



Essential Content. Proven Results.™

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A division of the American Chemical Society

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Programa

- 1.- ¿Qué es SciFinder?
- 2.- Contenido: los usuarios hablan
- 3.- CAS_Más información
- 4.- Novedades 2011-2012
- 5.- Ejemplos de búsquedas
- 6.- Más información

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1.- ¿Qué es SciFinder®?

Es sencillo...

SciFinder es la primera opción para los químicos y científicos relacionados de todo el mundo para la investigación científica

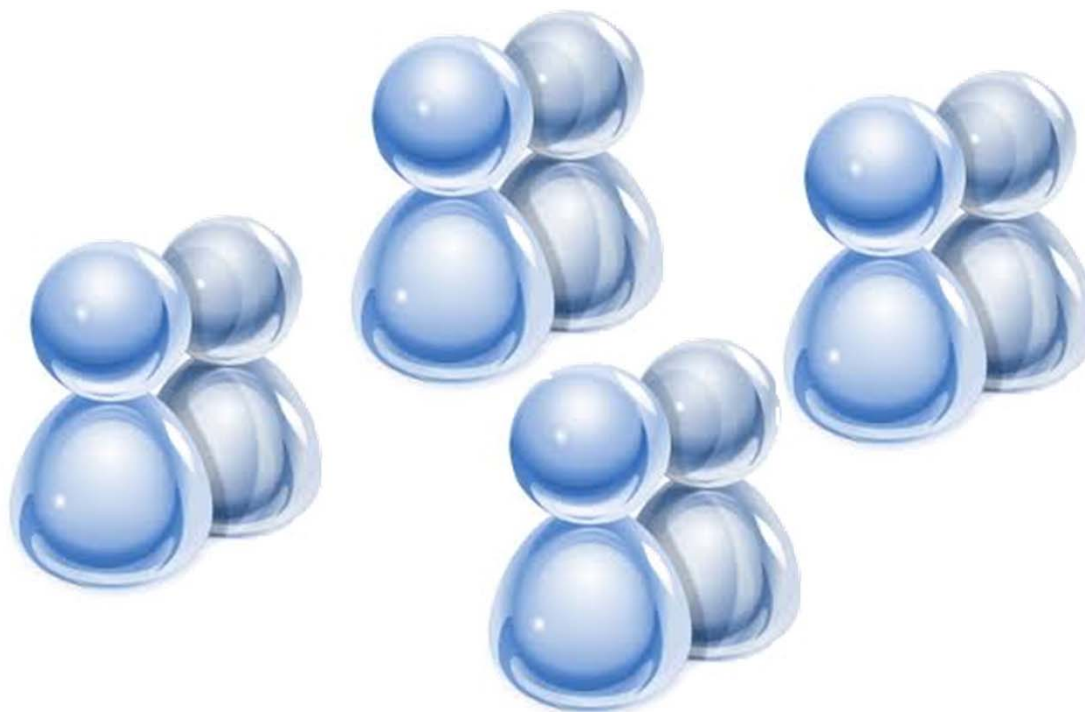


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- 5.- **Ejemplo de búsqueda**
- 6.- **Más información**

2.- ¿Qué hay en SciFinder®?

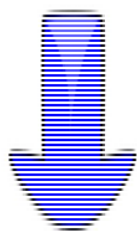
Los usuarios nos lo cuentan... ¡GRACIAS A TODOS!



2.- ¿Qué hay en SciFinder®?

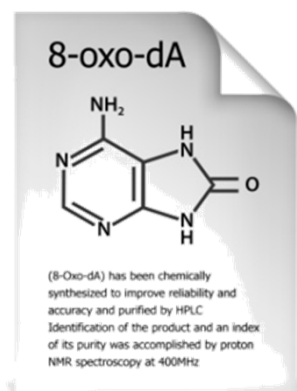
“Siempre me es útil para iniciar un trabajo de investigación puesto que me da una idea general de los trabajos existentes en el tema que quiero abordar”

Investigador, PhD, Universidad Complutense de Madrid, Oct. 2012



CAPLUS

- **Base de datos bibliográfica: acceso a la mejor colección de información química y científica.**
 - Incluye información de journals y patentes, fuentes comerciales, páginas Web contrastadas, tesis, libros, conferencias, y mucho más.

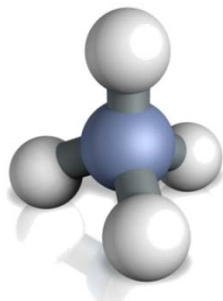
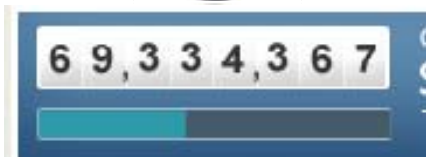
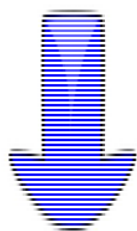


Chemical structure and name of the compound
as shown in the image are for informational purposes only.
The image is not intended to be used for any other purpose.

2.- ¿Qué hay en SciFinder®?

“Permite saber rápidamente si un compuesto orgánico está ya descrito, si alguien lo ha encontrado antes y las propiedades que se conocen del mismo”

Investigador, PhD, Universidad de Alcalá de Henares, Oct. 2012



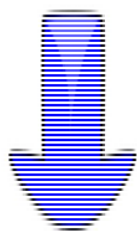
REGISTRY

- Base de datos de sustancias: la base de datos de sustancias más completa.
 - Contiene información relativa a la sustancia: propiedades, nombre, CAS RN, espectros, etc.

2.- ¿Qué hay en SciFinder®?

“Siempre que alguna reacción no funciona pero debería hacerlo, encuentro alternativas interesantes en SciFinder y en poco tiempo”

Marcos Lois, PhD, Universidad de Vigo, Oct. 2012



CASREACT

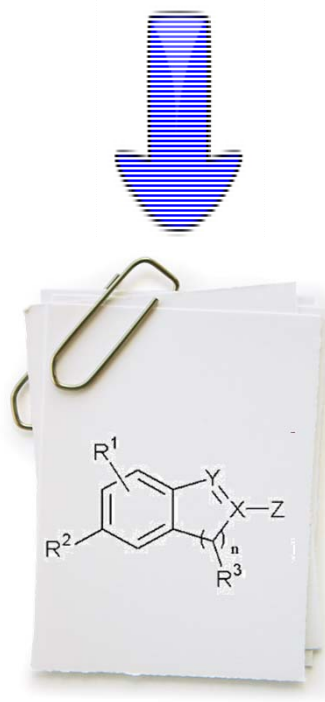
- Base de datos de reacciones: contiene más de 59 millones de reacciones
 - Contiene información relativa a la reacción: procedimientos experimentales, reacciones adicionales, condiciones de síntesis, etc.



2.- ¿Qué hay en SciFinder®?

“Para mi trabajo la información sobre las patentes accesible a través de SciFinder es muy valiosa. [...] Ninguna otra base de datos me da esta seguridad”

Ramon Eritja, PhD profesor en IQAC-CSIC, Oct. 2012



MARPAT

- **Base de datos de patentes: contiene más de 300.000 patentes y más de 949.000 fórmulas de Markush.**
 - Cobertura: todos los países que actualmente están cubiertos por CAS.

2.- ¿Qué hay en SciFinder®?

“Siempre es un punto de partida a la hora de diseñar un nuevo proyecto”

Técnico de apoyo a la investigación, Universidad de La Laguna, Oct. 2012



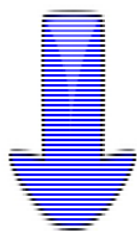
CHEMCATS

- **Base de datos de proveedores y catálogos.**
 - Contiene más de 70 millones de productos.
 - Información sobre precios, datos de contacto, cantidades, disponibilidad, etc.

2.- ¿Qué hay en SciFinder®?

“Hay cientos de situaciones en que SciFinder me ha sido de gran utilidad... y no sabría cual elegir”

Dr. Mateo Alajarín, Profesor titular, Universidad de Murcia, Oct. 2012



CHEMLIST

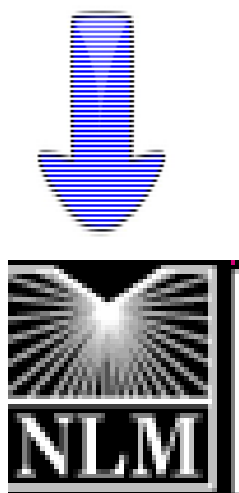
- **Base de datos de información regulatoria.**
 - Contiene más de 293.000 productos.
 - Información listas regulatorias, *Status* (Chemical Inventories), sinónimos, etc.



2.- ¿Qué hay en SciFinder®?

“SciFinder es absolutamente esencial para mi trabajo”

Dr. Santiago Vázquez, Laboratorio de Química Farmacéutica e Instituto de Biomedicina (IBUB)-Universitat de Barcelona, Oct. 2012



MEDLINE

- **Base de datos producida por la NLM.**
 - Contiene más de 18 millones de referencias.
 - Cobertura: 4.800 Journals biomédicos.

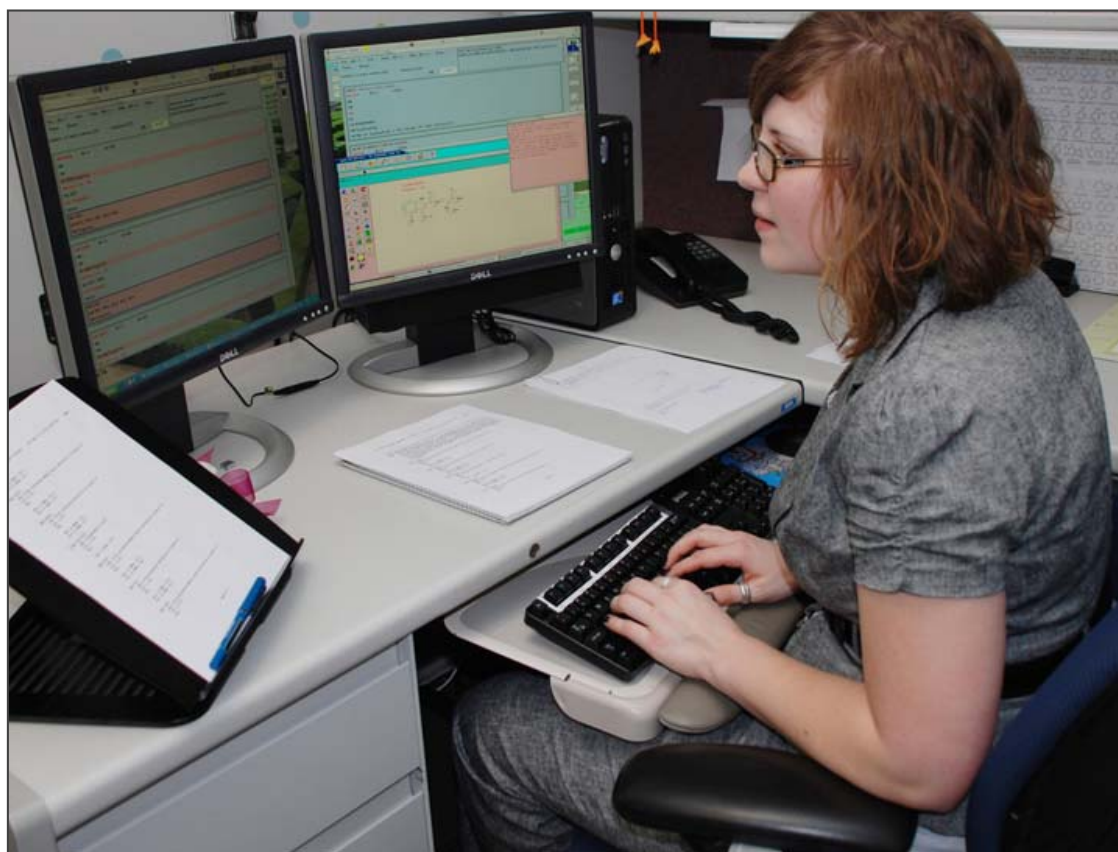
SciFinder cubre más química que cualquier otra fuente

Utilizando una sola herramienta, los científicos tienen acceso a contenido esencial:

Journals	>10,000
Ahead-of-print Journals	>100
Patent authorities	63
Small molecules	>69 million
Reactions	>59 million
Experimental procedures	>2.2 million
Commercially available products	>70 million
Experimental properties, spectra, etc.	>16 million
Sequences	>64 million

Los científicos de CAS producen bases de datos de gran calidad.

