspersión, el contenido de ingrediente activo es de 0,001 a 80 % en peso de preferencia de 0,01 a 50 % en peso y con mayor preferencia de 0,01 a 15 % en peso.

Cuando se usa en la protección de materiales o productos almacenados, la cantidad de compuesto activo aplicada depende del tipo de área de aplicación y del efecto deseado. Las cantidades habitualmente aplicadas en la protección de materiales son, por ejemplo, 0,001 g a 2 kg, de preferencia 0,005 g a 1 kg, de compuesto activo por metro cúbico de material tratado.

En condiciones al aire libre, la tasa de aplicación de compuesto activo para controlar plagas es de 0,1 a 2,0, de preferencia de 0,2 a 1,0, kg/ha.

Los diversos tipos de aceites, humectantes, coadyuvantes, herbicidas, fungicidas, otros plaguicidas o bactericidas se pueden añadir a los compuesto activos, de ser conveniente no hasta inmediatamente antes del uso (mezclado en tanque). Estos agentes se pueden mezclar con los agentes de acuerdo con la invención en una relación en peso de 1:100 a 100:1, de preferencia 1:10 a 10:1.

Los coadyuvantes que se pueden usar son en particular polisiloxanos orgánicamente modificados tales como Break Thru S 240®; alcoxilatos de alcohol tales como Atplus 245®, Atplus MBA 1303®, Plurafac LF 300® y Lutensol ON 30®; polímeros de bloque EO/PO, z. B. Pluronic RPE 2035® y Genapol B®; etoxilatos de alcohol tales como Lutensol XP 80®; y dioctilsulfosuccinato de sodio tal como Leofen RA®.

Los compuestos de fórmula (I), sus N–óxidos y sales veterinariamente aceptables además de las composiciones que los comprenden también se pueden usar para

controlar y prevenir infestaciones e infecciones en animales incluso animales de sangre caliente (incluso humanos) y peces. Por ejemplo son adecuados para controlar y prevenir infestaciones e infecciones en mamíferos tales como ganado bovino, ovejas, cerdos, camellos, ciervos, caballos, cerdos, aves de corral, conejos, cabras, perros y gatos, búfalo de agua, burros, antílopes y renos, y también en animales con pelo tales como armiño, chinchilla y mapache, aves tales como gallinas, gansos, pavos y patos y peces tales como peces de agua dulce y salada tales como trucha, carpa y anguilas.

Las infestaciones en animales de sangre caliente y peces incluyen, sin limitaciones, piojos, ácaros chupadores, garrapatas, ácaros nasales, insectos picadores, moscas picadoras, moscas muscoides, moscas, larvas de mosca miasíticas, ácaros, mosquitos y pulgas.

Los compuestos de fórmula (I) y las composiciones que los comprenden son adecuados para el control sistémico y/o no sistémico de ecto– y/o endoparásitos. Son activos contra todas o algunas etapas de desarrollo.

La administración se puede llevar a cabo en forma preventiva y terapéutica.

La administración de los compuestos activos (I) se realiza en forma directa o en la forma de preparaciones adecuadas orales, tópicas/dérmicas o parenterales.

Para la administración oral de animales de sangre caliente, los compuestos de fórmula I se pueden formular como alimento animal, alimento animal premezclado, concentrados de alimento animal, píldoras, soluciones, pastas, suspensiones, grageas, geles, comprimidos, bolos y cápsulas. En adición, los compuestos de fórmula I se pueden administrar a los animales en su agua de bebida. Para la administración oral, la forma de dosificación elegida debería proporcionar al animal 0,01 mg/kg a 100 mg/kg de peso corporal animal por día del compuesto de la fórmula I, de preferencia con 0,5 mg/kg a 100 mg/kg de peso corporal animal por día.

Alternativamente, los compuestos de fórmula I, sus N–óxidos y sales se pueden administrar a animales por vía parenteral, por ejemplo, por inyección intrarruminal, intramuscular, intravenosa o subcutánea. Los compuestos de fórmula I se pueden dispersar o disolver en un portador fisiológicamente aceptable para la inyección subcutánea. Alternativamente, los compuestos de fórmula I se pueden formular en un implante para la administración subcutánea. Además, el compuesto de fórmula I puede ser administrado transdérmicamente a los animales. Para la administración parenteral, la forma de dosificación elegida debería proporcionar al animal 0,01 mg/kg a 100 mg/kg de peso corporal animal por día del compuesto de la fórmula I.

Los compuestos de fórmula I también se pueden aplicar tópicamente a los animales en la forma de baños, polvillos, polvos, collares, medallones, rocíos, champúes, formulaciones para aplicar en manchas o volcar y en ungüentos o emulsiones de aceite en agua o de agua en aceite. Para la aplicación tópica, los baños y rocíos usualmente contienen 0,5 ppm a 5.000 ppm y de preferencia 1 ppm a 3.000 ppm del compuesto de la fórmula I. Además, los compuestos de la fórmula I se pueden formular como rótulos de oreja para animales particularmente cuadrúpedos tales como ganado bovino y ovino.

Las preparaciones adecuadas son:

- Soluciones tales como soluciones orales, concentrados para administración oral después de dilución, soluciones para el uso en la piel o en cavidades corporales, formulaciones para volcar, geles;
- Emulsiones y suspensiones para la administración oral o dérmica; preparaciones semisólidas;
- Formulaciones en las cuales el activo se procesa como una base de ungüento de aceite en agua o base de emulsión de agua en aceite;
- Preparaciones sólidas tales como polvos, premezclas o concentrados, gránulos, pellets, comprimidos, bolos, cápsulas; aerosoles y inhalantes, y artículos formados que contienen el compuesto activo.

Generalmente es favorable aplicar formulaciones sólidas que liberan compuestos de fórmula (I) en cantidades totales de 10 mg/kg a 300 mg/kg, de preferencia 20 mg/kg a 200 mg/kg.

Los compuestos activos también se pueden usar como mezcla con sinérgicos o con otros compuesto activos que actúan contra endo– y ectoparásitos patógenos.

En general, los compuestos de fórmula (I) se aplican en cantidad efectiva como parasiticida –lo cual significa la cantidad de ingrediente activo necesario para lograr un efecto observable sobre el crecimiento, incluso los efectos de necrosis, muerte, retardo, prevención, y remoción, destrucción, o de otro modo disminuir la aparición y actividad del organismo blanco. La cantidad con efecto parasiticida puede variar para los diversos compuestos/composiciones usados en la invención. Una cantidad efectiva como parasiticida de las composiciones también puede variar de acuerdo con las condiciones prevalentes tales como efecto parasiticida deseado y duración, especie blanco, modo de aplicación y similares.

Ejemplos de síntesis

Preparación de intermediarios:

I. Preparación de compuestos de pirimidinil–4–ilmetilamina

I.1 Preparación de (2–metil–pirimidin–4–il)–metilamina

I.1.1 4–Dimetoximetil–2–metil–pirimidina

Se mezclaron clorhidrato de acetamidina (3 moles) y 4–dimetilamino–1,1–dimetoxi–but–3–en–2–ona (2 moles) en metanol (500 ml) y la mezcla de reacción se calentó hasta 40 °C. Una solución de metóxido de sodio en metanol (558 g, 30%) se añadió rápidamente y se formó una suspensión marrón. La mezcla de reacción se calentó a reflujo durante 2 h, se enfrió hasta temperatura ambiente durante la noche seguido de evaporación de metanol a presión reducida. El residuo resultante se extrajo en diclorometano (500 ml) y se lavó varias veces con agua (100 mL). El solvente se eliminó para dar 307 g de aceite negro. La destilación de este aceite dio un líquido incoloro con un punto de ebullición de 55–58 °C (0,5 mbar).

I.1.2 Oxima de 2–metil–pirimidin–4–carbaldehído

A una solución de 4–dimetoximetil–2–metil–pirimidina (10 g) de I.1.1 en metanol (100 mL) se añadieron 8,2 g de clorhidrato de hidroxilamina y HCl al 10% y la mezcla de reacción se calentó a reflujo durante 2 h. Tras enfriar hasta temperatura ambiente, el pH se ajustó a 8 usando carbonato de sodio sólido. La mezcla se agitó durante 30 minutos. El sólido se extrajo, se secó a 50 °C a presión reducida para obtener 6,0 g (73%) del compuesto del título en forma de un sólido blanco.

I.1.3 (2–Metil–pirimidin–4–il)–metilamina

Un autoclave se cargó con oxima de 2–metil–pirimidin–4–carbaldehído (13 g) de I.1.2, 150 ml de metanol y 70 ml de trietilamina. El autoclave se purgó con nitrógeno. A esta mezcla se añadieron 3 g de un catalizador de paladio sobre carbón al 10%. El autoclave se selló y se purgó dos veces con gas hidrógeno. La hidrogenación se corrió durante 2 h. Al hacerlo, la mezcla de reacción se calentó hasta 40 °C en el ínterin. El precipitado se filtró, se lavó con metanol para obtener el compuesto del título en forma de un sólido de color rojo claro (11 g, 94%).

I.2 Éster ter–butílico del ácido (2–cloro–pirimidin–4–ilmetil)carbámico

Se cargaron 2–cloropirimidin–4–carbonitrilo (24 g), 40,8 g de dicarbonato de t–butilo (Boc_2O) en 1,2 L de metanol y 5 g de níquel Raney (Raney 2400) en un autoclave. El autoclave se selló y se purgó con hidrógeno. La hidrogenación se corrió a 30 psi de gas hidrógeno. La reducción se llevó a cabo hasta completarla y el reactor se ventiló y se purgó con nitrógeno. La mezcla de reacción se filtró sobre tierra de diatomeas y se concentró el filtrado. El residuo se purificó por cromatografía para obtener el compuesto del título (35 g, 84%) en forma de un sólido blanco con un punto de ebullición de 86–88 °C.

II. Preparación de amidas de ácido sulfónico (I)

Ejemplo 1: (pirimidin–4–ilmetil)–amida del ácido 4'–clorobifenil–4–sulfónico

Se disolvieron diclorhidrato de pirimidin–4–il–metilamina (1,0 eq) y trietilamina (3,0 eq) en acetonitrilo (5 mL/mmol) y la solución se enfrió hasta 0 °C. Se añadió clorobifenilsulfocloruro (1,0 eq) en porciones y la mezcla de reacción se calentó hasta temperatura ambiente durante la noche. El solvente se evaporó a presión reducida y el residuo se lavó con agua fría y éter diisopropílico. El compuesto del título se obtuvo en forma de sólido beige.

Ejemplo 2: 4–Yodo–N–pirimidin–4–ilmetilbencensulfonamida

Se disolvieron diclorhidrato de pirimidin–4–il–metilamina (1,0 eq) y trietilamina (3,0 eq) en acetonitrilo (5 mL/mmol) y la solución se enfrió hasta 0 °C. Se añadió cloruro de ácido 4–yodobencensulfónico (1,0 eq) en porciones y la mezcla de reacción se calentó hasta temperatura ambiente. El solvente se evaporó a presión reducida y el residuo se lavó con agua fría y éter diisopropílico frío para obtener el compuesto del título en forma de sólido beige.

