

JOSE LLOREDA CAMACHO & CO.

ABOGADOS

Calle 72 No. 5-83 Piso 5, Bogotá, D.C. Tel: 6069700 Fax 6069701

Señor

SUPERINTENDENTE DE INDUSTRIA Y COMER
DIVISIÓN DE NUEVAS CREACIONES

E. S. D.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 08-075144- -00004-0000

Fecha: 2012-10-18 16:47:25 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 523 RESPUESTA Folios: 6

Re: PI.-ASTRAZENECA AB.-Solicitud de Patente de Invención en Fase Nacional PCT para "NUEVOS BENZOTIAZOLES SUSTITUIDOS CON HETEROARIL".-Clase C07D 417/04.-Expediente número 08-075.144.

1. Me refiero al auto dictado por ese Despacho notificado por fijación en lista de 25 de Julio de 2012 oficio No. 12743.

2. De acuerdo con el Concepto Técnico se tiene que:

"Como resultado de la búsqueda de anterioridades de materia relacionada con la de la presente solicitud, se determinó que existe en el estado de la técnica los siguientes documentos que eventualmente afectaría los requisitos de patentabilidad de esta solicitud:

- THOENES C.J ET AL.; *"Evaluation of a Rapidly disintegrating moisture resistant lacquer film coating"*; Drug Development and Industrial Pharmacy, Vol. 15, No. 2, 1989, 165-166.
- SANABRIA, D. E. ETA AL; *"Piperazine derivatives useful as CCR5 antagonists"*. Drug Development and Industrial Pharmacy, Vol. 21, No. 5, 1995, 120-123.
- DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1975 (1975-01-01), BOCCUZZI, F. CATTI ET AL: *"NMR spectra of the pyridyl-benzo-X-azoles systems"* XP002595714, retrieved from STN Database accession no. 1977:88596.
- DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1974 (1974-01-01), DI MODICA, G. ET AL: *"Benzo-x-azoly/pyridine system in relation to the synthesis of dyes"* XP002595715, retrieved form STN Database accession no. 1975:113165.

- DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1976 (1976-01-01), SAVARINO, P. ET AL: "*Azo dyes for polyamide and cellulose fibers containing pyridinebenzothiazole systems*" XP002595716 retrieved from STN Database accession no. 1976:578949.
3. Para responder a los requerimientos del señor Examinador de conformidad con el Artículo 46 de la Decisión Andina 486 de 2000, anexo me permito presentar a ese Despacho copia de los siguientes documentos solicitados:

- ♦ DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1975 (1975-01-01), BOCCUZZI, F. CATTI ET AL: "*NMR spectra of the pyridyl-benzo-X-azoles systems*" XP002595714, retrieved from STN Database accession no. 1977:88596.
- ♦ DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1974 (1974-01-01), DI MODICA, G. ET AL: "*Benzo-x-azolyipyridine system in relation to the synthesis of dyes*" XP002595715, retrieved form STN Database accession no. 1975:113165.
- ♦ DATABASE CA CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1 January 1976 (1976-01-01), SAVARINO, P. ET AL: "*Azo dyes for polyamide and cellulose fibers containing pyridinebenzothiazole systems*" XP002595716 retrieved from STN Database accession no. 1976:578949.

4. De otra parte, con respecto a los documentos:

THOENES C.J ET AL.; "*Evaluation of a Rapidly disintegrating moisture resistant lacquer film coating*"; Drug Development and Industrial Pharmacy, Vol. 15, No. 2, 1989, 165-166; y

SANABRIA, D. E. ETA AL; "*Piperazine derivatives useful as CCR5 antagonists*". Drug Development and Industrial Pharmacy, Vol. 21, No. 5, 1995, 120-123.

Muy respetuosamente me permito señalar que la solicitud de estos documentos se constituye en un error por parte de ese Despacho, toda vez que el primero de ellos no guarda relación con la solicitud en cuestión y el segundo no corresponde con ninguna citación que esté presente en la revista allí referenciada.

En vista de lo anterior, dichos documentos no son proporcionados adjuntos a este memorial.