SciFinder proporciona el acceso a estas bases de datos.



El análisis intelectual por los expertos de CAS, asegura la mejor cobertura de sustancias

15

20

25

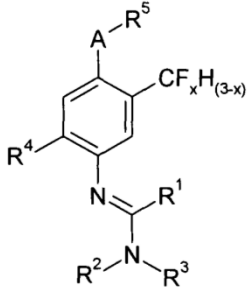
30

35

40

45

50



(I)

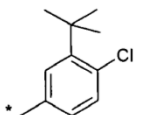
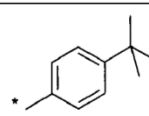
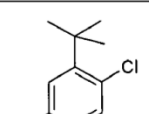
Tabelle I									
Nr.	logP neutral	logP sauer	A	R ¹	R ²	R ³	R ⁴	x	R ⁵
1		2,93	O	H	Et	Me	Me	1	
2		2,67	bond	H	Et	Me	Me	1	
3	6,68	3,26	O	H	Et	Me	Me	3	

Tabla extraída de la patente: WO2008110314

SciFinder le proporciona la información más actualizada, con actualizaciones diarias

- Actualización diaria con >3.000 referencias
- CAS REGISTRY añade >12.000 sustancias cada día
- El crecimiento del contenido de CAS refleja la investigación divulgada en todo el mundo, incluyendo Asia



“SciFinder es muy fiable y está actualizado”

Dra. Josefina Perles, Universidad Complutense de Madrid, Oct. 2012

La información que necesita, cuándo y dónde la necesite

- **Le ahorra tiempo y recursos.**
 - SciFinder le ayuda a encontrar la información que necesita rápida y fácilmente.
- **Le proporciona acceso en cualquier momento y en cualquier lugar.**
 - SciFinder Mobile le permite acceder a la mejor información química y científica.
 - Funciona con la opción SciFinder KMP (Keep Me Posted) para mantenerle al día.



scifinder.cas.org/mobile

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Cuestionario 2012 de SciFinder

<https://www.research.net/s/BKLF8DZ>



¡Gracias a todos los participantes!
¡Han sido 1.158! 😊

¡GRACIAS!

CAS CONTEST



Se registró el 6 de diciembre de 2012.

El ganador fue un estudiante de la Nottingham Trent University.

<http://web.cas.org/forms/70million.html>

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4.- ¿Qué novedades hay en SciFinder®?



“Para cualquier búsqueda SciFinder me asegura una exhaustividad casi total y con (relativo) poco esfuerzo”

Dr. Lucas Martín, Universitat Autònoma de Barcelona, Oct. 2012

“Para cada búsqueda, es rápido, muy completo y sobre todo directo”

Dr. Pascal Blondeau, Universitat Rovira i Virgili, Oct. 2012

1.- Opción “Remember me”



Sign In

Username

Password

NEW Remember me for a week unless I sign out
(Do not use on a shared computer)

[Forgot Username or Password?](#)

Your SciFinder username and password are assigned to you alone and may not be shared with anyone else.

La opción “Remember me” recuerda el Login ID y Password del usuario durante siete días

2.- Mejoras en la pantalla de resultados_Answers sets

The screenshot displays the SciFinder web interface. At the top, there are navigation links for 'Explore References', 'Explore Substances', and 'Explore Reactions'. Below this, a search bar shows the query 'Research Topic "detection of bioaerosols" > references (301)'. A toolbar contains buttons for 'References', 'Get Substances', 'Get Reactions', 'Get Related', 'Tools', and 'Send to SciPlanner'. A dropdown menu is open, showing options: '3 of 301 References Selected', 'Select All', 'Deselect All', 'Keep Selected', and 'Remove Selected'. A pagination control shows 'Page: 1 of 16'. The main content area displays a search result for 'Protein toxins Using MALDI-TOF-TOF Tandem Mass Spectrometry: Application in Bioaerosol' by Dev Vrat.

Es más fácil “navegar” entre páginas de resultados

3.- “SciFinder Help” interactivo

Map of the Explore References screen

Searching for references begins on the **Explore References** screen.

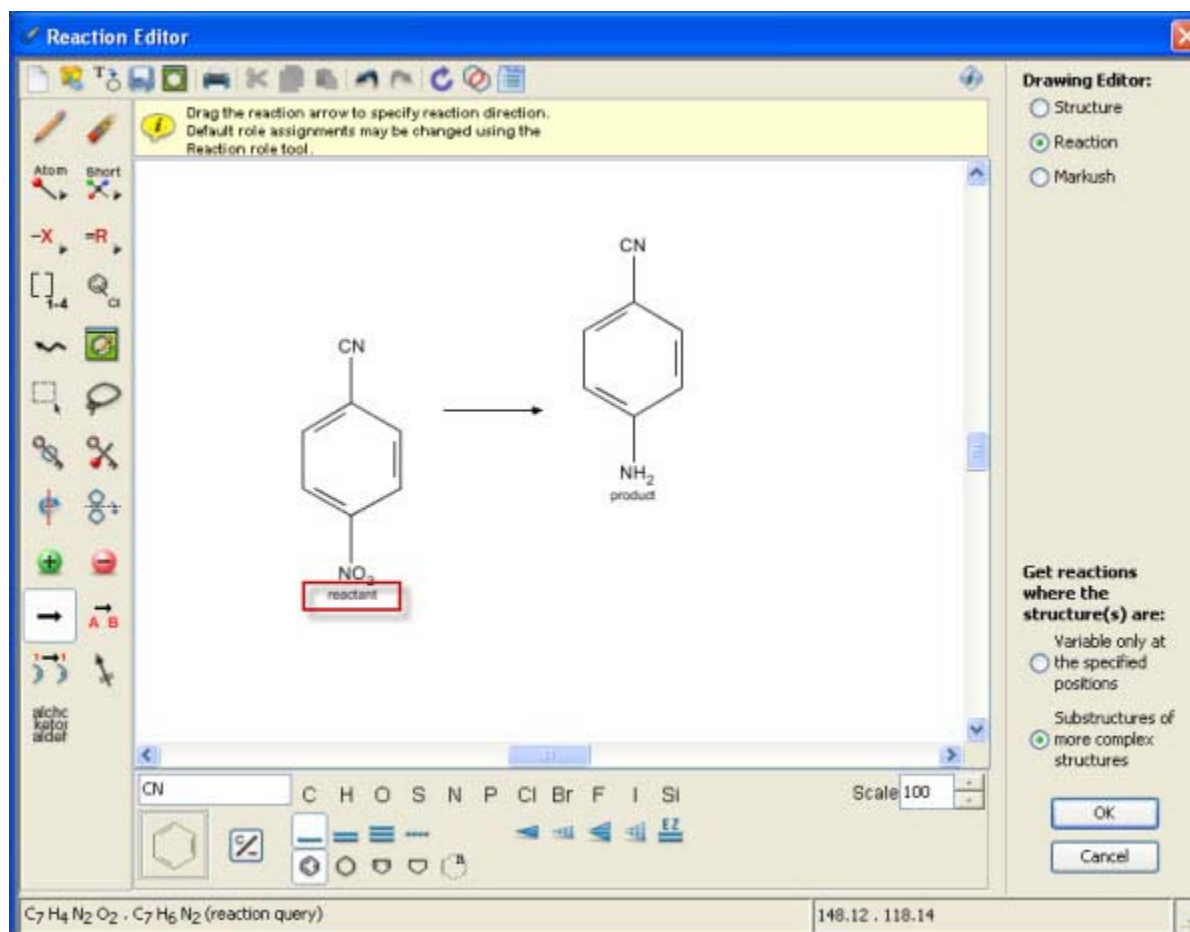
The screenshot shows the SciFinder interface with several key areas highlighted by yellow boxes labeled A through G:

- A**: Research Topic dropdown menu.
- B**: Search input field with a search button.
- C**: Publication filters (e.g., Journal, Patent, Tags).
- D**: Document Type(s) selection grid.
- E**: Saved Answer Sets panel.
- F**: Saved Answer Sets navigation links.
- G**: Explore References, Substances, and Reactions navigation buttons.

A central yellow box contains the text: "Click the letters on this interactive map to see explanations of the features on the Explore References screen."