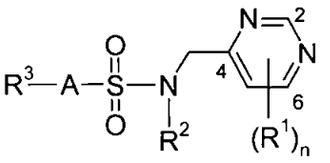
Ejemplo 3: (Pirimidin–4–ilmetil) amida del ácido 4'–fluorobifenil–4–sulfónico

La sulfonamida del Ejemplo 2 (1,0 eq), ácido 4–fluorofenilborónico y $Pd(PPh_3)_4$ se disolvieron en dioxano (3 mL/mmol) y se añadió una solución acuosa de carbonato de

sodio (2 mL/mmol). La mezcla de reacción se calentó a reflujo durante la noche y tras completar la reacción, el solvente se eliminó a presión reducida. El residuo se purificó por cromatografía para obtener el compuesto del título en forma de un sólido beige.

Los compuestos enumerados en la tabla I se pueden preparar de una manera análoga.

Tabla I



(I),

Ej. N.º	$(R^1)_n$	R^2	A–R^3	p. f. [°C] RT[min]
1	—	H	4–(4–Cl–fenil)–fenilo	177
2	—	H	4–iodofenil	133
3	—	H	4–(4–F–fenil)–fenilo	128
4	2–$NH(CH_3)$	H	4–(4–F–fenil)–fenilo	140
5	2–$NH(CH_3)$	H	4–(4–Cl–fenil)–fenilo	177
6	2–$N(CH_3)_2$	H	4–(4–Cl–fenil)–fenilo	122
7	2–$N(CH_3)_2$	H	4–(4–F–fenil)–fenilo	146
8	2–SCH_3	H	4–(4–Cl–fenil)–fenilo	148
9	2–SCH_3	H	4–(4–F–fenil)–fenilo	168
10	—	H	6–(3–cloro–4–metoxi–fenil)–piridin–3–ilo	154
11	2–$NH(CH_3)$	H	5–(4–Cl–fenil)–tiofen–3–ilo	141
12	2–$N(CH_3)_2$	H	5–(4–Cl–fenil)–tiofen–3–ilo	2.84
13	2–SCH_3	H	5–(4–Cl–fenil)–tiofen–3–ilo	3.53
14	2–$NH(CH_3)$	H	4–(4–CF_3–fenil)–tiofen–2–ilo	172
15	2–$NH(CH_3)$	H	4–(3–CN–fenil)–tiofen–2–ilo	201
16	2–$N(CH_3)_2$	H	4–(4–CF_3–fenil)–tiofen–2–ilo	2.94
17	2–$N(CH_3)_2$	H	4–(3–CN–fenil)–tiofen–2–ilo	2.49
18	2–SCH_3	H	4–(4–CF_3–fenil)–tiofen–2–ilo	3,61
19	2–SCH_3	H	4–(3–CN–fenil)–tiofen–2–ilo	3.09
20	2–SCH_3	H	6–(3–cloro–4–metoxi–fenil)–piridin–3–ilo	178
21	2–$NH(CH_3)$	H	6–(3–cloro–4–metoxi–fenil)–piridin–3–ilo	189
22	2–$NH(CH_3)$	H	6–(4–cloro–fenil)–piridin–3–ilo	197
23	2–$N(CH_3)_2$	H	6–(4–cloro–fenil)–piridin–3–ilo	152
24	2–SCH_3	H	6–(4–cloro–fenil)–piridin–3–ilo	145
25	2–SCH_3	H	5–(3–cloro–4–metoxi–fenil)–piridin–2–ilo	154
26	2–CH_3	H	4–(4–F–fenil)–fenilo	118
27	2–ciclopropilo	H	4–(4–F–fenil)–fenilo	110
28	2–CH_3	H	4–(4–Cl–fenil)–fenilo	153
29	2–ciclopropilo	H	4–(4–Cl–fenil)–fenilo	171
30	2–CH_3	H	5–(4–Cl–fenil)–tiofen–2–ilo	135
31	2–CH_3	H	5–(4–CF_3–fenil)–tiofen–2–ilo	121
32	2–ciclopropilo	H	5–(4–Cl–fenil)–tiofen–2–ilo	149
33	2–ciclopropilo	H	5–(4–CF_3–fenil)–tiofen–2–ilo	155
34	—	H	4–(fenil)–fenilo	3.13
35	—	H	4–(2–Cl–fenil)–fenilo	2.98
36	—	H	4–(3–Cl–fenil)–fenilo	3.11
37	—	H	4–(4–Cl–fenil)–fenilo	3.13
38	—	H	4–(2–F–fenil)–fenilo	2.85
39	—	H	4–(3–F–fenil)–fenilo	2.89

Ej. N.º	$(R^1)_n$	R^2	A–R^3	p. f: [°C] RT[min]
40	—	H	4–(4–F–fenil)–fenilo	2.88
41	—	H	4–(2–CH_3–fenil)–fenilo	2.99
42	—	H	4–(3–CH_3–fenil)–fenilo	3.06
43	—	H	4–(4–CH_3–fenil)–fenilo	3.07
44	—	H	4–(2–OCH_3–fenil)–fenilo	2.85
45	—	H	4–(3–OCH_3–fenil)–fenilo	2.84
46	—	H	4–(4–OCH_3–fenil)–fenilo	2.82
47	—	H	4–(2–CF_3–fenil)–fenilo	3.08
48	—	H	4–(3–CF_3–fenil)–fenilo	3.21
49	—	H	4–(4–CF_3–fenil)–fenilo	3.24
50	—	H	4–(3–CN–fenil)–fenilo	2.64
51	—	H	4–(4–CN–fenil)–fenilo	2.64
52	—	H	4–(2,4–difluoro–fenil)–fenilo	2.93
53	—	H	4–(3,4–difluoro–fenil)–fenilo	2.97
54	—	H	4–(2,4–dicloro–fenil)–fenilo	3.32
55	—	H	4–(3,4–dicloro–fenil)–fenilo	3.36
56	2–CH_3	H	4–fenoxi–fenilo	104
57	2–ciclopropil	H	4–fenoxi–fenilo	118
58	2–SCH_3	H	4–fenoxi–fenilo	3.37
59	2–CH_3	H	4–(4–Cl–fenoxi)–fenilo	112
60	2–ciclopropil	H	4–(4–Cl–fenoxi)–fenilo	144
61	2–SCH_3	H	4–(4–Cl–fenoxi)–fenilo	124
62	2–CH_3	H	4–(4–CF_3–fenil)–tiofen–2–ilo	121
63	2–CH_3	H	4–(3–CN–fenil)–tiofen–2–ilo	155
64	2–ciclopropilo	H	4–(4–CF_3–fenil)–tiofen–2–ilo	120
65	2–ciclopropilo	H	4–(3–CN–fenil)–tiofen–2–ilo	118
66	2–$N(CH_3)_2$	CH_3	4–(4–F–fenil)–fenilo	2.94
67	2–$N(CH_3)_2$	CH_3	4–(4–Cl–fenil)–fenilo	118
68	2–CH_3	H	benzo[b]furan–2–ilo	129
69	2–ciclopropilo	H	benzo[b]furan–2–ilo	161
70	2–CH_3	H	benzo[b]tiofen–3–ilo	206
71	2–ciclopropilo	H	benzo[b]tiofen–3–ilo	143
72	2–CH_3	H	5–cloro–3–metil–benzo[b]tiofen–2–ilo	162
73	2–ciclopropilo	H	5–cloro–3–metil–benzo[b]tiofen–2–ilo	121
74	—	H	4–(4–F–fenil)–5–metil–tiofen–2–ilo	3.13
75	2–CH_3	H	4–(4–F–fenil)–5–metil–tiofen–2–ilo	3.21
76	2–ciclopropilo	H	4–(4–F–fenil)–5–metil–tiofen–2–ilo	3.24
77	2–SCH_3	H	4–(4–F–fenil)–5–metil–tiofen–2–ilo	3.45
78	2–CH_3	H	3–(4–Cl–fenoxi)–fenilo	3.11
79	2–ciclopropilo	H	3–(4–Cl–fenoxi)–fenilo	3.40
80	2,6–dimetilo	H	3–(4–Cl–fenoxi)–fenilo	3.01
81	2–CH_3	H	3–fenoxi–fenilo	3.82
82	2,6–dimetilo	H	3–fenoxi–fenilo	2.73
83	2–ciclopropilo	H	3–fenoxi–fenilo	126
84	2–CH_3	H	4–(4–F–fenil)–5–CF_3–tiofen–2–ilo	83
85	2–ciclopropilo	H	4–(4–F–fenil)–5–CF_3–tiofen–2–ilo	110
86	2–SCH_3	H	4–(4–F–fenil)–5–CF_3–tiofen–2–ilo	92
87	2,6–dimetilo	H	4–(4–Cl–fenil)–fenilo	124
88	2–OCH_3	H	4–(4–Cl–fenil)–fenilo	134
89	6–OCH_3	H	4–(4–Cl–fenil)–fenilo	183
90	2,6–dimetilo	H	5–(4–CF_3–fenil)–tiofen–2–ilo	157
91	2–OCH_3	H	5–(4–CF_3–fenil)–tiofen–2–ilo	107
92	6–OCH_3	H	5–(4–CF_3–fenil)–tiofen–2–ilo	157
93	2–OCH_3	H	6–(3–cloro–4–metoxi–fenil)–piridin–3–ilo	182
94	2–OCH_3	H	4–(4–CF_3–fenil)–tiofen–2–ilo	117
95	2–OCH_3	H	4–(3–CN–fenil)–tiofen–2–ilo	147
96	6–OCH_3	H	4–(3–CN–fenil)–tiofen–2–ilo	146