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5. En vista de todo lo anterior, ruego a usted proceder a estudiar nuevamente la solicitud a la luz de los argumentos presentados y conceder el privilegio de patente solicitado.

Señor Superintendente,



ALICIA LLORED A RICAURTE

T.P. 53.215

Dirección para Notificaciones: notificacionespatentes@lloredacamacho.com

XP-002595714

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Exp. 08-075.144
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24/28 - (C) FILE CAPLUS

STN CA Caesar accession number : 1411

AN - 1977:88596 CAPLUS

DN - 86:88596

OREF- 86:13981a,13984a

TI - NMR spectra of the pyridyl-benzo-X-azoles systems

AU - Boccuzzi, F. Catti, Savarino, P.

CS - Ist. Chim. Org., Univ. Torino, Turin, Italy

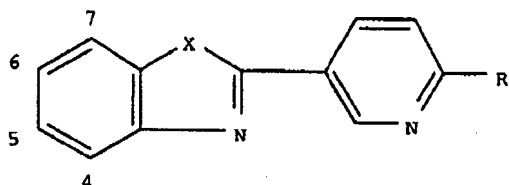
SO - Atti della Accademia delle Scienze di Torino, Classe di Scienze Fisiche,
Matematiche e Naturali (1975), 109(5-6), 655-60

CODEN: AATFAA; ISSN: 0001-4419

DT - Journal

LA - Italian

GI



AB The ¹H NMR of I (R = OH, Cl; X = O, S) were obsd. in Me₂SO and CF₃CO₂H and the H(4) - H(5) - H(6) - H(7) system was solved as an ABCD system by an iterative computer routine. Protonation of I deshielded all chem. shifts. J_{5,6}/J_{5,7} ratio was 0.85-0.87 owing to the localization in the C(4)-cis double bond in I.

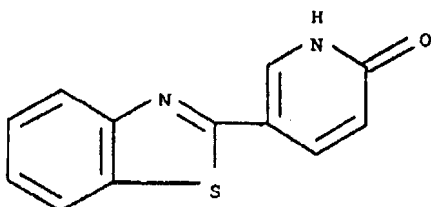
IT ***54628-01-2*** ***54628-02-3***

RL: PRP (Properties)

(NMR of, in dimethyl sulfoxide and trifluoroacetic acid)

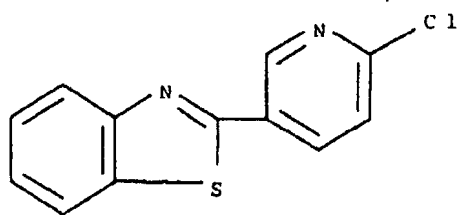
RN 54628-01-2 CAPLUS

CN 2(1H)-Pyridinone, 5-(2-benzothiazolyl)- (CA INDEX NAME)

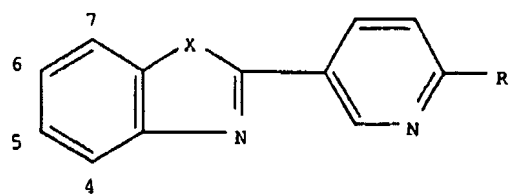


RN 54628-02-3 CAPLUS

CN Benzothiazole, 2-(6-chloro-3-pyridinyl)- (CA INDEX NAME)



GI



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Exp. 00-075.144

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26/28 - (C) FILE CAPLUS

STN CA Caesar accession number : 1413

AN - 1975:113165 CAPLUS

DN - 82:113165

OREF- 82:18087a,18090a

TI - Benzo-x-azolyipyridine system in relation to the synthesis of dyes

AU - Di Modica, G.; Savarino, P.

CS - Ist. Chim. Org. Ind., Univ. Torino, Turin, Italy

SO - Tintoria (1974), 71(10), 333-7

CODEN: TINCAW; ISSN: 0040-7984

DT - Journal

LA - Italian

GI - For diagram(s), see printed CA Issue.