Vaya a la opción que más le interese con un solo “click”

4.- “Reaction Answer sets” más precisos



La opción “Reactant” es la primera opción (*by default*)

5.- “Group Reaction Answers sets” por transformación

Reactions Get References Tools Send to SciPlanner

269 Reactions 0 Selected Save Print Export

NEW Group by: No Grouping Sort by: Accession Number Answers per Page [15] 1 2 3 4 5 ... 18 Display: [Icons]

Select All Deselect All

1. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.

c1ccc(cc1)C(=O)N + C#N

Reactions Get References Tools Send to SciPlanner

269 Reactions 0 Selected

NEW Group by: Transformation Sort by: Frequency Frequency Title

Select All Deselect All

1. Reduction of Nitro Compounds to Amines
117 Reactions
 $R-NO_2 \longrightarrow R-NH_2$

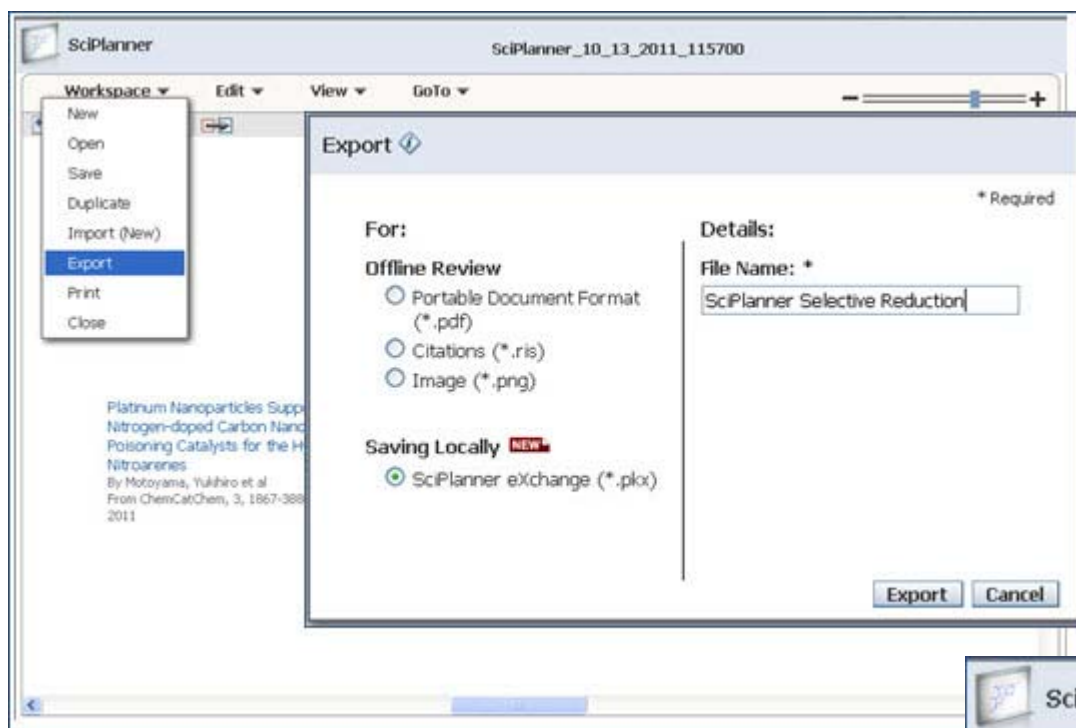
2. Reduction of Azides to Primary Amines/ Staudinger Reaction
12 Reactions
 $R-N_3 \longrightarrow R-NH_2$

3. Conversion of Aldehydes or Carboxylic Acids to Nitriles
7 Reactions

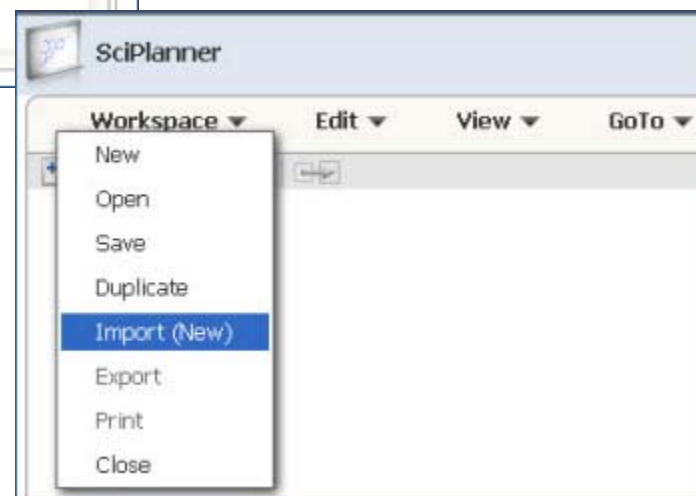
$R-C(=O)Y \xrightarrow{NH_2OH} R-C\equiv N$
Y = H, OH

Clasifique las reacciones por transformación y ahorre tiempo

6.- Comparta sus esquemas “SciPlanner™”



Comparta con sus colegas de profesión sus retrosíntesis preparadas en SciPlanner™



7.- Búsquedas por propiedad

The screenshot shows the 'Explore Substances' search interface. On the left, there is a navigation menu with options: 'Chemical Structure', 'Markush', 'Molecular Formula', 'Property' (highlighted with a 'NEW' badge), and 'Substance Identifier'. The main area is titled 'Property' and contains a 'Search' button. Below the title, it says 'Select the category and enter an appropriate value or range.' There are two radio buttons: 'Experimental' (selected) and 'Predicted'. Under 'Experimental', there is a dropdown menu for 'Median Lethal Dose (LD50) (mg/kg)' and a text input field containing '<1.0'. Below this, there is a 'Value or Range' label and a small icon. Under 'Predicted', there is a dropdown menu for 'Select Property...' and an empty text input field. Below this, there is another 'Value or Range' label and a small icon. Both input fields have a note: 'Examples: Individual value as 44, range as 25-35, or open ended range as >125 or <125'.

Busque sustancias por propiedad, ya sea teórica o experimental

8.- Dibuje estructuras a partir del número CAS

Structure Editor

Draw or change atoms or bonds. [Shortcut Keys](#)

Atom Short

-X =R

1-4

Scale 100

(query)

Add to Editor

Enter CAS Registry Number, SMILES, or InChI:

153559-49-0

Examples:
50-00-0
CCCC
InChI=15/C3H8O/c1-2-3-4/h4H,2-3H2,1H3

OK Cancel

Get substances that match your query using:

Exact search

Substructure search

Similarity search

OK
Cancel

Ahorre tiempo dibujando estructuras a partir del CAS RN

9.- “Quick View”: vea la información más relevante de una referencia y/o sustancia de forma rápida y clara

Substances **Get References** **Get Reactions** **Tools** **Send to SciPlanner**

77 Substances 0 Selected Save Print Export

Select All Deselect All Sort by: Relevance (New) Answers per Page [15] 1 2 3 4 5 6 View: [Icons]

1. Substance Detail 153559-49-0 ~620

2. Substance Detail 166175-31-1 ~2

3. Substance Detail 166175-34-4 ~2

Quick View

C₂₄ H₂₈ O₂
Benzoic acid, 4-[1-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)ethenyl]-

C₂₄ H₂₈ O₂
Benzoic acid, 4-[1-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)ethenyl]- (9CI)

Experimental Properties

“Quick View”
Sustancias

Descubra rápidamente si
la referencia o sustancia es
de su interés

Quick View

CAS Registry Number: 153559-49-0

Formula: C₂₄H₂₈O₂

CA Index Name: Benzoic acid, 4-[1-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)ethenyl]-

Other Names
Bexarotene; LG 100069; LG 1069; LG 69 (retinoid); LGD 1069; RO 26-4455; SR 11247; Targret; Targretin; Targretyn; Targrexin

Number of References
~620

Document Types
Dissertation, Journal, Patent

Properties
Experimental
Predicted

Commercial Sources
Available

CC1(C)C2=CC=C(C=C2C3=CC=CC=C3C4=CC=CC=C4C5=CC=CC=C5C6=CC=CC=C6C7=CC=CC=C7C8=CC=CC=C8C9=CC=CC=C9C10=CC=CC=C10C11=CC=CC=C11C12=CC=CC=C12C13=CC=CC=C13C14=CC=CC=C14C15=CC=CC=C15C16=CC=CC=C16C17=CC=CC=C17C18=CC=CC=C18C19=CC=CC=C19C20=CC=CC=C20C21=CC=CC=C21C22=CC=CC=C22C23=CC=CC=C23C24=CC=CC=C24C25=CC=CC=C25C26=CC=CC=C26C27=CC=CC=C27C28=CC=CC=C28C29=CC=CC=C29C30=CC=CC=C30C31=CC=CC=C31C32=CC=CC=C32C33=CC=CC=C33C34=CC=CC=C34C35=CC=CC=C35C36=CC=CC=C36C37=CC=CC=C37C38=CC=CC=C38C39=CC=CC=C39C40=CC=CC=C40C41=CC=CC=C41C42=CC=CC=C42C43=CC=CC=C43C44=CC=CC=C44C45=CC=CC=C45C46=CC=CC=C46C47=CC=CC=C47C48=CC=CC=C48C49=CC=CC=C49C50=CC=CC=C50C51=CC=CC=C51C52=CC=CC=C52C53=CC=CC=C53C54=CC=CC=C54C55=CC=CC=C55C56=CC=CC=C56C57=CC=CC=C57C58=CC=CC=C58C59=CC=CC=C59C60=CC=CC=C60C61=CC=CC=C61C62=CC=CC=C62C63=CC=CC=C63C64=CC=CC=C64C65=CC=CC=C65C66=CC=CC=C66C67=CC=CC=C67C68=CC=CC=C68C69=CC=CC=C69C70=CC=CC=C70C71=CC=CC=C71C72=CC=CC=C72C73=CC=CC=C73C74=CC=CC=C74C75=CC=CC=C75C76=CC=CC=C76C77=CC=CC=C77C78=CC=CC=C78C79=CC=CC=C79C80=CC=CC=C80C81=CC=CC=C81C82=CC=CC=C82C83=CC=CC=C83C84=CC=CC=C84C85=CC=CC=C85C86=CC=CC=C86C87=CC=CC=C87C88=CC=CC=C88C89=CC=CC=C89C90=CC=CC=C90C91=CC=CC=C91C92=CC=CC=C92C93=CC=CC=C93C94=CC=CC=C94C95=CC=CC=C95C96=CC=CC=C96C97=CC=CC=C97C98=CC=CC=C98C99=CC=CC=C99C100=CC=CC=C100

10.- “Quick View”: vea la información más relevante de una referencia y/o sustancia de forma rápida y clara

6. Cyclopropanations of Olefin-Containing Natural Products for Simultaneous Arming and Structure Activity Studies Full Text

By Robles, Omar; Serna-Saldívar, Sergio O.; Gutiérrez-Urbe, Janet A.; Romo, Daniel
From Organic Letters (2012), 14(6), 1394-1397. | Language: English, Database: CAPLUS

Cyclopropanations of alkene-contg. natural products, e.g., carvone (I), that proceed under mild conditions are reported for simultaneous arming and structure-activity relationship studies. An alkynyl diazo

Quick View

Cyclopropanations of Olefin-Containing Natural Products for Simultaneous Arming and Structure Activity Studies

Full Text

By Robles, Omar; Serna-Saldívar, Sergio O.; Gutiérrez-Urbe, Janet A.; Romo, Daniel
From Organic Letters (2012), 14(6), 1394-1397. | Language: English, Database: CAPLUS

Cyclopropanations of alkene-contg. natural products, e.g., carvone (I), that proceed under mild conditions are reported for simultaneous arming and structure-activity relationship studies. An alkynyl diazo ester, $R_1C(=N_2)CO_2(CH_2)_4C\equiv CR_2$ [$R_1 = R_2 = H$; $R_1 = C_6H_4Br-4$, $R_2 = H$; $R_1 = CN$, $R_2 = H$, $SiMe_3$], under $Rh(II)$ catalysis is employed for cyclopropanations of electron-rich olefins while an alkynyl sulfonium ylide, $HC\equiv C(CH_2)_4NHC(=O)CH_2S^+Me_2 Br^-$, is used for electron-poor olefins to give cyclopropanes, e.g., II [$R_1 = R_2 = H$, $X = O$; $R_1 = C_6H_4Br-4$, $R_2 = H$, $X = O$; $R_1 = CN$, $R_2 = H$, $SiMe_3$, $X = O$]. This approach enables simultaneous natural product derivatization for SAR studies and arming (i.e., via alkyne attachment) for subsequent conjugation with reporter tags (e.g., biotin, fluorophores, photoaffinity labels) for mechanism of action studies including cellular target identification and proteome profiling expts.