Ej. N.º	$(R^1)_n$	R^2	A–R^3	p. f. [°C] RT[min]
97	6–OCH_3	H	6–(3–cloro–4–metoxi–fenil)–piridin–3–ilo	172
98	—	H	1–(4–fluoro–fenil)–1H–pirazol–4–ilo	157
99	2–CH_3	H	1–(4–fluoro–fenil)–1H–pirazol–4–ilo	142
100	2,6–dimetil	H	1–(4–fluoro–fenil)–1H–pirazol–4–ilo	180
101	2–ciclopropil	H	1–(4–fluoro–fenil)–1H–pirazol–4–ilo	101
102	2–SCH_3	H	1–(4–fluoro–fenil)–1H–pirazol–4–ilo	2.63
103	—	H	1–(4–F–fenil)–1H–pirrol–3–ilo	114
104	2–CH_3	H	1–(4–F–fenil)–1H–pirrol–3–ilo	109
105	2,6–dimetiloo	H	1–(4–F–fenil)–1H–pirrol–3–ilo	2.33
106	2–ciclopropilo	H	1–(4–F–fenil)–1H–pirrol–3–ilo	2.72
107	2–SCH_3	H	1–(4–F–fenil)–1H–pirrol–3–ilo	2.98
108	—	H	1–(4–F–fenil)–1H–imidazol–4–ilo	2.08
109	2–CH_3	H	1–(4–F–fenil)–1H–imidazol–4–ilo	2.07
110	2–ciclopropilo	H	1–(4–F–fenil)–1H–imidazol–4–ilo	148
111	2–SCH_3	H	1–(4–F–fenil)–1H–imidazol–4–ilo	2.59
112	2–ciclopropilo	H	2–(4–F–fenil)–tiazol–5–ilo	131
113	2–ciclopropilo	H	4–(4–F–fenil)–tiazol–2–ilo	167
114	2–SCH_3	H	4–(4–F–fenil)–tiazol–2–ilo	136
115	—	H	2–(4–F–fenil)–tiazol–5–ilo	153
116	2–CH_3	H	2–(4–F–fenil)–tiazol–5–ilo	171
117	—	H	4–(4–F–fenil)–tiazol–2–ilo	117
118	2–CH_3	H	4–(4–F–fenil)–tiazol–2–ilo	164
119	—	H	4–(3–CN–fenil)–tiofen–2–ilo	2.63
120	—	H	4–(4–Cl–fenil)–tiofen–2–ilo	3.05
121	—	H	4–(3,4–Cl_2–fenil)–tiofen–2–ilo	3.28
122	—	H	4–(2,4–Cl_2–fenil)–tiofen–2–ilo	2.91
123	—	H	4–(3,4–F_2–fenil)–tiofen–2–ilo	2.88
124	—	H	4–(2,4–F_2–fenil)–tiofen–2–ilo	2.59
125	—	H	4–(4–CN–fenil)–tiofen–2–ilo	2.47
126	—	H	6–fenil–piridin–3–ilo	2.63
127	—	H	6–(3–F–fenil)–piridin–3–ilo	2.59
128	—	H	6–(4–F–fenil)–piridin–3–ilo	2.39
129	—	H	6–(2–metoxi–fenil)–piridin–3–ilo	3.05
130	—	H	6–(3–CF_3–fenil)–piridin–3–ilo	3.02
131	—	H	6–(4–CF_3–fenil)–piridin–3–ilo	3.04
132	—	H	5–(4–metil–fenil)–tiofen–2–ilo	3.05
133	—	H	5–(4–Cl–fenil)–tiofen–2–ilo	3,12
134	—	H	5–(2–metoxi–fenil)–tiofen–2–ilo	2.83
135	—	H	4–(2–F–fenil)–tiofen–2–ilo	2.79
136	—	H	4–(3–CF_3–fenil)–tiofen–4–ilo	3.14
137	—	H	6–(2–Cl–fenil)–piridin–3–ilo	2.55
138	—	H	4–(2–Cl–fenil)–tiofen–2–ilo	2.91
139	—	H	6–(3–Cl–fenil)–piridin–3–ilo	2.87
140	—	H	6–(2–F–fenil)–piridin–3–ilo	2.51
141	—	H	6–(2–CH_3–fenil)–piridin–3–ilo	2.51
142	—	H	6–(3–CH_3–fenil)–piridin–3–ilo	2.72
143	—	H	6–(4–CH_3–fenil)–piridin–3–ilo	2.72
144	—	H	6–(3–OCH_3–fenil)–piridin–3–ilo	2.56
145	—	H	6–(4–OCH_3–fenil)–piridin–3–ilo	2.51
146	—	H	6–(3–CN–fenil)–piridin–3–ilo	2.45
147	—	H	6–(4–CN–fenil)–piridin–3–ilo	2.45
148	—	H	6–(2,4–difluoro–fenil)–piridin–3–ilo	2.63
149	—	H	6–(3,4–difluoro–fenil)–piridin–3–ilo	2.76
150	—	H	6–(2,4–dicloro–fenil)–piridin–3–ilo	2.94
151	—	H	6–(4–cloro–fenil)–piridin–3–ilo	2.97
152	—	H	5–(2–CH_3–fenil)–tiofen–2–ilo	2.96
153	—	H	5–(3–CH_3–fenil)–tiofen–2–ilo	3.09

Ej. N.º	$(R^1)_n$	R^2	A–R^3	p. f. [°C] RT[min]
154	—	H	5–(2–Cl–fenil)–tiofen–2–ilo	2.95
155	—	H	5–(3–Cl–fenil)–tiofen–2–ilo	3.09
156	—	H	5–(4–OCH_3–fenil)–tiofen–2–ilo	2.83
157	—	H	5–(3–OCH_3–fenil)–tiofen–2–ilo	2.86
158	—	H	5–(3,4–difluoro–fenil)–tiofen–2–ilo	2.97
159	—	H	5–(2–CF_3–fenil)–tiofen–2–ilo	3.06
160	—	H	5–(3–F–fenil)–tiofen–2–ilo	2.88
161	—	H	5–(4–F–fenil)–tiofen–2–ilo	2.86
162	—	H	5–(3–CN–fenil)–tiofen–2–ilo	2.66
163	—	H	5–(4–CN–fenil)–tiofen–2–ilo	2.65
164	—	H	5–(3–CF_3–fenil)–tiofen–2–ilo	3.19
165	—	H	5–(4–CF_3–fenil)–tiofen–2–ilo	3.24
166	—	H	5–(2,4–dicloro–fenil)–tiofen–2–ilo	3.39
167	—	H	5–(3,4–dicloro–fenil)–tiofen–2–ilo	3.36
168	—	H	4–fenil–tiofen–2–ilo	2.73
169	—	H	4–(3–Cl–fenil)–tiofen–2–ilo	3.03
170	—	H	4–(3–F–fenil)–tiofen–2–ilo	2.82
171	—	H	4–(4–F–fenil)–tiofen–2–ilo	2.80
172	—	H	4–(3–CH_3–fenil)–tiofen–2–ilo	2.97
173	—	H	4–(4–CH_3–fenil)–tiofen–2–ilo	2.98
174	—	H	4–(2–OCH_3–fenil)–tiofen–2–ilo	2.81
175	—	H	4–(3–OCH_3–fenil)–tiofen–2–ilo	2.78
176	—	H	4–(4–OCH_3–fenil)–tiofen–2–ilo	2.75
177	—	H	4–(4–CF_3–fenil)–tiofen–2–ilo	3.17
178	—	H	5–fenil–tiofen–2–ilo	2.80
179	—	H	5–(2,4–difluoro–fenil)–tiofen–2–ilo	2.92
180	—	H	4–(2–metil–fenil)–tiofen–2–ilo	2.91
181	—	H	4–(2–CF_3–fenil)–tiofen–2–ilo	3.01
182	—	H	6–(2–CF_3–fenil)–piridin–3–ilo	2.67
183	5,6–dimetilo	H	5–(4–Cl–fenil)–tiofen–2–ilo	100
184	6–CH_3	H	5–(4–Cl–fenil)–tiofen–2–ilo	139
185	2–SCH_3, 6–CH_3	H	4–(4–Cl–fenoxi)–fenilo	171
186	2–Cl	H	4–(4–Cl–fenil)–fenilo	155
187	2–OCH_3, 6–CH_3	H	4–(4–Cl–fenoxi)–fenilo	154
188	2,6–dimetilo	H	1–(4–F–fenil)–1H–imidazol–4–ilo	165
189	5,6–dimetilo	H	4–(4–Cl–fenoxi)–fenilo	121
190	2,6–dimetilo	H	5–(4–Cl–fenil)–tiofen–2–ilo	151
191	2–OCH_3, 6–CH_3	H	5–(4–Cl–fenil)–tiofen–2–ilo	163
192	2,5,6–trimetilo	H	5–(4–Cl–fenil)–tiofen–2–ilo	168
193	2–SCH_3, 6–CH_3	H	5–(4–Cl–fenil)–tiofen–2–ilo	146
194	6–$N(CH_3)_2$	H	4–(4–Cl–fenoxi)–fenilo	161
195	2,6—dimetilo	H	4–(4–F–fenil)–tiazol–2–ilo	164
196	6–CH_3	H	4–(4–Cl–fenil)–fenilo	143
197	2,5,6–trimetilo	H	4–(4–Cl–fenil)–fenilo	155
198	2–OCH_3	H	4–(2,4–difluorofenoxi)–fenilo	3.14
199	—	H	4–(4–Cl–fenoxi)–fenilo	121
200	2–CH_3	H	4–fenoxifenilo	104
201	2–ciclopropilo	H	4–fenoxifenilo	118
202	2–SCH_3	H	4–fenoxifenilo	3,14
203	2–CH_2	H	4–(4–Cl–fenoxi)–fenilo	112
204	2–ciclopropilo	H	4–(4–Cl–fenoxi)–fenilo	144
205	2–SCH_3	H	4–(4–Cl–fenoxi)–fenilo	124
206	6–CH_3	H	4–(4–Cl–fenoxi)–fenilo	126
207	2,6–$(CH_3)_2$	H	4–(4–Cl–fenoxi)–fenilo	107
208	5,6–$(CH_3)_2$	H	4–(4–Cl–fenoxi)–fenilo	121
209	2–OCH_3, 6–CH_3	H	4–(4–Cl–fenoxi)–fenilo	154
210	2–OCH_3	H	4–(2,4–F_2–fenoxi)–fenilo	3,09

Ej. N.º	$(R^1)_n$	R^2	A–R^3	p. f. [°C] RT[min]
211	2–$S(O)CH_3$	H	4–(4–Cl–fenoxi)–fenilo	70
212	2–$S(O)_2CH_3$	H	4–(4–Cl–fenoxi)–fenilo	3,16
213	2–SCH_3	H	4–(2,4–F_2–fenoxi)–fenilo	2,91*
214	6–$SCHF_2$	H	4–(2,4–F_2–fenoxi)–fenilo	3,29*
215	6–SCF_3	H	4–(2,4–F_2–fenoxi)–fenilo	3,40*
216	2–SCF_3	H	4–(2,4–F_2–fenoxi)–fenilo	3,65*
217	2–SCF_3	H	4–(4–Cl–fenoxi)–fenilo	3,53*
218	2–$SCHF_2$	H	4–(2,4–F_2–fenoxi)–fenilo	3,38*
219	2–$SCHF_2$	H	4–(4–Cl–fenoxi)–fenilo	3,52*
220	2–$OCHF_2$	H	4–(4–Cl–fenoxi)–fenilo	3,42*
221	2–$OCHF_2$	H	4–(2,4–F_2–fenoxi)–fenilo	3,26*
222	–	H	4–(4–Cl–fenoxi)–fenilo	121
223	–	H	4–(2,4–F_2–fenoxi)–fenilo	93
224	6–$N(CH_3)_2$	H	4–(4–Cl–fenoxi)–fenilo	161
225	6–$NHCH_3$	H	4–(4–Cl–fenoxi)–fenilo	173
226	2–SCH_3, 6–CH_3	H	4–(4–Cl–fenoxi)–fenilo	171
227	6–$SCHF_2$	H	4–(4–Cl–fenoxi)–fenilo	3,42*
228	6–SCF_3	H	4–(4–Cl–fenoxi)–fenilo	3,53*

— cuando se refiere a $(R^1)_n$ significa que n es cero;

p. f. punto de fusión

RT tiempo de retención, determinado por HPLC; columna de HPLC: columna RP–18 (Chromolith Speed ROD de Merck KgaA, Alemania, 50*4,6 mm). Elución: acetonitrilo + 0,1% de ácido trifluoroacético (TFA) / agua en una relación de 5:95 a 95:5 en 5 minutos a 40 °C, índice ce flujo 1,6 ml/min; los valores RT indicados con un asterisco se determinaron usando columna de HPLC Waters X–Bridge TM C18 502,1 mm. Elución: gradiente del 0,1% de ácido fórmico en acetonitrilo y 0,1% de ácido fórmico en agua en una relación de 2:98 a 98:2 en 4 minutos a 35 °C, índice de flujo 0,8 ml/min.