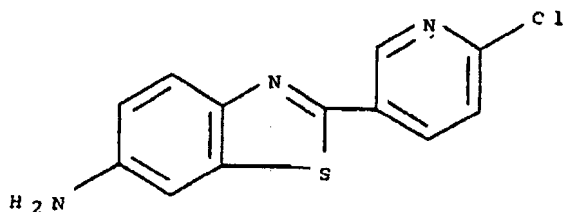
AB - The rates of nucleophilic displacement of the Cl atom in benzazolychloropyridines I (X = S)(II) [54628-02-3], I (X = O)(III) [54628-03-4], and I (X = NH)(IV) [54661-55-1] in alc. NaOH at 70.degree. decreased in the order III > II >> IV, and were lower than that of 2-chlorobenzothiazole [615-20-3]. Based on these results, a series of monoazo compds. (V), potentially useful as fiber-reactive dyes, were prepd. from the 2-hydroxy-5-pyridyl analog [54628-01-2] of II by successive nitration, chlorination redn., diazotization, and coupling with 2-naphthol [135-19-3], 3-methyl-1-phenyl-5-pyrazolone [89-25-8], and di-Na 1-acetamido-8-hydroxy-3,6-naphthalenedisulfonate [16698-16-1].

IT - 54627-97-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and azo coupling of diazotized)

RN - 54627-97-3 CAPLUS

CN - 6-Benzothiazolamine, 2-(6-chloro-3-pyridinyl)- (CA INDEX NAME)

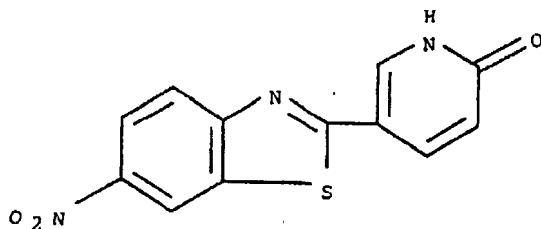


IT - 54627-95-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and chlorination of)

RN - 54627-95-1 CAPLUS

CN - 2(1H)-Pyridinone, 5-(6-nitro-2-benzothiazolyl)- (CA INDEX NAME)

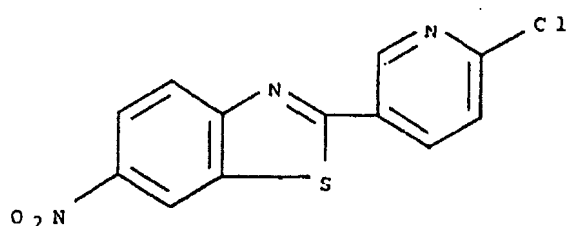


IT -54627-96-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and redn. of)

RN - 54627-96-2 CAPLUS

CN - Benzothiazole, 2-(6-chloro-3-pyridinyl)-6-nitro- (CA INDEX NAME)

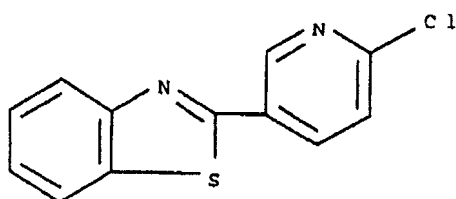


IT -54628-02-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and solvolysis kinetics of)

RN - 54628-02-3 CAPLUS

CN - Benzothiazole, 2-(6-chloro-3-pyridinyl)- (CA INDEX NAME)