Reference Images **Substance Images**

1 2 of 2

Bioactive Alkene-Containing Natural Product (NP)

e^- poor alkene

$Rh_2(II)L_{n-1}$

e^- rich alkene

TMS

Cellular Probes

$Cu(I)L_n$

TAG

NP Structural Variants

SAR Studies

C_6H_4Br-4 , $R_2 = H$, $X = O$; R_1

“Quick View”
Referencias

11.- “Quick View”: vea la información más relevante de una referencia y/o sustancia de forma rápida y clara

Citations

Harvey, A; Drug Discov Today 2008, 13, 894 

Newman, D; J Nat Prod 2007, 70, 461 

Welsch, M; Curr Opin Chem Biol 2010, 14, 347 


Ganesan, A; Curr Opin Chem Biol 2008, 12, 306 


Carlson, E; ACS Chem Biol 2010, 5, 639 

Jung, H; J Microbiol Biotechnol 2006, 16, 651 

Stockwell, B; Nature 2004, 432, 846 


“Quick View” Citas

Substances 

1167421-27-3 

Sharpless-Huisgen cycloaddn. of, with natural product cyclopropanecarboxylate alkyne; cyclopropanations of olefin-contg. natural products for simultaneous arming and structure activity studies

Reactant; Reactant or reagent

15252-45-6 5-Hexyn-1-amine 

acylation of, with bromoacetyl bromide; cyclopropanations of olefin-contg. natural products for simultaneous arming and structure activity studies

12.- “Pricing & Availability”: información para los productos que son comerciales

The screenshot displays the 'Commercial Sources' section of a CAS interface. It lists three entries from ALDRICH, each with a 'Pricing & Availability' link highlighted in red. The sidebar on the right shows the 'Analyze by' filter set to 'Pricing & Availability (New)' with a count of 54 items.

Item	Supplier	Order Number	Quantity	Chemical Name	Link
1	ALDRICH	151874	5g, 10g, 25g, 50g, 100g, 600g, 1kg	2206-27-1 Dimethyl sulfoxide-d6 99.9 atom % D	Pricing & Availability NEW
2	ALDRICH	156914	1g, 5g, 25g	2206-27-1 Dimethyl sulfoxide-d6 '100%', 99.96 atom % D	Pricing & Availability NEW
3	ALDRICH	175943	10g, 50g, 100g, 250g	2206-27-1 Dimethyl sulfoxide-d6 99.5 atom % D	Pricing & Availability NEW

Ahorre tiempo y descubra si su compuesto de interés está disponible y cuál es su precio

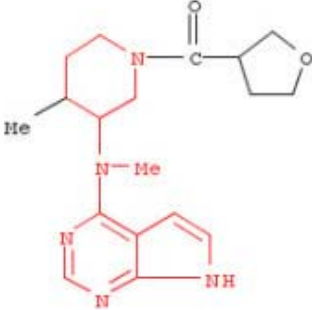
13.- Indicadores de “Bioactivity & Target”: encuentre rápidamente los indicadores de la bioactividad y *target* de las sustancias

CAS Registry Number: 384335-38-0

C₁₈ H₂₅ N₅ O₂

Methanone, [4-methyl-3-(methyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-1-piperidinyl](tetrahydro-3-furanyl)-

3-Piperidinamine, N,4-dimethyl-N-1H-pyrrolo[2,3-d]pyrimidin-4-yl-1-[(tetrahydro-3-furanyl)carbonyl]- (9CI)



CAS Role	Patents	Nonpatents
Biological Study	✓	✓
Preparation	✓	✓
Uses	✓	✓

Bioactivity Indicators <small>NEW</small>		References
Anti-inflammatory agents (all) > Antiarthritics		1
Anti-inflammatory agents (all) > Antirheumatic agents		1
Antidiabetic agents		1
Antitumor agents (all) > Antitumor agents		1
Enzyme inhibitors (all) > Enzyme inhibitors		1
Immune agents (pharmaceutical) >> Immunosuppressants		1
Nervous system agents (all) >> Anti-Alzheimer's agents		1
Respiratory system agents (all) > Antiasthmatics		1

Target Indicators <small>NEW</small>		References
Cytokines (all) >> Interleukin 2		1
Enzymes (all) >>>>>> JAK3 kinase		1

Información para una sustancia o un grupo de sustancias

Programa

- 1.- ¿Qué es SciFinder?
- 2.- Contenido: los usuarios hablan
- 3.- CAS_Más información
- 4.- Novedades 2011-2012
- 5.- Ejemplo de búsqueda
- 6.- Más información

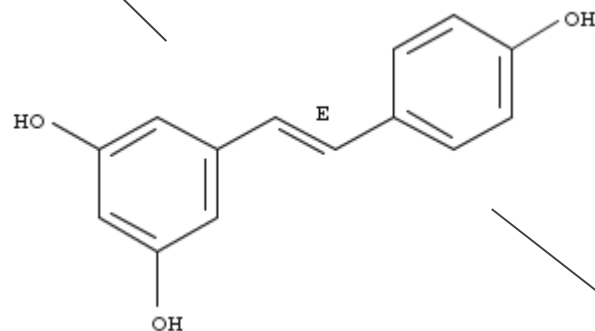
Explore research topics by entering your question or subject as you would discuss it with a colleague

“What is the role of tyrosine kinase inhibitors in the treatment of cancer?”

The screenshot displays the SciFinder search interface. At the top, there are navigation links for 'Explore References', 'Explore Substances', and 'Explore Reactions'. The main search area is titled 'Explore References' and contains a search bar with the text 'tyrosine kinase inhibitors in the treatment of cancer'. Below the search bar, there are several filter options: 'Research Topic', 'Author Name', 'Company Name', 'Document Identifier', 'Journal', 'Patent', and 'Tags'. The 'Research Topic' filter is currently selected. Below the search bar, there are three filter sections: 'Publication Year(s)', 'Document Type(s)', and 'Language(s)'. The 'Publication Year(s)' section has a text input field and examples: '1995', '1995-1999', '1995-', '-1995'. The 'Document Type(s)' section has a grid of checkboxes for various document types: Biography, Book, Clinical Trial, Commentary, Conference, Dissertation, Editorial, Historical, Journal, Letter, Patent, Preprint, Report, and Review. The 'Language(s)' section has a grid of checkboxes for various languages: Chinese, English, French, German, Italian, Japanese, Polish, Russian, and Spanish. On the right side of the interface, there are two panels: 'Saved Answer Sets' and 'Keep Me Posted Results'. The 'Saved Answer Sets' panel lists 'Lipitor_frame3_sss_patents', 'rxn_center_mechanism', and 'Synthesis Options', with a 'View All' link and an 'Import' button. The 'Keep Me Posted Results' panel lists 'Lithium ion batteries' (Oct 01, 2011(15)), 'carbon nanotubes' (Oct 01, 2011(308)), and 'Sep 24, 2011(286)', 'Sep 17, 2011(281)', with a 'View All' link.

From well-researched compounds, to those available only in chemical catalogs – SciFinder has it all

- ~6,730 References
- ▲ Reactions
- 🏪 Commercial Sources
- 🏛️ Regulatory Information



CAS Registry Number: 501-36-0

C₁₄ H₁₂ O₃

1,3-Benzenediol, 5-[(1E)-2-(4-hydroxyphenyl)ethenyl]-
 1,3-Benzenediol, 5-[2-(4-hydroxyphenyl)ethenyl]-, (E)-; 3,4',5-
 Stilbenetriol (7CI,8CI); Resveratrol (6CI); (E)-2-(3,5-
 Dihydroxyphenyl)-1-(4-hydroxyphenyl)ethene; (E)-3,4',5-
 Trihydroxystilbene; (E)-5-(p-Hydroxystyryl)resorcinol; (E)-
 Resveratrol; 3,4',5-Trihydroxy-trans-stilbene; 5-[(1E)-2-(4-
 Hydroxyphenyl)ethenyl]-1,3-benzenediol; CA 1201; Resveratrol P
 5; Resvida; Vineatrol 20M; trans-3,5,4'-Trihydroxystilbene;
 trans-Resveratrol

Biological Properties	Value	Note
ADME (Absorption, Distribution, Metabolism, Excretion)	See full text	(2) CAS
Half-Life (Biological)	See full text	(9) CAS
LC50	See full text	(13) CAS
Minimum Inhibitory Concentration	See full text	(43) CAS

Lipinski and Related Properties


Lipinski and Related Properties	Value
Freely Rotatable Bonds	5
H Acceptors	3
H Donors	3
H Donor/Acceptor Sum	6
logP	3.024±0.267
Molecular Weight	228.24

Spectra Properties

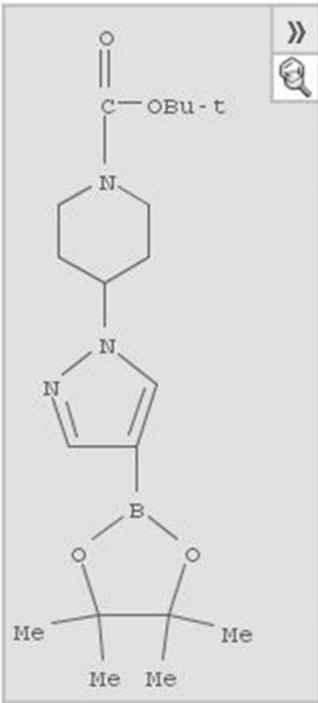
Spectra Properties	Value
Carbon-13 NMR Spectrum	See spectrum
Proton NMR Spectrum	See spectrum

SciFinder offers powerful reaction searching options

- Easily request “synthesize this” for any structure
- Get similar reactions to see alternative synthesis approaches
- View transformation centers and adjacent bonds of reactants and products
- Organize results by relevance to similarity to original query