Ejemplos de la acción contra hongos dañinos

La acción fungicida de los compuestos de la fórmula I se demostró mediante los siguientes experimentos:

Pruebas de invernadero:

Los compuestos activos se formularon por separado o juntos como solución madre que comprende 25 mg de compuesto activo preparado en 10 ml con una mezcla de acetona y/o dimetilsulfóxido (DMSO) y el emulsificante Wettol (agente humectante con acción emulsificante y dispersante basada en alquilfenoles etoxilados) en una relación en volumen de solvente/emulsificante de 99 a 1. Esta solución luego se llevó a 100 ml con agua. Esta solución madre se diluyó con la mezcla de solvente/emulsificante/agua descrita en la concentración de compuesto activo dada a continuación.

Ejemplo de uso 1 – Actividad contra tizón temprano sobre tomates causado por *Alternaria solani*

Semillas germinadas jóvenes de plantas de tomate se cultivaron en macetas. Estas plantas se rociaron hasta chorrear con una suspensión acuosa que contenía la concentración de ingrediente activo establecida más adelante. Al día siguiente, las plantas tratadas se inocularon con una suspensión acuosa de esporas de *Alternaria solani* que

contenía 0,17 x 10^6 esporas por ml. Luego se transfirieron las plantas en estudio inmediatamente a una cámara húmeda. Después de 5 días a 20 y 22 ^{0}C y una humedad relativa cercana a 100 %, se evaluó la extensión de ataque fúngico sobre las hojas como % de superficie de hoja enferma.

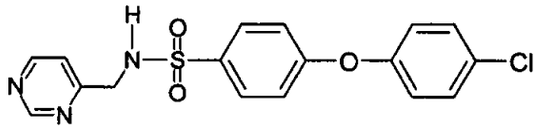
En esta prueba, las plantas tratadas con 250 ppm del compuesto activo del ejemplos 8, 11, 18, 25, 29, 30, 31, 32, 33, 34, 36, 40, 44, 45 ó 61, mostraron una infección inferior o igual al 15% mientras que las plantas no tratadas estaban infectadas en un 90%.

Ejemplo de uso 2 – Actividad contra tizón temprano de tomate causado por *Alternaria solani*

Hojas de plantas de tomate en macetas se rociaron hasta el punto de chorrear con una suspensión acuosa que contenía la concentración de compuesto activo establecida a continuación. Al día siguiente, las plantas tratadas se inocularon con una suspensión acuosa de esporas de *Alternaria solani* que contenía 0,17 x 10^6 esporas por ml en una solución acuosa al 2% de biomaltosa. Luego se transfirieron las plantas en estudio inmediatamente a una cámara húmeda a temperaturas de 20 a 22 °C. Después de 5 días, la enfermedad sobre las plantas control infectadas no tratadas se habían desarrollado hasta el grado en que la infección de todas las plantas se podían determinar visualmente en %.

En esta prueba, las plantas que han sido tratadas con 250 ppm del compuesto activo de los ejemplos 200, 201, 202, 203, 204, 205, 209, 210, 213, 220 o 222 mostraron una infección inferior o igual al 15% mientras que las plantas no tratadas tenían una infección del 90%.

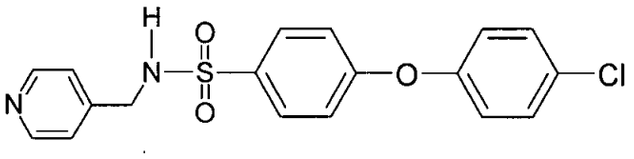
En esta prueba, las plantas tratadas con 250 ppm del compuesto activo del ejemplo 199



Ejemplo 199

mostraron una infección inferior o igual al 5%, mientras que las plantas no tratadas tenían una infección del 90%.

En contraste, las plantas tratadas con 250 ppm del compuesto de fórmula (RC 1), preparado por analogía con el documento WO 2006/097488, mostraron una infección del 40%.



(RC 1)

Ejemplo de uso 3 – Actividad contra moho gris en hojas de pimiento causado por *Botrytis cinerea* con aplicación protectora durante 1 día

Hojas de pimiento del cultivo "Neusiedler Ideal Elite" se rociaron, después del desarrollo completo de 2 a 3 hojas, hasta el punto de chorrear con una suspensión acuosa con la concentración de compuesto activo establecida a continuación. Al día

siguiente, las plantas tratadas se inocularon con una suspensión acuosa de esporos de *Botrytis cinerea* en una solución acuosa al 2% de biomaltosa con una densidad de 1,7 x 10^6 esporas/ml. Las plantas luego se colocaron en una cámara climatizada a temperaturas entre 22 y 24 °C, oscuridad y con elevada humedad atmosférica. Después de 5 días, se determinó visualmente la extensión de la infección fúngica para la superficie de hoja infectada.

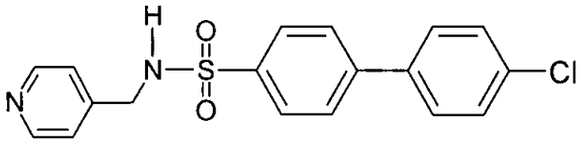
En esta prueba, las plantas tratadas con 250 ppm del compuesto activo de los ejemplos 25, 35, 94 ó 102 mostraron una infección inferior o igual al 20%, mientras que las plantas no tratadas tenían un 100% de infección.

Ejemplo de uso 4: Actividad contra tizón tardío en tomates causado por *Phytophthora infestans*, tratamiento protector

Semillas germinadas jóvenes de plantas de tomate se cultivaron en macetas. Las plantas se rociaron hasta chorrear con una suspensión acuosa con la concentración de compuesto activo establecida a continuación. Al día siguiente, las plantas tratadas se inocularon con una suspensión acuosa de esporangios de *Phytophthora infestans*. Tras la inoculación, las plantas de estudio se transfirieron inmediatamente a una cámara húmeda. Después de seis días a 18 a 20 ^{0}C y humedad relativa cercana al 100%, se evaluó la extensión del ataque fúngico sobre las hojas como % de área de la hoja infectada.

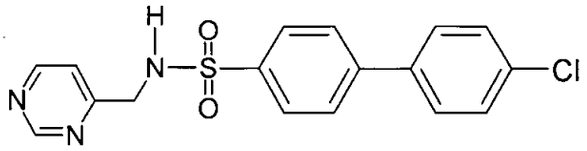
En esta prueba, las plantas tratadas con 250 ppm del compuesto activo de los ejemplos 1, 4, 7, 10, 11, 12, 19, 27, 28, 29, 30, 40, 45, 49, 50, 51, 53, 76, 87, 88, 98, 101, 102, 103, 107, 110, 115, 143, 145, 151, 161, 197, 198, 206, 207, 208, 211, 212, 221, 222 o 223 mostraron una infección inferior o igual al 20%, mientras que las plantas no tratadas tenían un 90% de infección.

En esta prueba, las plantas tratadas con 250 ppm del compuesto de fórmula (RC 2), preparado por analogía con el documento WO 2006/097488 mostró una infección del 90%.



(RC 2)

En contraste, el compuesto del ejemplo 1 mostró una infección del 0%.



Ejemplo de uso 5 –Actividad curativa actividad contra roya marrón de trigo causada por *Puccinia recondita*

Hojas de semillas germinadas de trigo del cultivar "Kanzler" sembradas en macetas se inocularon con una suspensión de esporas de roya marrón (*Puccinia recondita*). Las macetas se colocaron luego en una cámara con alta humedad atmosférica (90 a 95%) y 20 a 22 °C durante 24 horas. Durante este tiempo, las esporas germinaron y los tubos germinativos penetraron en el tejido de las hojas. Al día siguiente, las plantas infectadas se

rociaron hasta el punto de chorrear con una solución acuosa que tenía una concentración de compuesto activo establecida a continuación. La solución se preparó tal como se describió con anterioridad. Después de haber secado la cubierta rociada, las plantas de prueba se cultivaron en un invernadero a temperaturas entre 20 y 22 °C y a 65 a 70% de humedad relativa atmosférica durante 7 días. Luego se determinó la extensión del desarrollo del hongo de la roya sobre las hojas.

En esta prueba, las plantas tratadas con 250 ppm del compuesto activo de los ejemplos 19, 27, 31, 33, 47, 49, 52, 61, 81, 85, 87, 88, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 211, 212, 213, 216, 217, 219, 220 o 221 mostraron una infección inferior o igual a 15%, mientras que las plantas no tratadas estaban infectadas en el 90%.

Ejemplo de uso 6 – Acción protectora contra *Puccinia recondita* en trigo (roya marrón de trigo)

Hojas de semillas germinadas de trigo del cultivar "Kanzler" sembradas en macetas se rociaron hasta el punto de chorrear con una solución acuosa que tenía una concentración de compuesto activo establecida a continuación. Al día siguiente, las plantas tratadas se espolvorearon con esporas de roya marrón de trigo (*Puccinia recondita)*. Las plantas luego se colocaron en una cámara con humedad atmosférica elevada (90 a 95%), a 20–22 °C, durante 24 horas. Durante este tiempo, las esporas germinaron y los tubos germinativos penetraron en el tejido de las hojas. Al día siguiente, las plantas de prueba se devolvieron al invernadero y se cultivaron a temperaturas entre 20 y 22 °C y a 65 a 70% de humedad relativa atmosférica durante otros 7 días. Luego se determinó la extensión del desarrollo del hongo de la roya sobre las hojas.

En esta prueba, las plantas tratadas con 250 ppm del compuesto activo de los ejemplos 8, 18, 52, 53, 74, 76, 77, 79, 80, 81, 85, 94, 107, 131, 151, 159, 165 ó 198 mostraron una infección inferior o igual a 20%, mientras que las plantas no tratadas estaban infectadas en el 90%.

Ejemplo de uso 7 –Actividad contra roya de poroto de soja causado por *Phakospora pachyrhizi*

Hojas de semillas germinadas de poroto de soja del cultivar "Oxford" sembradas en macetas se inocularon con una suspensión de esporas de roya de poroto de soja (*Phakospora pachyrhizi*). Las macetas luego se colocaron en una cámara con humedad atmosférica elevada (90 a 95%) y 23 a 27 °C durante 24 horas. Durante este tiempo, las esporas germinaron y los tubos germinativos penetraron en el tejido de las hojas. Al día siguiente, las plantas infectadas se rociaron hasta el punto de chorrear con una solución acuosa que tenía una concentración de compuesto activo establecida a continuación. La solución se había preparado tal como se describió con anterioridad. Después de haber secado la cubierta rociada, las plantas de prueba se cultivaron en un invernadero a temperaturas entre 23 y 27 °C y a 60 a 80% de humedad relativa atmosférica durante 14 días. Luego se determinó la extensión del desarrollo del hongo de la roya sobre las hojas.