IT -54627-98-4P

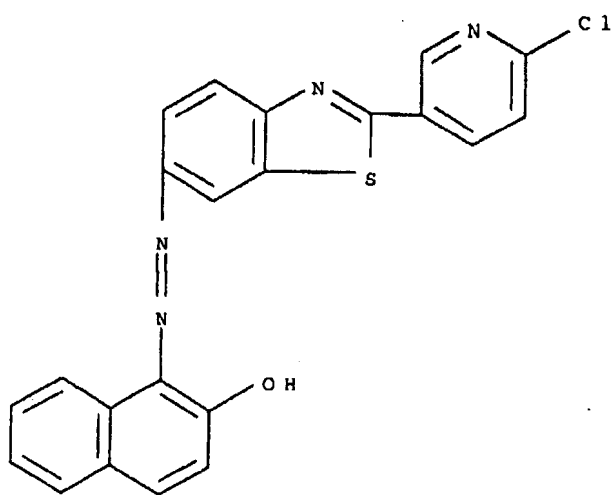
54627-99-5P

54628-00-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

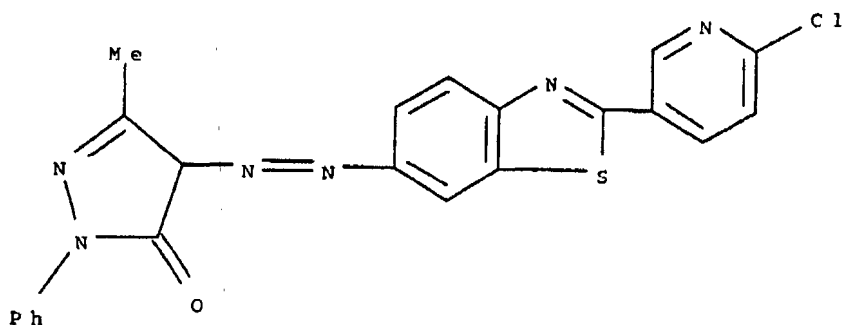
RN - 54627-98-4 CAPLUS

CN - 2-Naphthalenol, 1-[2-[2-(6-chloro-3-pyridinyl)-6-benzothiazolyl]diazenyl]-
(CA INDEX NAME)



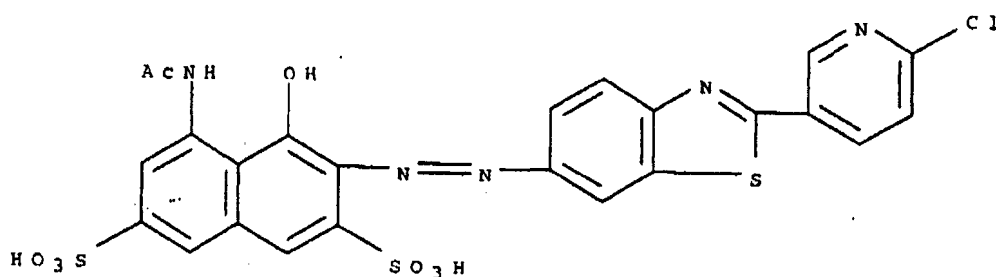
RN - 54627-99-5 CAPLUS

CN - 3H-Pyrazol-3-one, 4-[2-[2-(6-chloro-3-pyridinyl)-6-benzothiazolyl]diazenyl]-2,4-dihydro-5-methyl-2-phenyl- (CA INDEX NAME)



RN - 54628-00-1 CAPLUS

CN - 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[2-[2-(6-chloro-3-pyridinyl)-6-benzothiazolyl]diazenyl]-4-hydroxy-, sodium salt (1:2) (CA INDEX NAME)



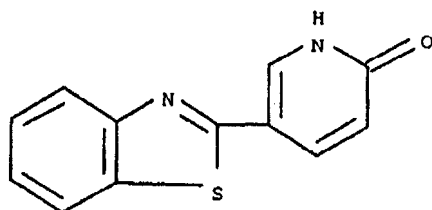
2 Na

IT -54628-01-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., chlorination and nitration of)

RN - 54628-01-2 CAPLUS

CN - 2(1H)-Pyridinone, 5-(2-benzothiazolyl)- (CA INDEX NAME)



GI - For diagram(s), see printed CA Issue.

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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iii)

25/28 - (C) FILE CAPLUS

XP-002595716

STN CA Caesar accession number : 1412

AN - 1976:578949 CAPLUS

DN - 85:178949

OREF- 85:28601a,28604a

TI - Azo dyes for polyamide and cellulose fibers containing pyridinebenzothiazole systems

AU - Savarino, P.; Barni, E.; Di Modica, G.