1. View Reaction Detail  Link
2 Steps *Hover over any structure for more options*

CAS Registry Number: 877399-74-1

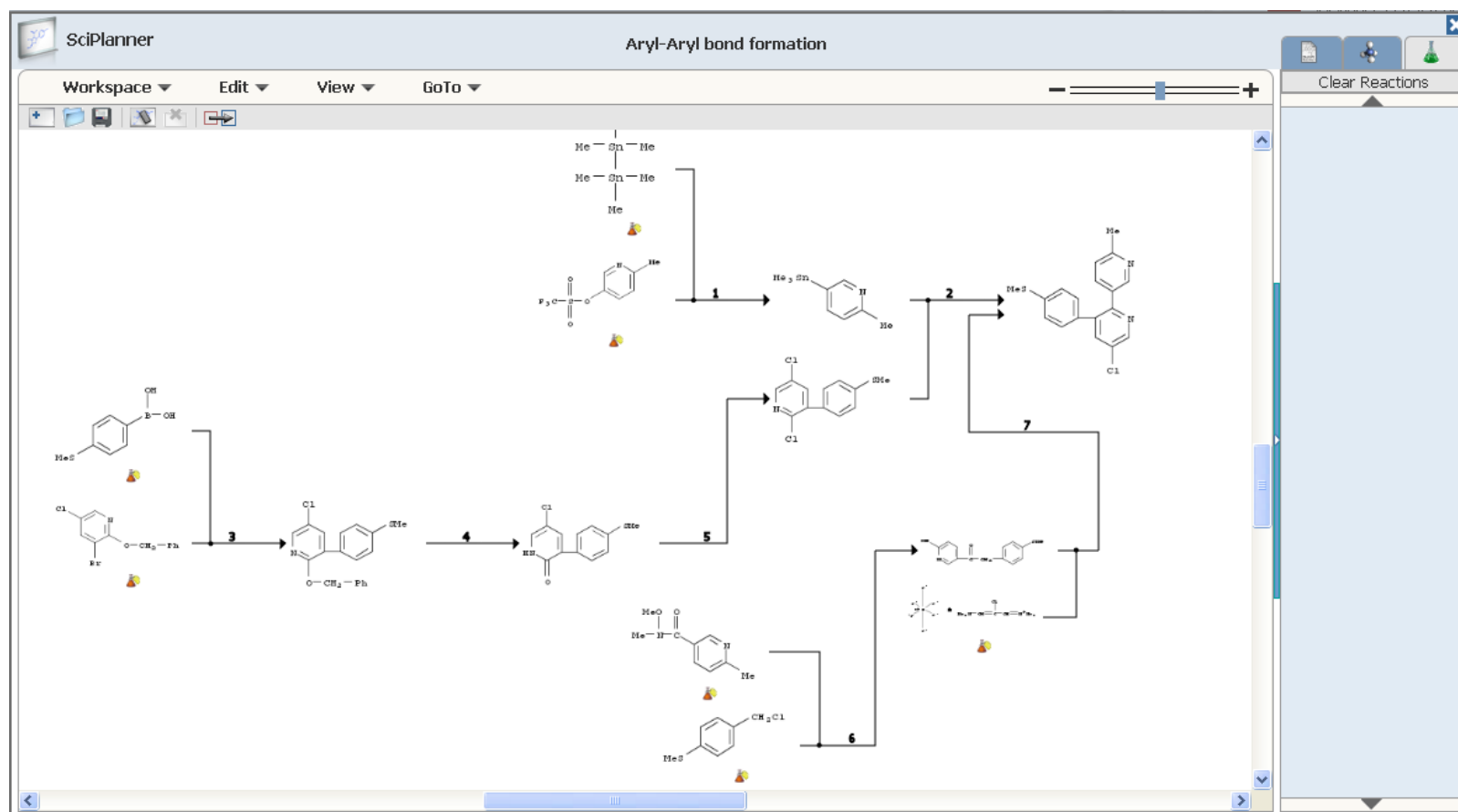


» View Substance Detail
» Explore by Structure ▶
Synthesize this...
Get Reactions where Substance is a ▶
Get Commercial Sources
Get Regulatory Information
Get References
Export as Image
Export as molfile
Send to SciPlanner

→

SciPlanner™ allows you to interactively organize and integrate your work with your searching

- Chart reaction pathways across documents, substances and reactions
- Compile and visually organize SciFinder data as you search



Example: Check novelty and design your synthesis

SciFinder®

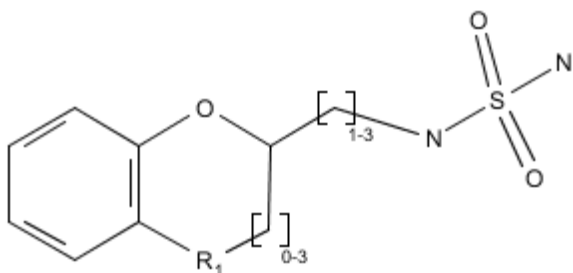
Explore
References

Explore
Substances

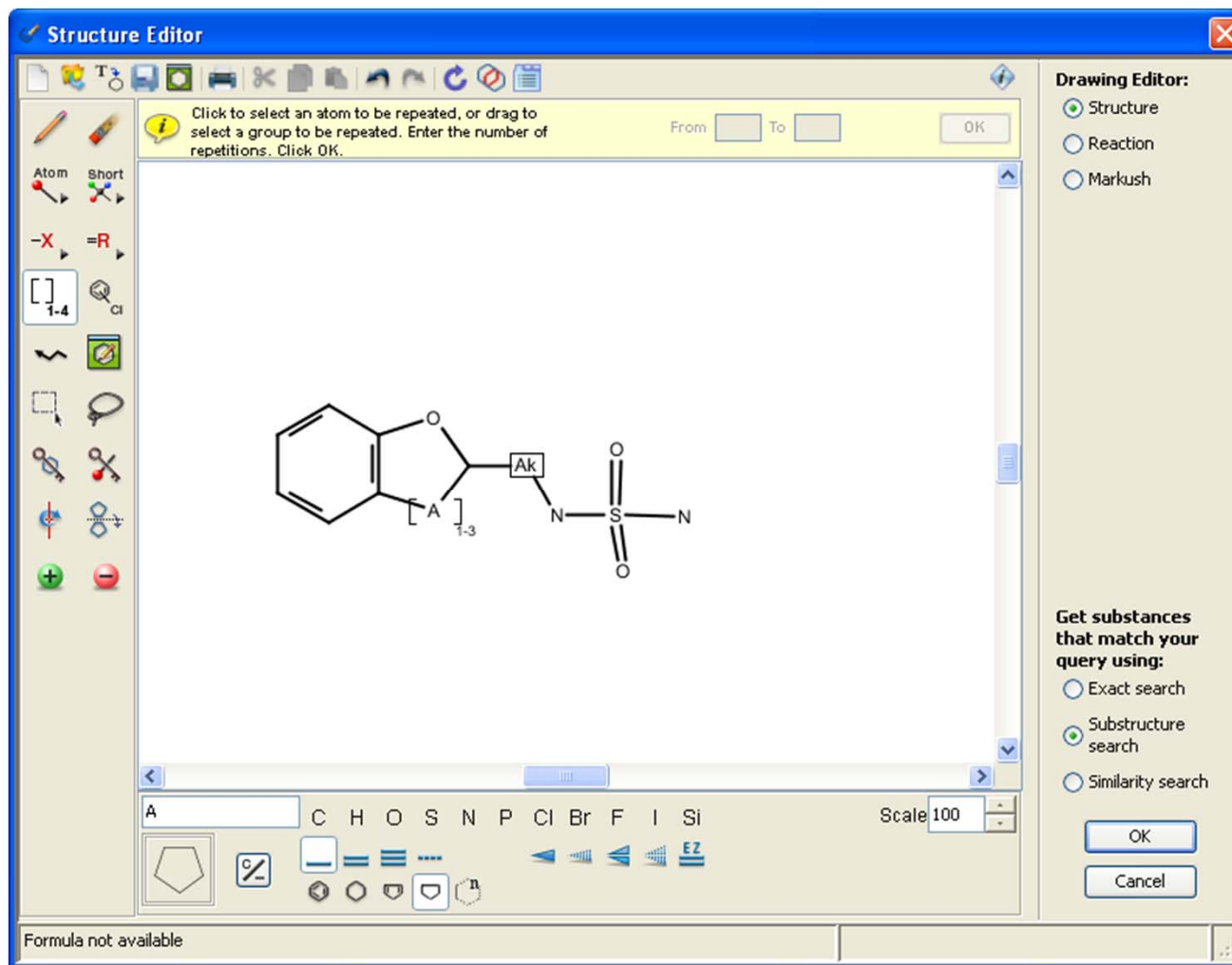
Explore
Reactions

Research topic:

Looking for novelty on benzo-fused heterocyclic sulfamides, their possible pharmacological activity and synthesis pathway



Search substances with chemical structures or other substance information to check novelty of substances



SciFinder produces 99 compounds from the journal and patent literature as well as from catalogs and libraries

SciFinder®

Explore References | Explore Substances | Explore Reactions

Welcome | Sign Out

Add KMP Alert | Chemical Structure substructure > substances (99)

Saved Answer Sets | Help
KMP Alert Results | History
SciPlanner | Preferences
What's New

Substances | Get References | Get Reactions | Tools | Send to SciPlanner

99 Substances | 0 Selected | Save | Print | Export

Select All | Deselect All | Sort by: Number of References | Answers per Page [15] | 1 2 3 4 5 6 7

View: [Icons]

<input type="checkbox"/> 1. Substance Detail 871824-55-4 ~22 Absolute stereochemistry., Rotation (-). C ₉ H ₁₁ Cl N ₂ O ₄ S	<input type="checkbox"/> 2. Substance Detail 835894-65-0 ~17 C ₁₀ H ₁₄ N ₂ O ₃ S Experimental Properties	<input type="checkbox"/> 3. Substance Detail 871824-60-1 ~16 Absolute stereochemistry., Rotation (-). C ₉ H ₁₁ Cl N ₂ O ₄ S
<input type="checkbox"/> 4. Substance Detail 835894-69-4 ~15 C ₈ H ₁₀ N ₂ O ₄ S	<input type="checkbox"/> 5. Substance Detail 871824-49-6 ~14 C ₉ H ₁₂ N ₂ O ₄ S	<input type="checkbox"/> 6. Substance Detail 871824-50-9 ~14 Absolute stereochemistry., Rotation (-). C ₉ H ₁₂ N ₂ O ₄ S

Analysis | Refine

Analyze by: [Icon]

Commercial Availability [Dropdown]

Click bar to view only those substances within the current answer set

Not Commercially Available 51
Commercially Available 48

Show More

SciFinder retrieves 31 journal and patent references that disclose one or more of the 99 compounds

SciFinder®

Explore References | Explore Substances | Explore Reactions

Welcome | Sign Out

Add KMP Alert | Chemical Structure substructure > substances (99) > get references (31)

References | Get Substances | Get Reactions | Get Related | Tools | Send to SciPlanner

31 References | 0 Selected | Save | Print | Export

Select All | Deselect All | Sort by: Accession Number | Answers per Page [20] | 1 2

Display: [List Icon] [Table Icon] [Menu Icon]

1. **Preparation of an acetylated sulfamide derivative** [Full Text]
 By McComsey, David F.; Parker, Michael H.
 From PCT Int. Appl. (2010), WO 2010011548 A1 20100128. | Language: English, Database: CAPLUS
 The present invention is directed to novel substituted sulfamide derivs., pharmaceutical compns. contg. said derivs. and the use of said derivs. form in the treatment of anxiety and related disorders; bipolar depression and mania; depression; epilepsy and related disorders; epileptogenesis; glucose related disorders; lipid related disorders; migraine; obesity; pain; substance abuse and as neuroprotective agents. I is prepd. by acetylation and formulated in capsules. The anticonvulsant activity of I is also detd. in the maximal electroshock test in mice.

2. **Crystalline form of (2S)-(-)-N-(6-chloro-2,3-dihydro-benzo[1,4]dioxin-2-ylmethyl)-sulfamide** [Full Text]
 By Mehrman, Steven J.; Wu, Wenju
 From U.S. Pat. Appl. Publ. (2009), US 20090318544 A1 20091224. | Language: English, Database: CAPLUS
 The present invention is directed to a novel cryst. form of (2S)-(-)-N-(6-chloro-2,3-dihydro-benzo[1,4]dioxin-2-ylmethyl)-sulfamide (I), pharmaceutical compns. contg. said cryst. form and the use of said cryst. form in the treatment of anxiety and related disorders; bipolar depression and mania; depression; epilepsy and related disorders; epileptogenesis; glucose related disorders; lipid related disorders; migraine; obesity; pain; substance abuse; or for neuroprotection. The present invention is further directed to a process for the prepn. of the novel cryst. form. Thus, as a specific embodi...