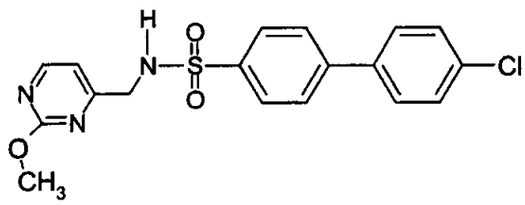
En esta prueba, las plantas tratadas con 250 ppm del compuesto activo de los ejemplos 1, 20, 24, 100, 214, 215 o 218 mostraron una infección inferior o igual a 20%,

mientras que las plantas no tratadas estaban infectadas en el 90%.

Ejemplo de uso 8 – Acción protectora contra roya de hojas de pepino causado por *Sphaerotheca fuliginea*

Hojas de semillas germinadas de pepino en el estadio de cotiledón se rociaron hasta el punto de chorrear con una solución acuosa que tenía una concentración de compuesto activo establecida a continuación. Al día siguiente, las plantas tratadas se inocularon con una suspensión acuosa de esporangios de *Sphaerotheca fuliginea*. Tras la inoculación, las plantas de prueba se transfirieron a un invernadero. Después de siete días a 20 a 24 ^{0}C y una humedad relativa cercana a 60 a 80 %, se evaluó visualmente la extensión del ataque fúngico sobre las hojas como % de área de hoja infectada.

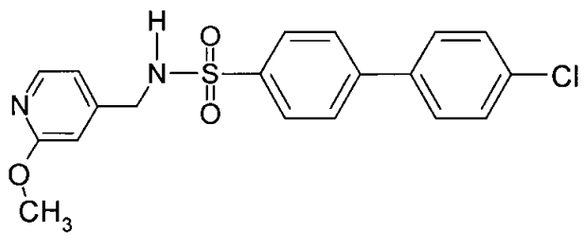
En esta prueba, el compuesto del ejemplo 88



Ejemplo 88

no mostró infección mientras que las plantas no tratadas estaban infectadas en el 90%.

En contraste, plantas tratadas con 250 ppm del compuesto activo de fórmula (RC 3), preparado por analogía al documento WO 2006/097488 mostró una infección del 90%.



(RC 3)

Pruebas de microtitulación

Los compuestos activos se formularon por separado como solución madre en dimetilsulfóxido (DMSO) en una concentración de 10 000 ppm.

Ejemplo de uso 9 –Actividad contra la roya patógena tardía *Phytophthora infestans* en la prueba de microtitulación

La solución madre se pipeteó en una placa de microtitulación (MTP) y se diluyó hasta la concentración establecida de compuesto activo mediante un medio nutritivo acuoso basado en jugo de arveja para hongos. Luego se añadió una suspensión acuosa de zoosporas de *Phytophthora infestans*. Las placas se colocaron en una cámara saturada con vapor de agua a temperaturas de 18 °C. Mediante un fotómetro de absorción, se midieron los MTP a 405 nm el día 7 después de la inoculación. Los parámetros medidos se compararon con el crecimiento del variante control sin compuesto activo (= 100%) y el valor de blanco sin hongo y sin compuesto activo a fin de determinar el crecimiento relativo en % de los patógenos en cada compuesto activo.

En esta prueba, la muestra tratada con 125 ppm del compuesto activo de los

ejemplos 3, 5, 9, 22, 26, 34, 37, 38, 42, 43, 50, 56, 59, 60, 62, 64, 66, 68, 73, 75, 84, 84, 99, 103, 104, 108, 109, 154, 157, 161, 168, 170, 171, 171, 175, 183, 184, 185, 186, 187, 188, 189, 189, 190, 191, 192, 193, 194, 195, 196, 224, 225, 226 o 227 respectivamente mostró como máximo 25% de crecimiento del patógeno.

Ejemplo de uso 10 –Actividad contra el patógeno de tizón de arroz causado por *Pyricularia oryzae* en la prueba de microtitulación

La solución madre se pipeteó en una placa de microtitulación (MTP) y se diluyó hasta la concentración de compuesto activo establecida más adelante en un medio nutritivo acuoso basado en malta para hongos. Luego se agregó una suspensión acuosa de esporos de *Pyricularia oryzae*. Las placas se colocaron en una cámara saturada con vapor de agua a temperaturas de 18 °C. Mediante un fotómetro de absorción, se midieron los MTP a 405 nm el día 7 después de la inoculación. Los parámetros medidos se compararon con el crecimiento del variante control sin compuesto activo (= 100%) y el valor de blanco sin hongo y sin compuesto activo a fin de determinar el crecimiento relativo en % de los patógenos en cada compuesto activo.

En esta prueba, la muestra tratada con 125 ppm del compuesto activo de los ejemplos 3, 4, 5, 6, 7, 9, 12, 13, 16, 26, 32, 39, 41, 42, 44, 48, 54, 56, 57, 58, 59, 60, 62, 64, 66, 67, 73, 75, 78, 79, 80, 84, 86, 89, 99, 109, 120, 122, 138, 158, 159, 166, 167, 169, 171, 172, 175, 177, 180, 181, 183, 186, 187, 190, 192, 195 0 224, respectivamente mostró como máximo 25% de crecimiento del patógeno

Ejemplo de uso 11 –Actividad contra el patógeno de tizón *Septoria* causado por *Septoria tritici* en la prueba de microtitulación

La solución madre se pipeteó en una placa de microtitulación (MTP) y se diluyó hasta la concentración de compuesto activo establecida más adelante en un medio nutritivo acuoso basado en malta para hongos. Luego se agregó una suspensión acuosa de esporos de *Septoria tritici*. Las placas se colocaron en una cámara saturada con vapor de agua a temperaturas de 18 °C. Mediante un fotómetro de absorción, se midieron los MTP a 405 nm el día 7 después de la inoculación. Los parámetros medidos se compararon con el crecimiento del variante control sin compuesto activo (= 100%) y el valor de blanco sin hongo y sin compuesto activo a fin de determinar el crecimiento relativo en % de los patógenos en cada compuesto activo.

En esta prueba, la muestra tratada con 125 ppm del compuesto activo de los ejemplos 13, 38, 39, 41, 43, 54, 55, 57, 58, 67, 78, 104, 120, 157, 158, 166, 167, 177 o 228, respectivamente mostró como máximo 25% de crecimiento del patógeno.

La acción de los compuestos de la fórmula (I) contra plagas dañinas se demostró mediante los siguientes experimentos:

Ejemplo de uso 12 Actividad contra lepisma (*Anthonomus grandis*)

Los compuestos activos se formularon en 1:3 de dimetilsulfóxido / agua. 10 a 15 huevos se colocaron en placas de microtitulación llenos con 2% de agar–agar en agua y 300 ppm de formalina. Los huevos se rociaron con 20 µl de la solución de prueba, las placas se sellaron con folio perforado y se mantuvieron a 24–26 °C y 75–85% de humedad

con un ciclo de día/noche durante 3 a 5 días. Se evaluó la mortalidad sobre la base de los huevos que permanecieron sin desarrollar o las larvas sobre la superficie del agar y/o la cantidad y profundidad de los canales perforados causados por las larvas desarrolladas. Las pruebas se duplicaron dos veces.

En esta prueba, los huevos tratados con 2500 ppm del compuesto activo de los ejemplos 4, 9 y 54, respectivamente, mostraron una mortalidad de al menos 75%.

Ejemplo de uso 13 Actividad contra mosca de la fruta mediterránea (*Ceratitis capitata*)

Los compuestos activos se formularon en 1:3 de dimetilsulfóxido / agua. 50 a 80 huevos se colocaron en placas de microtitulación llenos con 0,5% de agar–agar y 14 % dieta en agua. Los huevos se rociaron con 5 µl de la solución de prueba, las placas se sellaron con folio perforado y se mantuvieron a 27–29 ^{0}C y 75–85% de humedad con luz fluorescente durante 6 días. Se evaluó la mortalidad sobre la base de la agilidad de las larvas desarrolladas. Las pruebas se duplicaron 2 veces.

Ejemplo de uso 14 Actividad contra gusano de tabaco (*Heliothis virescens*)

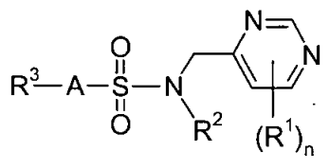
Los compuestos activos se formularon en 1:3 de dimetilsulfóxido / agua. 15 a 25 huevos se colocaron en placas de microtitulación llenos con dieta. Los huevos se rociaron con 10 µl de la solución de prueba, las placas se sellaron con folio perforado y se mantuvieron a 27–29 ^{0}C y 75–85% de humedad con luz fluorescente durante 6 días. Se evaluó la mortalidad sobre la base de la agilidad y la alimentación comparada de las larvas desarrolladas. Las pruebas se duplicaron 2 veces. En esta prueba, los huevos tratados con 2500 ppm de los compuestos activos del ejemplo 54 mostraron una mortalidad de al menos 75%.

Ejemplo de uso 15 Actividad contra áfido Vetch (*Megoura viciae*)

Los compuestos activos se formularon en 1:3 de dimetilsulfóxido / agua. Se colocaron discos de hojas de poroto en placas de microtitulación llenos con 0,8% agar–agar y 2,5 ppm OPUS®. Los discos de hojas se rociaron con 2,5 µl de la solución de prueba y 5 a 8 áfidos adultos se colocaron en las placas de microtitulación, que luego se cerraron y mantuvieron a 22–24 ^{0}C y 35–45% con luz fluorescente durante 6 días. Se evaluó la mortalidad sobre la base de áfidos vitales reproducidos. Las pruebas se duplicaron 2 veces.

REIVINDICACIONES

1. Compuestos de pirimidilmetil–sulfonamida **caracterizados** porque tienen la fórmula (I)



(I),

donde:

n es cero, uno, dos o tres;

R^1 es halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo, haloalquil C_1–C_4–sulfinilo, alquil C_1–C_4–sulfonilo, haloalquil C_1–C_4–sulfonilo, amino, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8 o alquil C_1–C_4–cicloalquilo C_3–C_8;

y/o

un radical R^1 que está unido a un átomo de carbono adyacente a un átomo de nitrógeno del anillo pirimidina puede formar junto con dicho átomo de carbono y átomo de nitrógeno un heterociclo aromático de cinco miembros fusionado, que puede contener uno, dos o tres átomos de nitrógeno más como miembros del anillo; o

dos radicales R^1 que están unidos a átomos de carbono adyacentes del anillo pirimidina pueden formar junto con dichos átomos de carbono un anillo benceno fusionado, un carbociclo saturado fusionado o parcialmente insaturado de 5, 6 ó 7 miembros o un heterociclo fusionado de 5, 6 ó 7 miembros que contiene uno, dos o tres heteroátomos seleccionados del grupo que consiste en 2 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre como miembros del anillo, siendo posible para el anillo fusionado llevar uno o dos radicales seleccionados del grupo que consiste en halógeno, alquilo C_1–C_4, halometilo, alcoxi C_1–C_4 o halometoxi;

R^2 es hidrógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8 o bencilo, en donde el resto de fenilo de bencilo no está sustituido o lleva 1, 2, 3, 4 ó 5 sustituyentes seleccionados del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo.