CS - Ist. Chim. Org. Ind., Univ. Torino, Turin, Italy

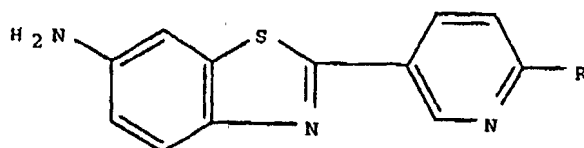
SO - Chimica e l'Industria (Milan, Italy) (1976), 58(4), 293

CODEN: CINMAB; ISSN: 0009-4315

DT - Journal

LA - Italian

GI



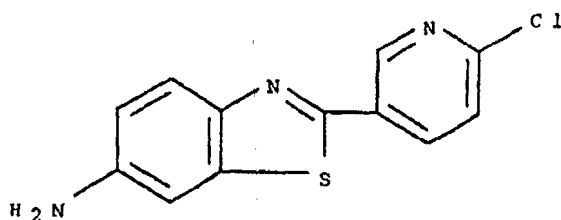
AB 6-Hydroxynicotinic acid [5006-66-6] was condensed with 2-aminothiophenol [137-07-5] to give 2-(2-hydroxy-5-pyridyl)benzothiazole [***54628-01-2***] which was nitrated and successively chlorinated and reduced to give I (R = Cl) [***54627-97-3***] which was diazotized and coupled with arom. compds. to give direct disperse azo dyes for cotton and polyamide fibers. Corresponding dyes with R = OH were also prepd. and compared with those in which R = Cl. Dyeings obtained were fast to perspiration, sublimation, and perchloroethylene, but not to light. There was no difference in washfastness between dyes of the two series, indicating that dyes with R = Cl are not fiber reactive.

IT ***54627-97-3p***

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and coupling of diazotized, with arom. compds.)

RN 54627-97-3 CAPLUS

CN 6-Benzothiazolamine, 2-(6-chloro-3-pyridinyl)- (CA INDEX NAME)

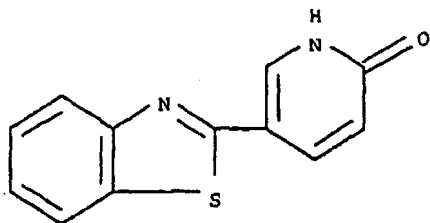


IT ***54628-01-2DP***, 2(1H)-Pyridinone, 5-(2-benzothiazolyl)-, arylazo derivs. ***54628-02-3DP***, Benzothiazole, 2-(6-chloro-3-pyridinyl)-, arylazo derivs.

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and fastness of, on cotton and polyamide fibers)

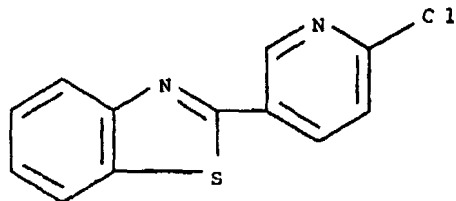
RN 54628-01-2 CAPLUS

CN 2(1H)-Pyridinone, 5-(2-benzothiazolyl)- (CA INDEX NAME)



RN 54628-02-3 CAPLUS

CN Benzothiazole, 2-(6-chloro-3-pyridinyl)- (CA INDEX NAME)

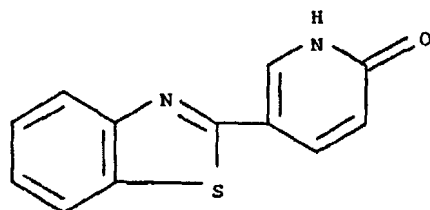


IT ***54628-01-2P***

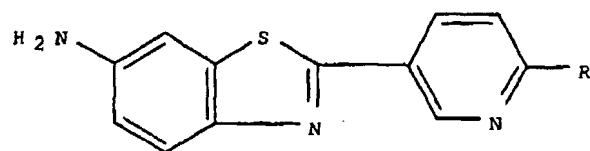
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and nitration of)

RN 54628-01-2 CAPLUS

CN 2(1H)-Pyridinone, 5-(2-benzothiazolyl)- (CA INDEX NAME)



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