Analysis | Refine

Analyze by: Company-Organization

Click bar to view only those references within the current answer set

Janssen Pharmaceutica N V, Belg	14
Janssen Pharmaceutica NV, Belg	5
Chugai Pharmaceutical Co Ltd, Japan	2
USA	2
C and C Research Laboratories, S Korea	1
Haneishi Tsuyoshi	1

Categorize is a powerful tool to analyze the concepts and substances indexed in the retrieved answer set

Categorize ⓘ

1. Select a heading and category. 2. Select index terms of interest.


Category Heading ⓘ	Category ⓘ	Index Terms ⓘ	Selected Terms ⓘ
All	Substances in medicine (1279)	Select All Deselect All	Click 'x' to remove the category from 'Selected Terms'
General chemistry	Medicine (32)	<input checked="" type="checkbox"/> Anticonvulsants 11	<input checked="" type="checkbox"/> Biotechnology > Medicine (5 Terms)
Synthetic chemistry	Toxicology & forensics (5)	<input type="checkbox"/> Chemotherapy 6	
Biotechnology	Substances in adverse effects (4)	<input type="checkbox"/> Drug delivery systems 4	
Biology		<input type="checkbox"/> Drugs 3	
Physical chemistry		<input type="checkbox"/> Therapy 3	
Genetics & protein chemistry		<input type="checkbox"/> Adrenoceptor antagonists, α 2- 2	
Technology		<input type="checkbox"/> Anticoagulants 2	
Analytical chemistry		<input checked="" type="checkbox"/> Antidepressants 2	
Polymer chemistry		<input type="checkbox"/> Antiobesity agents 2	
		<input checked="" type="checkbox"/> Anxiolytics 2	
		<input type="checkbox"/> Cytoprotective agents, neuroprotectants 2	
		<input type="checkbox"/> Dopamine antagonists 2	
		<input type="checkbox"/> Drug delivery systems, capsules 2	
		<input type="checkbox"/> Drug delivery systems, oral 2	

Biotechnology > Medicine > 5 Index Term(s) Selected

OK **Cancel**

A Markush search can produce additional patents matching the broad generic definition from the claim

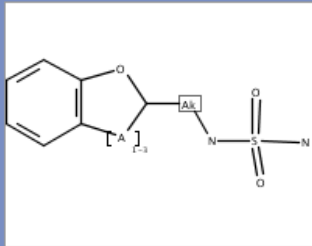
Explore Substances

Chemical Structure **Markush** 

Markush

Molecular Formula

Substance Identifier



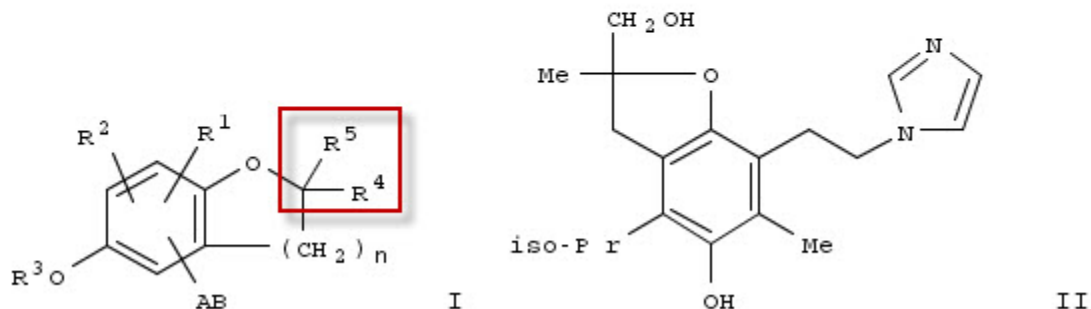
Click image to change structure or view detail

25. Preparation and formulation of dihydrobenzofuranylalkylimidazoles and analogs as antiinflammatory agents, antioxidants, and thromboxane A₂ synthetase inhibitors  Full Text

By Hasegawa, Tomoyuki; Hachitani, Katsutoshi; Nanbu, Fumio; Oonada, Shuichi

From Jpn. Kokai Tokkyo Koho (1995), JP 07316150 A 19951205. | Language: Japanese, Database: CAPLUS

The title compds. I [R¹, R² = H, halo, etc.; A = alkylene, etc.; B = N-contg. heterocyclic ring; R³ = H, acyl, etc.; R⁴ = H, alkyl, phenylalkyl; R⁵ = DE; D = alkylene, etc.; E = NR⁹R¹⁰, etc.; R⁹, R¹⁰ = H, alkyl, etc.; n = 1 - 3] are prepd. The title compd. II.HCl was prepd. in a multistep process starting from 2-(2-pivaloyloxyethyl)-3-methyl-4-acetyloxy-5-isopropyl-6-(2-methyl-2-propenyl)phenol. II.HCl in vitro at 10 μM gave 96% inhibition of thromboxane B₂ formation.



Let's create a synthesis plan for the compound in our set that has the most literature references

The screenshot displays the SciFinder interface with the following elements:

- Navigation:** Explore References, Explore Substances, Explore Reactions.
- User Area:** Welcome | Sign Out, Add KMP Alert, Chemical Structure substructure > substances (99).
- Substances List:** 99 Substances, 0 Selected. Sort by: Number of References. Answers per Page [15].
- Substance 1 (CAS 871824-55-4):**
 - Chemical structure: Clc1ccc2c(c1)OC(C2)COP(=O)(O)O
 - Properties: Absolute stereochemistry, Rotation (-).
 - Formula: C₉ H₁₁ Cl N₂ O₄ S
 - References: ~22
- Substance 3 (CAS 871824-60-1):**
 - Chemical structure: Clc1ccc2c(c1)OC(C2)COP(=O)(O)O
 - Properties: Absolute stereochemistry, Rotation (-).
 - Formula: C₉ H₁₁ Cl N₂ O₄ S
 - References: ~16
- Substance 4 (CAS 835894-69-4):**
 - Chemical structure: c1ccc2c(c1)OC(C2)COP(=O)(O)O
 - Properties: Absolute stereochemistry, Rotation (-).
 - Formula: C₉ H₁₀ N₂ O₄ S
 - References: ~15
- Substance 6 (CAS 871824-50-9):**
 - Chemical structure: c1ccc2c(c1)OC(C2)COP(=O)(O)O
 - Properties: Absolute stereochemistry, Rotation (-).
 - Formula: C₉ H₁₀ N₂ O₄ S
 - References: ~14
- Context Menu (over Substance 1):**
 - View Substance Detail
 - Explore by Structure
 - Synthesize this...
 - Get Reactions where Substance is a
 - Get Commercial Sources
 - Get Regulatory Information
 - Get References
 - Export as Image
 - Export as molfile
 - Send to SciPlanner
- Bioactivity Analysis Sidebar:**
 - Analyze by: Bioactivity Indicators (New)
 - Nervous system agents (all): 12
 - Antitumor agents (all): 6
 - Hematologic agents: 4
 - Cardiovascular agents (all): 2
 - Show More

Almost 2 million reactions have experimental procedure text directly available for a detailed view on the synthesis

Reactions Get References Tools Send to SciPlanner

56 Reactions 0 Selected
Save Print Export

Select All Deselect All | Sort by: Number of Steps
Answers per Page [15] 1 2 3 4

Display:

1. [View Reaction Detail](#) [Link](#) [Similar Reactions](#)
Single Step *Hover over any structure for more options.*

► Overview

▼ Experimental Procedure

(S)-N-(6-Chloro-2,3-dihydro-benzo[1,4]dioxin-2-ylmethyl)-sulfamide A 12-L four necked flask (equipped with mechanical stirrer, water condenser topped with a nitrogen inlet, and two stoppers) was charged with (S)-(6-chloro-2,3-dihydro-benzo[1,4]dioxin-2-yl)-methylamine (5, 214 g, 1.07 mol), sulfamide (412 g, 4.29 mol), and *iso*-propyl acetate (4 L). The reaction mixture was then heated to reflux for a total of 15 h over 3 days and then cooled to room temperature. The reaction mixture was chilled in an ice-bath and the residues were collected by filtration and washed with *iso*-propyl acetate. The filtrate was washed with 1 M hydrochloric acid (3 L), dried (MgSO₄), and concentrated to yield crude product. The entire portion of crude product was dissolved in ethyl acetate and absorbed onto silica gel (600 g) and loaded into a Biotage sample induction module, then eluted onto a Biotage 150M (2.5 g silica gel) using heptane (2 L), 1:9 ethyl acetate-heptane (4 L), 3:7 ethyl acetate-heptane (12 L), and 1:1 ethyl acetate-heptane (16 L) to yield the product along with mixed fractions. The mixed fractions were rechromatographed on a Biotage 75L (800 g silica) using heptane (1 L), 1:9 ethyl acetate-heptane (2 L), 3:7 ethyl acetate-heptane (6 L), and 1:1 ethyl acetate-heptane (8 L) to yield additional product. The two lots of product were combined to yield the title compound as an off-white solid. The title compound prepared according to the procedure as described in this Example yielded form (I-SA). **(S)-N-(6-Chloro-2,3-dihydro-benzo[1,4]dioxin-2-ylmethyl)-sulfamide** ¹H NMR (DMSO-*d*₆) δ ppm: 6.98 (d, J= 1.9 Hz, 1H), 6.89 (m, 3H), 6.67 (bs, 2H), 4.36 (dd, J= 11.7, 1.6, 1H), 4.28 (m, 1H), 4.00 (dd, J= 11.5, 6.8 Hz, 1H), 3.19 (m, 1H), 3.11 (m, 1H). Melting Point: 99-100°C. Optical rotation: [α]_D²⁰ = -57.6° (c 2.14, MeOH, 23°C). Chiral HPLC: Chiralpak AD-H, Hex(0.1 % TEA)/IPA (80:20), R_t = 11.407 min, >99% ee. Elemental Analysis for C₁₁H₁₁ClN₂O₄S: Calculated: %C 38.78, %H 3.98, %Cl 12.72, %N 10.05, %S 11.51. Measured: %C 38.81, %H 3.74, %Cl 12.83, %N 9.93, %S 11.53.