A es fenileno, heteroarendiilo de 5 ó 6 miembros, donde el heteroarendiílo contiene uno, dos, tres o cuatro heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como

miembros del anillo, y donde fenileno y heteroarendiílo, por su parte, no están sustituidos o llevan 1, 2, 3 ó 4 sustituyentes R^A, cada uno seleccionado del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, haloalquinilo C_2–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo, o

A es alcandiílo C_1–C_8, haloalcandiílo C_1–C_8, alquendiílo C_2–C_8, haloalquendiílo C_2–C_8, alquindiílo C_2–C_8, o haloalquindiílo C_2–C_8, en donde los últimos seis radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^{AA}, cada uno seleccionado del grupo que consiste en ciano, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo;

R^3 es hidrógeno, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, (alquil C_1–C_4)carbonilo, (alcoxi C_1–C_4)iminometilo, acriloílo (vinilcarbonilo), cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8, o cicloalquenilo C_5–C_8,

fenilo, bencilo, fenoxi, feniltio, un radical heteroarilo de 5 ó 6 miembros, en donde el anillo heteroarilo tiene 1, 2, 3 ó 4 heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, siendo posible para el anillo heteroarilo y el anillo fenilo, bencilo, fenoxi y feniltio no estar sustituidos o estar sustituidos con uno, dos o tres sustituyentes R^B, cada uno seleccionado del grupo que consiste en ciano, nitro, amino, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo, di(alquil C_1–C_4)aminocarbonilo, alquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo y alquil C_1–C_4–sulfonilo; o

un radical heteroariloxi de 5 ó 6 miembros o un radical heteroariltio de 5 ó 6 miembros, en donde el anillo heteroarilo en los últimos dos radicales mencionados tiene 1, 2, 3 ó 4 heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, siendo posible para dicho anillo heteroaromático llevar uno, dos o tres sustituyentes R^B;

o cuando A es fenileno o heteroarendiílo de 5 ó 6 miembros, el radical R^3 junto con un radical R^A puede formar junto con los átomos de carbono a los que está unido un anillo benceno fusionado, en donde el anillo benceno fusionado puede no estar sustituido o puede llevar 1, 2 ó 3 sustituyentes seleccionados, de modo independiente entre sí, del grupo que consiste en halógeno, ciano, nitro, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo, o

cuando A es fenileno o heteroarendiílo de 5 ó 6 miembros, el radical R^3 también puede ser alquilo C_1–C_4, alquenilo C_2–C_4 o alquinilo C_2–C_4;

y los N–óxidos, las sales agrícolamente aceptables y las sales aceptables en veterinaria de los compuestos de la fórmula (I).

2. Compuestos de la fórmula (I) de acuerdo con la reivindicación 1, **caracterizados**

porque A es fenileno o heteroarendiílo, que pueden no estar sustituidos o que pueden llevar uno, dos o tres sustituyentes R^A.

3. Compuestos de la fórmula (I) de acuerdo con la reivindicación 2, **caracterizados** porque A es 1,3– o 1,4–fenileno, que pueden llevar uno, dos o tres sustituyentes R^A.

4. Compuestos de la fórmula (I) de acuerdo con la reivindicación 2, **caracterizados** porque A es heteroarendiílo, seleccionado del grupo que consiste en tiofen–2,5–diílo, tiofen–2,4–diílo, tiofen–3,5–diílo, tiazol–2,5–diílo, tiazol–2,4–diílo, oxazol–2,5–diílo, oxazol–2,4–diílo, pirazol–3,5–diílo, pirazol–1,3–diílo, pirazol–1,4–diílo, piridin–2,5–diílo, piridin–2,6–diílo, piridin–2,4–diílo, piridin–3,5–diílo, en donde heteroarendiílo no está sustituido o lleva uno, dos o tres sustituyentes R^A.

5. Compuestos de la fórmula (I) de acuerdo con la reivindicación 1, **caracterizados** porque R^3 es fenilo o fenoxi, donde los últimos dos radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^B.

6. Compuestos de la fórmula (I) de acuerdo con la reivindicación 1, **caracterizados** porque A es alquendiílo C_2–C_4, haloalquendiílo C_2–C_4, alquindiílo C_2–C_4 o haloalquindiílo C_2–C_4, y donde los últimos cuatro radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^{AA}.

7. Compuestos de la fórmula (I) de acuerdo con cualquiera de las reivindicaciones precedentes, **caracterizados** porque R^2 es hidrógeno, alquilo C_1–C_4, fluoroalquilo C_1–C_2, alcoxi C_1–C_2, di(alquil C_1–C_2)amino, alilo o propargilo.

8. Compuestos de la fórmula (I) de acuerdo con la reivindicación 1, **caracterizados** porque R^2 es hidrógeno.

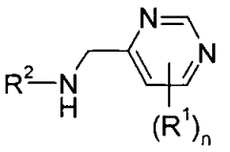
9. Compuestos de la fórmula (I) de acuerdo con cualquiera de las reivindicaciones precedentes, **caracterizados** porque n es cero.

10. Compuestos de la fórmula (I) de acuerdo con las reivindicaciones 1 a 8, **caracterizados** porque n es 1, 2 ó 3.

11. Compuestos de la fórmula (I) de acuerdo con la reivindicación 10, **caracterizados** porque R^1 está seleccionado de alquilo C_1-C_4, ciclopropilo, alcoxi C_1-C_4, haloalcoxi C_1-C_4, alquil C_1-C_4-tio, haloalquil C_1-C_4-tio, alquilsulfinilo C_1-C_4, haloalquilsulfinilo C_1-C_4, alquilsulfonilo C_1-C_4, haloalquilsulfonilo C_1-C_4, (C_1-C_4-alquil)amino, di(alquil C_1-C_4)amino, y halógeno.

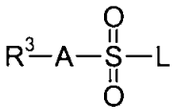
12. Compuestos de la fórmula (I) de acuerdo con la reivindicación 11, **caracterizados** porque R^1 está seleccionado de metilo, metiltio, metoxi, difluorometiltio, trifluorometiltio, difluorometoxi, trifluorometoxi, metilamino, metilsulfonilo, dimetilamino, flúor, bromo y cloro.

13. Un proceso para preparar compuestos de pirimidilmetil–sulfonamida de la fórmula (I) de acuerdo con la reivindicación 1, **caracterizado** porque comprende hacer reaccionar un compuesto de aminometilpirimidina de la fórmula (II)



(II)

en la que n, R^1 y R^2 son como se definieron en la reivindicación 1,
en condiciones básicas con un derivado de ácido sulfónico de la fórmula (III)



(III),

en la que A y R^3 son como se definieron en la reivindicación 1 y L es hidroxi o halógeno.

14. Una composición agrícola **caracterizada** porque comprende un portador sólido o líquido y al menos un compuesto de la fórmula (I) o un N–óxido o una de sus sales agrícolamente efectivas, de acuerdo con la reivindicación 1.

15. Un método para el tratamiento de hongos fitopatógenos dañinos, **caracterizado** porque comprende tratar los hongos o los materiales, plantas, el suelo o semillas que se desea proteger contra ataques fúngicos, con una cantidad efectiva de al menos un compuesto de la fórmula (I) o un N–óxido o una de sus sales agrícolamente efectivas, de acuerdo con la reivindicación 1.

16. El uso de compuestos de la fórmula (I), sus N–óxidos y sus sales agrícolamente aceptables, de acuerdo con la reivindicación 1, y de composiciones que comprenden compuestos de fórmula I, **caracterizado** porque es para combatir hongos fitopatógenos dañinos.

17. El uso de compuestos de la fórmula (I), sus N–óxidos, sus sales agrícolamente aceptables y sus sales veterinariamente aceptables, de acuerdo con la reivindicación 1, y de composiciones que comprenden al menos un compuesto de fórmula (I), **caracterizado** porque es para combatir plagas de artrópodos.

18. El uso de compuestos de la fórmula (I) y los N–óxidos y las sales agrícolamente aceptables, de acuerdo con la reivindicación 1, y de composiciones que comprenden al menos un compuesto de fórmula (I), **caracterizado** porque es para proteger la semilla, las raíces y los brotes de las semillas germinadas contra la infestación por hongos fitopatógenos dañinos y/o plagas de artrópodos.

19. Un método para combatir plagas de artrópodos, **caracterizado** porque comprende poner en contacto dichas plagas, su hábitat, base de alimentación, provisión de alimentos, planta, semilla, suelo, área, material o ambiente en el cual las plagas de artrópodos crecen o pueden crecer, o los materiales, plantas, semillas, suelos, superficies o espacios que se desean proteger contra el ataque o la infestación por dichas plagas, con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), un N–óxido, una de sus sales agrícolamente aceptable o una de sus sales veterinariamente aceptable, de acuerdo con la reivindicación 1, o con una composición que comprenden al menos un compuesto de la fórmula (I), un N–óxido, una de sus sales agrícolamente aceptables o una de sus sales veterinariamente aceptables.

20. El método de acuerdo con la reivindicación 19, **caracterizado** porque las plagas

son insectos.

21. El método de acuerdo con la reivindicación 19, **caracterizado** porque las plagas son arácnidos.

22. Un método para proteger cultivos contra el ataque o la infestación por plagas de artrópodos, **caracterizado** porque comprende poner en contacto un cultivo con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I) o un N–óxido o una de sus sales agrícolamente efectivas, de acuerdo con la reivindicación 1.

23. Un método para proteger la semilla contra la infestación por plagas de artrópodos y las raíces y los brotes de las semillas germinadas contra la infestación por plagas de artrópodos, **caracterizado** porque comprende poner en contacto la semilla o las raíces y los brotes de las semillas germinadas con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas, de acuerdo con la reivindicación 1.

24. Un método para proteger materiales inanimados contra el ataque o la infestación por plagas de artrópodos, **caracterizado** porque comprende poner en contacto el material inanimado con una cantidad efectiva como plaguicida de al menos un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas, de acuerdo con la reivindicación 1.

25. Semillas **caracterizadas** porque comprenden un compuesto de la fórmula (I), o un N–óxido o una de sus sales agrícolamente efectivas, tal como se definió en la reivindicación 1, en una cantidad de 0,1 g a 10 kg por 100 kg de semillas.

RESUMEN

Compuestos de pirimidilmetil-sulfonamida y sus N–óxidos, sus sales agrícolamente aceptables y sus sales veterinariamente aceptables y también composiciones agrícolas que comprenden al menos uno de dichos compuestos como componente activo, y también su uso para controlar hongos dañinos. Asimismo, un método para controlar plagas de artrópodos.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2007/062630

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D239/20 C07D239/22 C07D401/12 C07D403/12 C07D405/12
C07D409/12 C07D413/12 C07D417/12 A01N43/54

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 practical, search terms used)
EPO-Internal, WPI Data, EMBASE, BIOSIS, BEILSTEIN Data, CHEM ABS Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2006/097488 A1 (BASF AG [DE]; PUHL MICHAEL [DE]; KORADIN CHRISTOPHER [DE]; RHEINHEIMER) 21 September 2006 (2006-09-21) cited in the application Claims 1-30; Formula (I); examples	1-25
Y	JP 05 294945 A (UBE INDUSTRIES) 9 November 1993 (1993-11-09) Formula (I); Tables 1-11	1-25

☐ Further documents are listed in the continuation of Box C.