Analysis Refine

Analyze by:

Experimental Procedure

Click bar to view only those reactions within the current answer set

Experimental Procedures Available
53

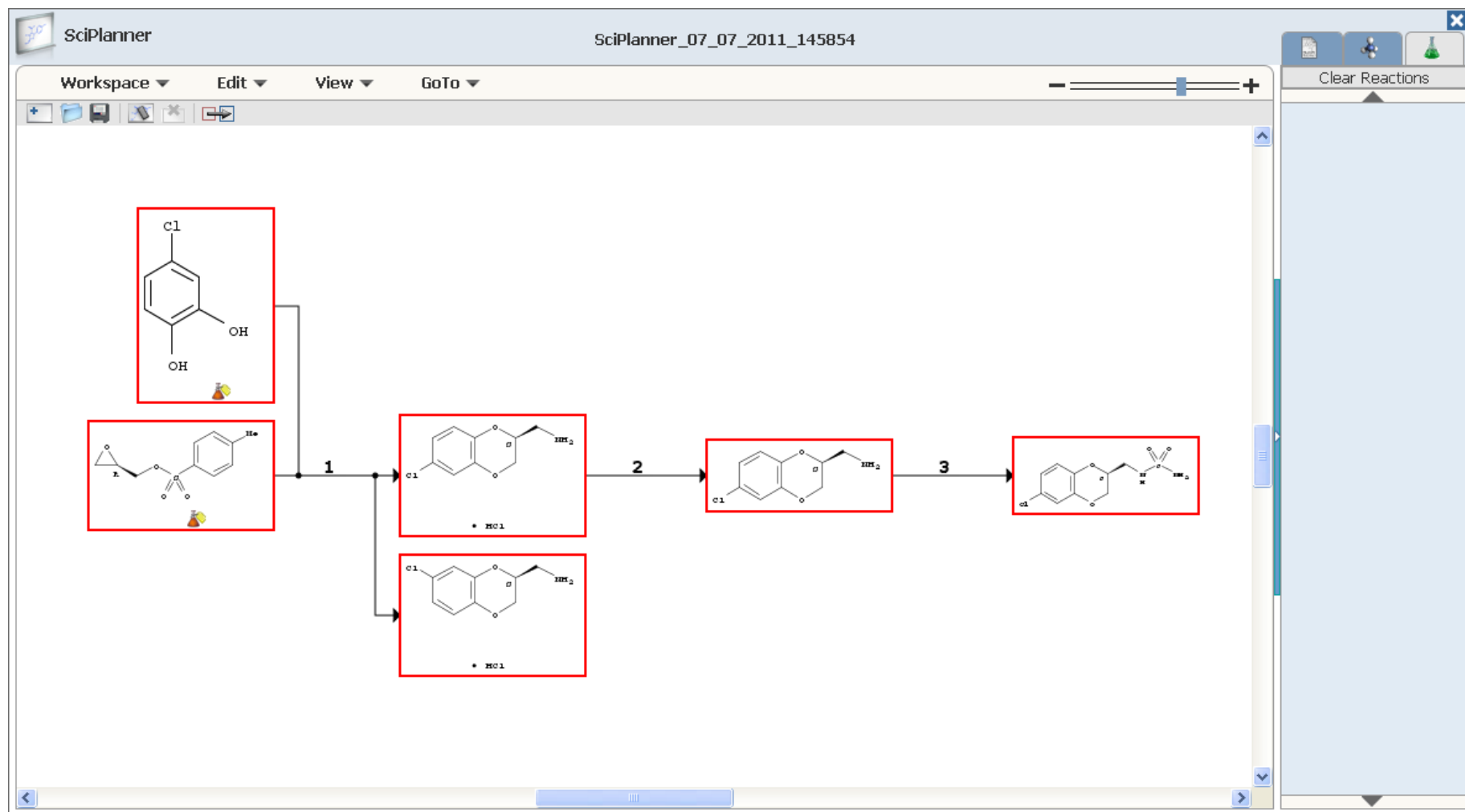
Experimental Procedures Not Available
3

[Show More](#)

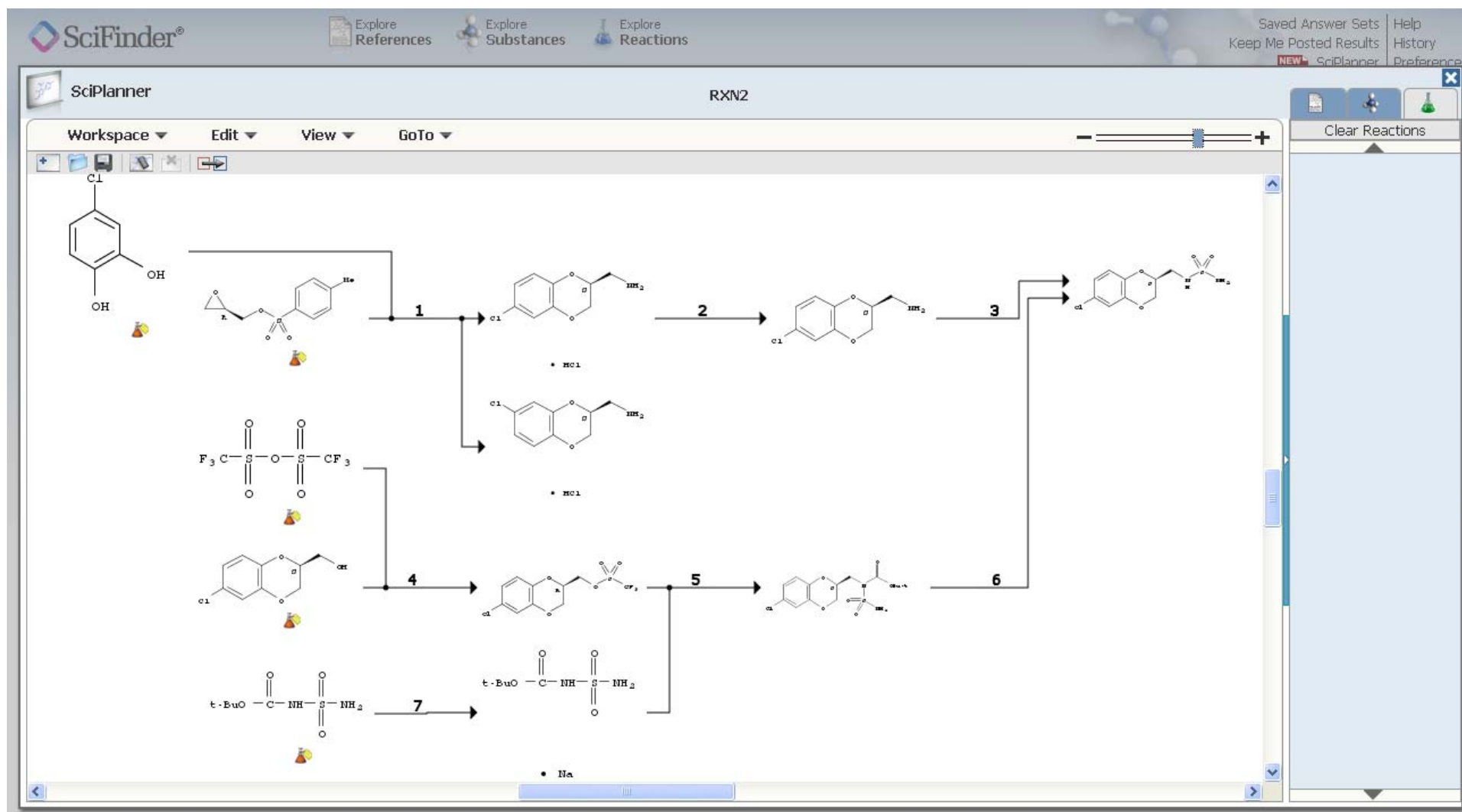
Sort, display and analyze options help make sense of larger reaction answer sets

The screenshot displays the SciFinder web interface. At the top, there are navigation tabs for 'Explore References', 'Explore Substances', and 'Explore Reactions'. A search bar contains the text 'Chemical Structure substructure substances (30) get reactions (56)'. Below the search bar, there are buttons for 'Reactions', 'Get References', 'Tools', and 'Send to SciPlanner' (highlighted with a red box). The main content area shows a list of reaction results. The first result is '19. 2 Hits in this Reference' with '2 Steps'. Below the text are chemical structures showing a reaction between an epoxide and a substituted phenol to form a complex product. The second result is '23. 3 Hits in this Reference' with '2 Steps', showing a similar reaction with a different epoxide. On the right side, there is an 'Analysis' sidebar with a 'Refine' button and an 'Analyze by:' dropdown menu set to 'Catalyst'. Below this, there are horizontal bars for '4-DMAP' (10) and 'Pd' (5), with a 'Show More' button at the bottom. Blue arrows point to the 'Sort by: Number of Steps' dropdown, the 'Display: (13 Reactions)' button, and the 'Analysis' sidebar.

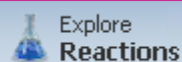
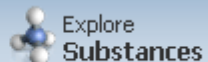
Relevant reactions can be moved to SciPlanner



Two alternative pathways to our compound were constructed out of reactions from three publications

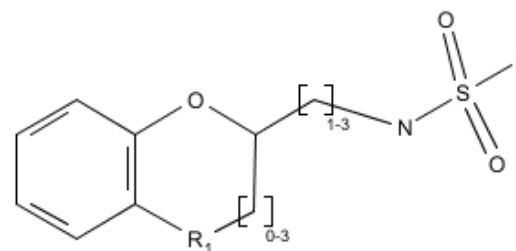


Example: Check novelty and design your synthesis



What did we learn?

- There are 99 compounds already disclosed in 31 journal and patent references
 - J&J seems to dominate the patent landscape
- There are at least 24 additional patents that may influence our freedom-to-operate
- Compounds are used in oncology as well as in neurological diseases
- Two reaction pathways were constructed for the most frequently mentioned substance