☒ 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

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"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
15 February 2008	28/02/2008

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, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Kirsch, Cécile

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2007/062630

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006097488 A1	21-09-2006	AR 053556 A1	09-05-2007
		AU 2006224567 A1	21-09-2006
		CA 2599551 A1	21-09-2006
		UY 29424 A1	31-10-2006
JP 5294945 A	09-11-1993	JP 2649119 B2	03-09-1997

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000058597/JAB	**FOR FURTHER ACTION**	See Form PCT/IPEA/416
International application No. PCT/EP2007/062630	International filing date *(day/month/year)* 21.11.2007	Priority date *(day/month/year)* 22.11.2006
International Patent Classification (IPC) or national classification and IPC INV. C07D239/20		
Applicant BASF SE		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
   a. ☐ *sent to the applicant and to the International Bureau)* a total of sheets, as follows:
      ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
      ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
   b. ☐ *(sent to the International Bureau only)* a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☒	Box No. VIII	Certain observations on the international application

Date of submission of the demand	Date of completion of this report
2008-09-19	26.02.2009
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Kirsch, Cécile Telephone No. +49 89 2399-2191

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2007/062630

Box No. I Basis of the report

1. With regard to the **language**, this report is based on

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of:

   ☐ international search (under Rules 12.3(a) and 23.1(b))
   ☐ publication of the international application (under Rule 12.4(a))
   ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

   Description, Pages

   1-163 as originally filed

   Claims, Numbers

   1-25 as originally filed

   ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:

   ☐ the description, pages
   ☐ the claims, Nos.
   ☐ the drawings, sheets/figs
   ☐ the sequence listing *(specify)*:
   ☐ any table(s) related to sequence listing *(specify)*:

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

   ☐ the description, pages
   ☐ the claims, Nos.
   ☐ the drawings, sheets/figs
   ☐ the sequence listing *(specify)*:
   ☐ any table(s) related to sequence listing *(specify)*:

5. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 70.2 (e)).

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2007/062630

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-25
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-25
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-25
	No:	Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.
PCT/EP2007/062630

Reference is made to the following documents :

D1: WO 2006/097488
D2: JP 05 294945 & Patent Abstracts of Japan

The present application deals with pyrimidylmethyl-sulfonamide compounds useful as fungicides and against arthropods.

Re Item V
Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Novelty, Article 33(2) PCT

Document D1 describes pyridylmethyl-sulfonamide compounds useful for combatting arthropodal pests. The compounds of the current application are pyrimidine derivatives and therefore novel vis-à-vis the pyridine compounds of D1.

Document D2 discloses pyrimidylaminoalkyl-sulfonamide derivatives useful as pest-controlling agents. According to D2, the pyrimidine ring is linked to the alkylsulfonamide moiety via an amino group. The compounds of D2 differ therefore from the present claimed subject-matter.

2. Inventive step, Article 33(3) PCT

2.1. Document D1, which is considered to represent the most relevant state of the art, relates to pyridylmethyl-sulfonamide compounds useful against arthropods. The subject-matter of D1 differs from current application due to the presence of a pyridine ring instead of the pyrimidine moiety of the application.

2.2. The problem to be solved by the present application may therefore be considered as the provision of heterocyclylmethyl-sulfonamide compounds for combatting harmful arthropods and/or fungi.

In the light of the tests provided on pages 155-163, the problem seems to have been solved.

2.3. The solution proposed in the present application consists in the exchange of a carbon atom for a nitrogen atom within the ring structure disclosed in D1. In the field of agrochemicals, nitrogen and carbon atoms are well-known bioisosters. Moreover, according to the present application, these atoms are also considered to be bioisosters within ring structures (see for instance definitions of R1, A and R3). Thus, the present application also considers the equivalence of nitrogen and carbon atoms to fall within the knowledge of the skilled person.

Starting from the compounds disclosed in D1, the skilled man faced with the problem of providing further heterocyclylmethyl-sulfonamide compounds for combatting harmful arthropods would have therefore considered introducing a pyrimidine group instead of the pyridine moiety disclosed in D1 and would have expected the claimed activity to be retained. Such a modification would therefore be an obvious design possibility for the skilled person in order to solve the problem posed.

Furthermore, document D2 discloses pyrimidylaminoalkyl-sulfonamide derivatives with the same physiological activity as the compounds of D1. This shows that the pyridine group can be replace by a pyrimidine ring without modification of the biological properties of the compounds.

In the light of D1 alone or in combination with D2, the skilled person would have arrived to the claimed invention without any inventive efforts.

2.4. In the light of D1, the problem may be reformulated as the provision of further heterocyclylmethyl-sulfonamide derivatives exhibiting unexpected effect(s).

The applicant has furnished comparative tests with the closest state of the art D1 (see pages 155-163 of the description and letter of 17.09.2008). The evidence on file properly demonstrates that the purported improvement of the claimed invention, i.e. superior activity against harmful fungi and/or arthropods, has successfully been achieved and that it is due to the presence of the pyrimidine ring.

2.5. Having regard to the results of the tests provided on pages 155-163 showing that all the tested compounds of the invention possess a superior activity in comparison with similar compounds according to D1, it is considered that it has been credibly shown that the problem has been solved on the whole claimed scope.

Thus, the combination of features according to claims 1-25 is neither known from, nor rendered obvious by, the available prior art.

Re Item VIII

Certain observations on the international application

According to the requirements of Article 5 PCT in combination with Rule 5.1 (v), the invention should be disclosed in a manner sufficiently clear and complete in order for it to be carried out by the skilled person in the art, i.e. at least one way of carrying out the invention should be described. In the present application, the subject-matter of claim 25 refers to seeds comprising a specific amount of the compounds of formula (I). The wording of the claims is not limited to the outer shell of the seed but also encompasses seeds wherein the compounds are inside the seed. No examples are provided in the description on how to achieve this specific feature and especially on how to recognise whether the content of compound is within the range or not. It follows a lack of disclosure for the production of the claimed seeds. In such a situation, when the invention cannot be carried out over the whole claimed area without imposing an undue burden, the disclosure may be considered insufficient in the sense of Article 5 PCT.

PATENT COOPERATION TREATY PCT/EP2007/062630

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92*bis*.1 and Administrative Instructions, Section 422)

To:

BASF SE
Patentabteilung
GVX/A - C 6
67056 Ludwigshafen
ALLEMAGNE

Date of mailing *(day/month/year)*
10 April 2008 (10.04.2008)

Applicant's or agent's file reference
M/47284-PCT

IMPORTANT NOTIFICATION

International application No.
PCT/EP2007/062630

International filing date *(day/month/year)*
21 November 2007 (21.11.2007)

1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address
BASF AKTIENGESELLSCHAFT
67056 Ludwigshafen
Germany

State of Nationality: DE
State of Residence: DE
Telephone No.:
Facsimile No.:
Teleprinter No.:

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
BASF SE
67056 Ludwigshafen
Germany

State of Nationality: DE
State of Residence: DE
Telephone No.:
Facsimile No.:
Teleprinter No.:

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office
☐ the International Searching Authority
☐ 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 82 70

Authorized officer
Blanc Veronique
e-mail Veronique.Blanc@wipo.int
Telephone No. +41 22 338 96 66

PATENT COOPERATION TREATY PCT/EP2007/062630

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92*bis*.1 and Administrative Instructions, Section 422)

To:

BASF SE
Patentabteilung
GVX/A - C 6
67056 Ludwigshafen
ALLEMAGNE

Date of mailing *(day/month/year)*
03 November 2008 (03.11.2008)

Applicant's or agent's file reference
M/47284-PCT

IMPORTANT NOTIFICATION

International application No.
PCT/EP2007/062630

International filing date *(day/month/year)*
21 November 2007 (21.11.2007)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address
VRETTOU, Marianna
U 4, 23
68161 Mannheim
Germany

State of Nationality: GR
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
VRETTOU, Marianna
Am Oberen Luisenpark, 22
68165 Mannheim
Germany

State of Nationality: GR
State of Residence: DE
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 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 75

Authorized officer
Bouveret David
e-mail pt05.pct@wipo.int
Telephone No +41 22 338 74 05

Industria y Comercio
SUPERINTENDENCIA

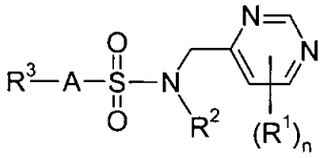
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES
EXTRACTO PARA PUBLICACIÓN
SOLICITUD DE PATENTE DE INVENCIÓN PCT

(21) N° de solicitud:	(51) Int Cl: **C07D 239/020**
22) Fecha de solicitud:	(71)Solicitante(s) **BASF SE**
(30) Prioridad (31) ***Prioridad*** (32) ***Fecha*** (33) ***País*** **06124589.0** **22/11/2006** **EP**	(72) Inventor(es) **JAN KLAAS LOHMANN Y OTROS**
	(74) Apoderado: **EMILIO FERRERO**
(85) Fecha limite inicio fase nacional: 22/06/2009 (86) Datos relativos a la presentación de la solicitud PCT Fecha de presentación de la solicitud: 21/11/2007 No. de solicitud PCT/EP2007/062630	(87) Publicación internacional Fecha: 29/05/2008 N° publicación: ***WO 2008/062011 A1***

(54) Titulo: **COMPUESTOS DE PIRIMIDILMETIL-SULFONAMIDA USADOS COMO FUNGICIDAS Y CONTRA ARTRÓPODOS**

Reivindicación(es):

1 Compuestos de pirimidilmetil–sulfonamida **caracterizados** porque tienen la fórmula (I)



(I),

donde:

n es cero, uno, dos o tres;

R^1 es halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo, haloalquil C_1–C_4–sulfinilo, alquil C_1–C_4–sulfonilo, haloalquil C_1–C_4–sulfonilo, amino, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8 o alquil C_1–C_4–cicloalquilo C_3–C_8;
y/o

un radical R^1 que está unido a un átomo de carbono adyacente a un átomo de nitrógeno del anillo pirimidina puede formar junto con dicho átomo de carbono y átomo de nitrógeno un heterociclo aromático de cinco miembros fusionado, que puede contener uno, dos o tres átomos de nitrógeno más como miembros del anillo; o

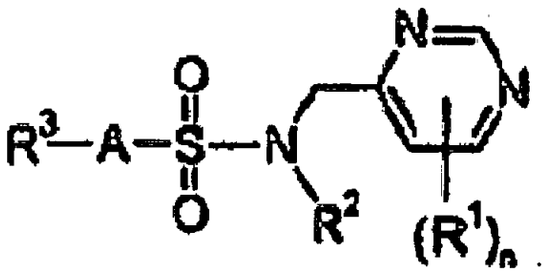
dos radicales R^1 que están unidos a átomos de carbono adyacentes del anillo pirimidina pueden formar junto con dichos átomos de carbono un anillo benceno fusionado, un carbociclo saturado fusionado o parcialmente insaturado de 5, 6 ó 7 miembros o un heterociclo fusionado de 5, 6 ó 7 miembros que contiene uno, dos o tres heteroátomos seleccionados del grupo que consiste en 2 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre como miembros del anillo, siendo posible para el anillo fusionado llevar uno o dos radicales seleccionados del grupo que consiste en halógeno, alquilo C_1–C_4, halometilo, alcoxi C_1–C_4 o halometoxi;

R^2 es hidrógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, alcoxi C_1–C_4–alquilo C_1–C_4, haloalcoxi C_1–C_4–alquilo C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8 o bencilo, en donde el resto de fenilo de bencilo no está sustituido o lleva 1, 2, 3, 4 ó 5 sustituyentes seleccionados del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo.

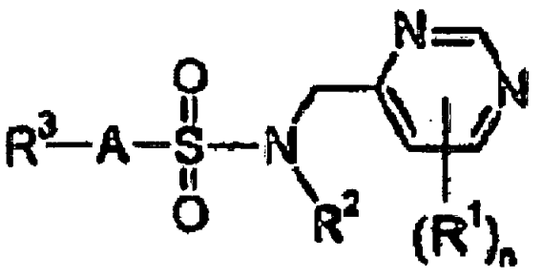
A es fenileno, heteroarendiilo de 5 ó 6 miembros, donde el heteroarendiilo contiene uno, dos, tres o cuatro heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxigeno y 1 átomo de azufre, como miembros del anillo, y donde fenileno y heteroarendiilo, por su parte, no están sustituidos o llevan 1, 2, 3 ó 4 sustituyentes R^A, cada uno seleccionado del grupo que consiste en ciano, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquenilo C_2–C_4, haloalquenilo C_2–C_4, alquinilo C_2–C_4, haloalquinilo C_2–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo, o

A es alcandiilo C_1–C_8, haloalcandiilo C_1–C_8, alquendiilo C_2–C_8, haloalquendiilo C_2–C_8, alquindiilo C_2–C_8, o haloalquindiilo C_2–C_8, en donde los últimos seis radicales mencionados no están sustituidos o llevan uno, dos o tres sustituyentes R^{AA}, cada uno seleccionado del grupo que consiste en ciano, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo y di(alquil C_1–C_4)aminocarbonilo;

R^3 es hidrógeno, alcoxi C_1–C_4, haloalcoxi C_1–C_4, alquil C_1–C_4–tio, haloalquil C_1–C_4–tio, alquil C_1–C_4–amino, di(alquil C_1–C_4)amino, (alquil C_1–C_4)carbonilo, (alcoxi C_1–C_4)iminometilo, acriloílo (vinilcarbonilo), cicloalquilo C_3–C_8, alquil C_1–C_4–cicloalquilo C_3–C_8, o cicloalquenilo C_5–C_8,
fenilo, bencilo, fenoxi, feniltio, un radical heteroarilo de 5 ó 6 miembros, en donde el anillo heteroarilo tiene 1, 2, 3 ó 4 heteroátomos seleccionados del grupo que consiste en 1, 2, 3 ó 4 átomos de nitrógeno, 1 átomo de oxígeno y 1 átomo de azufre, como miembros del anillo, siendo posible para el anillo heteroarilo y el anillo fenilo, bencilo, fenoxi y feniltio no estar sustituidos o estar sustituidos con uno, dos o tres sustituyentes R^B, cada uno seleccionado del grupo que consiste en ciano, nitro, amino, halógeno, alquilo C_1–C_4, haloalquilo C_1–C_4, alcoxi C_1–C_4, haloalcoxi C_1–C_4, (alcoxi C_1–C_4)carbonilo, di(alquil C_1–C_4)aminocarbonilo, alquil C_1–C_4–tio, alquil C_1–C_4–sulfinilo y alquil C_1–C_4–sulfonilo; o



(I)



(I)

Industria y Comercio
SUPERINTENDENCIA

REPÚBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Resolución No. № 12642

Por la cual se niega un registro

Ref. Expediente No. 09-96070

LA DIRECTORA DE SIGNOS DISTINTIVOS (c)
en ejercicio de sus facultades y

CONSIDERANDO:

PRIMERO. Que por escrito presentado el 9 de septiembre de 2009, la sociedad Productos El Sol Ltda., solicitó el registro de la marca PRODUCTOS EL SOL EL PLACER DE LA LIMPIEZA (mixta), para distinguir productos de la clase 3ª de la Clasificación Internacional de Niza.

SEGUNDO. Que publicado el extracto en la Gaceta de Propiedad Industrial No. 610, no se presentaron oposiciones por parte de terceros.

1. Examen de registrabilidad

Atendiendo a las disposiciones establecidas en la Decisión 486 de la Comunidad Andina, encontramos que, de conformidad con el artículo 150 de aquella, es deber de la oficina realizar el estudio de registrabilidad de un signo teniendo en cuenta todas y cada una de las causales de irregistrabilidad en ella contempladas, y así lo ha manifestado el Tribunal Andino de Justicia, haciendo referencia a que "el examen de registrabilidad procede tanto cuando se presenten o no observaciones, y en el primer caso, la oficina nacional competente a la vez que analiza las observaciones realiza dicho examen, el que no solo se concretará a las observaciones sino a otras situaciones y hechos que se presenten con relación al signo solicitado para registro"[1].

Es claro entonces, que el análisis de una solicitud de registro de marca, háyanse presentado o no oposiciones, se realiza en primer lugar para verificar si el signo solicitado cumple con los requisitos que debe reunir todo signo para poder ser considerado como marca, los cuales se encuentran establecidos en el artículo 134 de la Decisión 486 de la Comisión de la Comunidad Andina y, en segundo lugar, se dirige a la revisión detallada de los supuestos que hacen que se encuentre incurso en las

[1] Tribunal de Justicia del Acuerdo de Cartagena, **Proceso 14-IP-97**. En **Proceso 100-IP-2003** reitera: "la facultad conferida a la Oficina Nacional Competente para realizar el examen sobre registrabilidad del signo, constituye una obligación que precede al otorgamiento del registro marcario. *La existencia de observaciones compromete más aún al funcionario respecto de la realización del examen de fondo, pero, la inexistencia de las mismas no lo libera de la obligación de practicarlo."* (subrayas fuera del texto). Ver más en **proceso 22-IP-96** y **9-IP-96**.

Sede Centro: Carrera 13 No. 27-00 Pisos 2, 5, 7 y 10 PBX: 5870000
Sede CAN: Av. Carrera 50 No. 26-55 int. 2 Tel.: 5880070
Fax: (57 1) 5870284 - (57 1) 5870139 Línea 01800-910165
Call Center 5232695 Bogotá D.C.
Web: www.sic.gov.co e-mail: info@sic.gov.co
Bogotá D.C. - Colombia

32B

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 09-063567- -00000-0000
Fecha: 2009-06-18 17:16:05 Dep. 2020 NUECREACIONI
Tra. 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 411 PRESENTACION Folios: 324

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 09 - 41,947
FECHA : JUNIO 8 DE 2009

***** C O N S I G N A C I O N *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CAVELIER ABOGADOS	CONSIGNACION	BANCO DE BOGOTA	062754387	111846674	08/06/2009	55,819,000.00

***** C O N C E P T O *****

CANT.	RENTISTICO	CONCEPTO		TOTAL CONCEPTO
1	50005-01-01 SOLICITUDES	83	INVOCACION DE UNA PRIORIDAD EN SI	151,000.00
			TOTAL : $	151,000.00

SON: CIENTO CINCUENTA Y UNO MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No._____

COLO: 16452-841-034-7.

324

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

No. 09-063567- -00000-0000

Fecha: 2009-06-18 17:16:05 Dep. 2020 NUECREACIONI
Tra. 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 411 PRESENTACION Folios: 324

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 09 - 38,494
FECHA : MAYO 26 DE 2009

C O N S I G N A C I O N

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CAVELIER ABOGADOS	CONSIGNACION	BANCO DE BOGOTA	062754387	105577986	26/05/2009	35,575,000.00

C O N C E P T O

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-02 PRORROGAS Y RENOVACIONES	30 PRORROGAS Y RENOVACIONES	643,000.00
		TOTAL : $	643,000.00

SON: SEISCIENTOS CUARENTA Y TRES MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No._____

Cobo: 16452-841-034-7.

Industria y Comercio
SUPERINTENDENCIA

REQUISITOS MINIMOS PARA ADMISION A TRAMITE PCT

PATENTE DE INVENCION [X] MODELO DE UTILIDAD [ ]

- Indicación de que se solicita la concesión de una patente [X]
- Datos de identificación del solicitante o de la persona que presenta la solicitud [X]
- Descripción de la invención [X]
- Dibujos de ser estos pertinentes [ ]
- Comprobante de pago de las tasas establecidas [X]

COMPLETA [X] INCOMPLETA [ ]

DISEÑO INDUSTRIAL [ ]

- Indicación de que se solicita el registro de 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 [ ]

- Indicación de que se solicita el registro de un Esquema de Trazado [ ]
- Datos de identificación del solicitante o de la persona que presenta la solicitud [ ]
- Representación gráfica del esquema trazado [ ]
- Comprobante de pago de las tasas establecidas [ ]

COMPLETA [ ] INCOMPLETA [ ]

_____
Firma Responsable

Fecha

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 09-063567- -00000-0000
Fecha: 2009-06-18 17:16:05 Dep. 2020 NUECREACIONI
Tra 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 411 PRESENTACION Folios: 324

Carrera 13 No. 27-00 Piso 5, 7 y 10
Conmutador: 3 82 08 40
Fax: 350 52 20
E-mail: info@sic.gov.co
www.sic.gov.co
Bogotá, D.C., Colombia

REPUBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Folio 326

2020
Bogotá D.C.,

Doctor(a)
FERRERO EMILIO
Apoderado(a) y/o Representante de
BASF SE

REFERENCIA	Radicación No.	9 63567
	Solicitud internacional	PCT/EP2007/062630
	Fecha inicio fase nacional	22/06/2009
	Trámite	11
	Evento	379
	Actuación	416
	Oficio No.	8422
	Folios	1

Teniendo en cuenta que la solicitud de privilegio de patente que se tramita bajo el expediente indicado en la referencia, reúne los requisitos de forma establecidos en la Decisión 486 de la Comisión de la Comunidad Andina, el Tratado de Cooperación en Materia de Patentes (PCT), el Reglamento y la Circular Única de la Superintendencia de Industria y Comercio, se envía el extracto de la solicitud a la Oficina de Comunicaciones para efecto de su publicación en la Gaceta de Propiedad Industrial.

Cúmplase
Dado en Bogotá DC, 02 JUL 2009

ALIX CARMENZA CESPEDES DE VERGEL
Jefe de la división de Nuevas Creaciones

jfernand