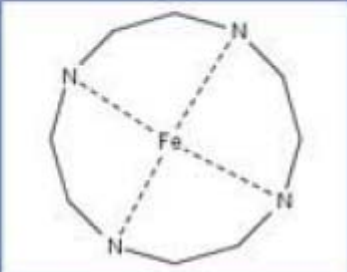


Ejemplo: Química Organometálica

Explore Substances

Chemical Structure Chemical Structure ↕

Markush
Molecular Formula
Substance Identifier



Click image to change structure or view detail

Search type: ↕

- Exact Structure
- Substructure
- Similarity

Show precision analysis

Dibuje la estructura que desee buscar

Selecione “*Class(es)*” para especificar compuestos de coordinación

Class(es) ↕

- Alloys
- Coordination compounds
- Incompletely defined

- Mixtures
- Polymers
- Organics, and others not listed

Ejemplo: Química Organometálica

Add KMP Alert Chemical Structure substructure with limiters

Precision Candidates

3 Candidates 1 Selected

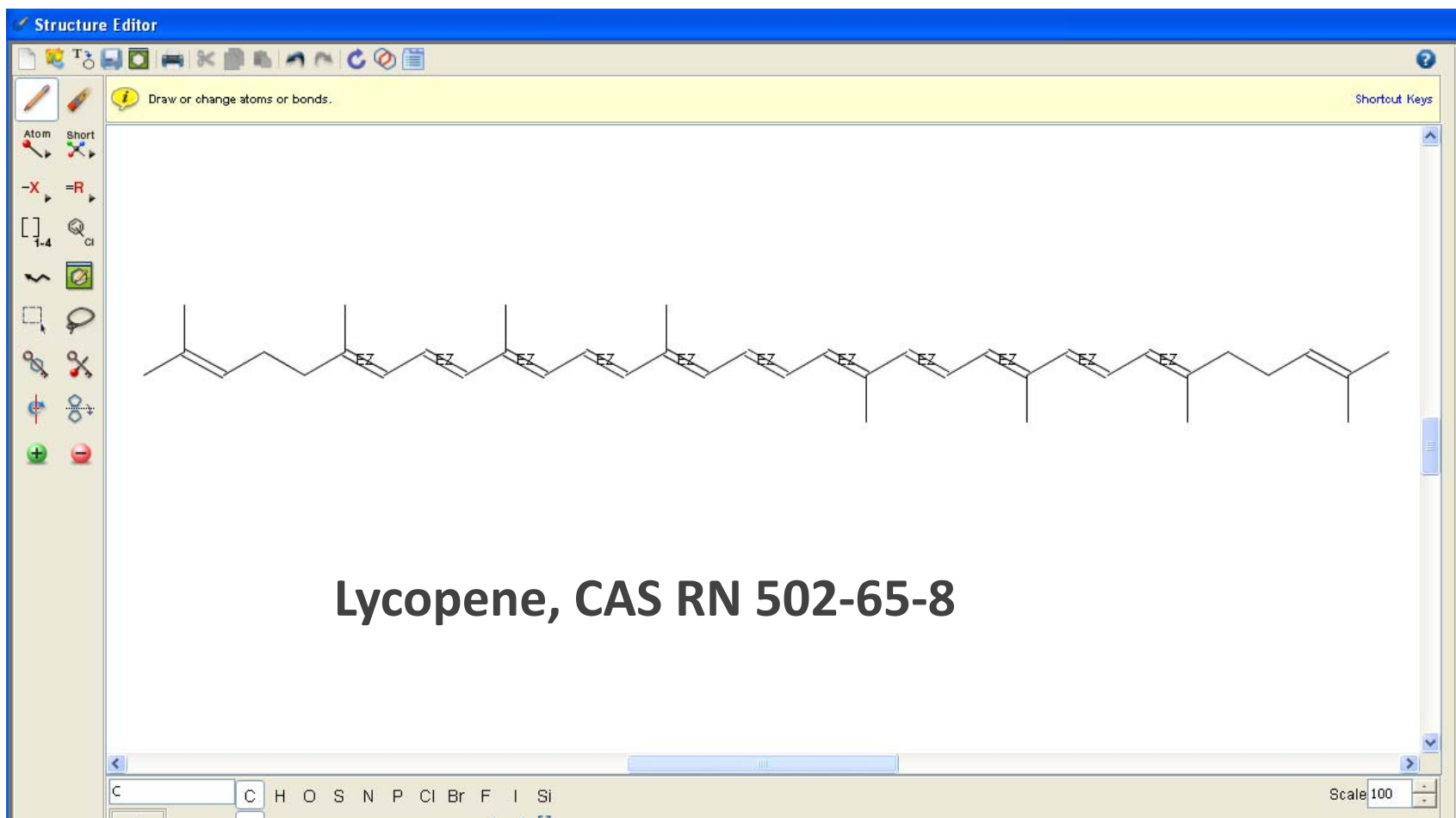
Select All Deselect All

Precision Candidates	Substances
<input checked="" type="checkbox"/> Conventional Substructure	85
<input type="checkbox"/> Closely Associated Tautomers and Zwitterions	12
<input type="checkbox"/> Loosely Associated Tautomers and Zwitterions	17
<input type="checkbox"/> Other	0

Get Substances

Para ver los resultados, seleccione
“Conventional Substructure”

Ejemplo: Biología

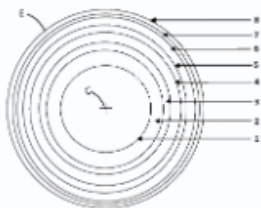


Ejemplo: Biología

Búsqueda por estructura Lycopene (CAS RN 502-65-8) o bien por tema

3. Multicarotenoid beadlets with increased bioavailability and related method [Full Text](#)

By Gellenbeck, Kevin W.; Venzon, Dawna Salter; Chandra, Amitabh; Intra, Janjira; Grann, Kerry A.
From U.S. Pat. Appl. Publ. (2013), US 20130017292 A1 20130117. | Language: English, Database: CAPLUS



A controlled release beadlet that sequentially releases carotenoids over time within the gastrointestinal tract of a subject, as well as a method of administering the carotenoids. The beadlet provides a specific ratio of carotenoids which release from the beadlet at preselected times during passage through the gastrointestinal tract. The method includes releasing the carotenoids in preselected ratios at specific time intervals in the gastrointestinal tract to mitigate competition between the carotenoids for their uptake, and/or to potentially maximize the uptake of individual carotenoids wit...

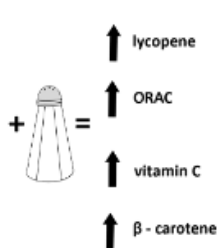
4. Multi-criteria optimized dietary supplement formulations [Full Text](#)

By Lukina, Natalia
From U.S. Pat. Appl. Publ. (2013), US 20130017182 A1 20130117. | Language: English, Database: CAPLUS

Dietary micronutrient supplement formulations for specific ages, gender, special requirements and health conditions comprising, vitamins, minerals, fish and plant oils, amino acids, enzymes, phytochem., herb and fruit exts. and other natural compds. grouped into morning, mid-day and evening formulas based on their synergism and antagonism with each other, their interactions with ingredients in the food consumed during each meal and their bioavailability. The dietary micronutrient formulations are optimized to meet the Recommended Daily Allowances (RDA) and Adequate Intake (AI) stds. for each ...

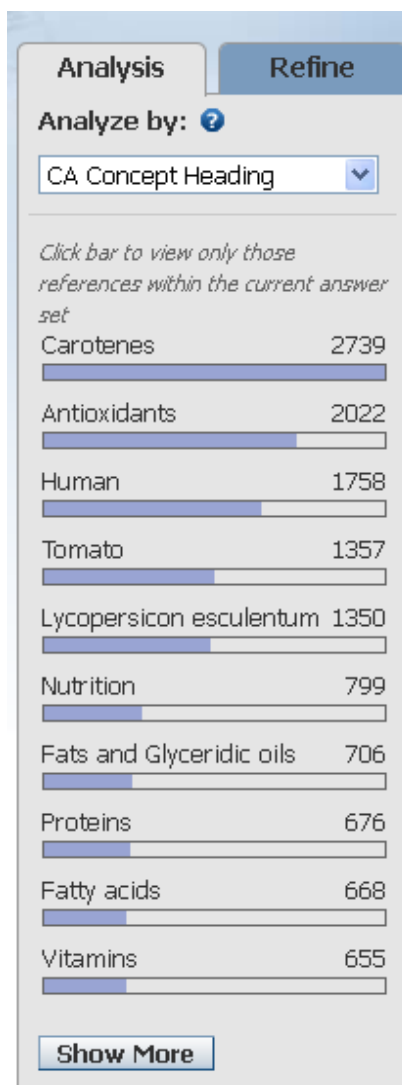
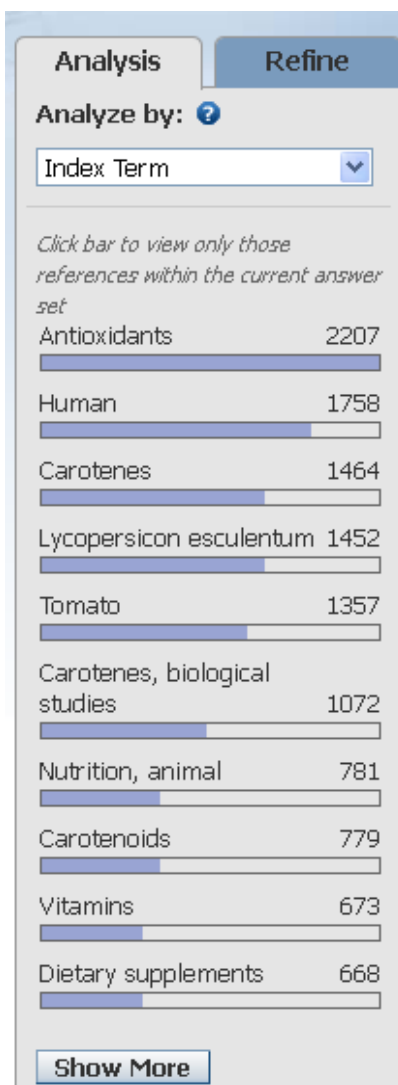
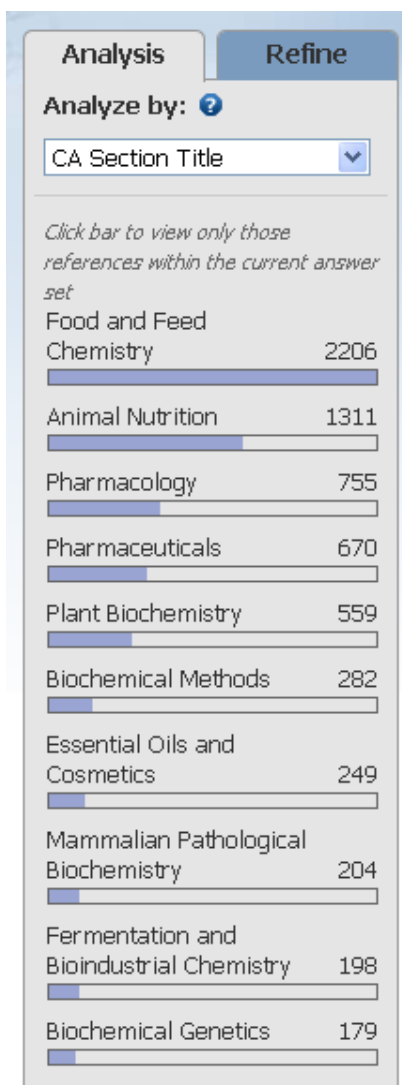
5. Tomato Fruit Antioxidants in Relation to Salinity and Greenhouse Climate [Full Text](#)

By Ehret, David L.; Usher, Kevin; Helmer, Tom; Block, Glenn; Steinke, Dan; Frey, Brenda; Kuang, Tallie; Diarra, Moussa
From Journal of Agricultural and Food Chemistry (2013), 61(5), 1138-1145. | Language: English, Database: CAPLUS



A two-year study of antioxidants in greenhouse tomato was conducted. Plants were treated continuously with nutrient soln. elec. conductivities (EC) of 2, 4, or 6 dS m⁻¹. Increasing EC reduced yield per plant and fruit size. Oxygen radical absorbance capacity (ORAC), lutein, β -carotene, lycopene, and vitamin C concns. were evaluated in harvested fruit. ORAC and all antioxidants with the exception of lutein increased with EC. None of the 10 genes involved in antioxidant metab. were affected by salinity in ripe fruit, but the expression of three of them (ZDS, CrTR-b1, and NCED1) varied with ...

Ejemplo: Biología



Analice su answer set por:

- Index Term
- CA section Title
- CA Concept Heading

Para encontrar información de su interés.

Ejemplo: Biología

CAS Registry Number: 502-65-8

C₄₀ H₅₆

ψ,ψ-Carotene

Lycopene, all-trans- (8CI); (6E,8E,10E,12E,14E,16E,18E,20E,22E,24E,26E)-2,6,10,14,19,23,27,31-Octamethyl-2,6,8,10,12,14,16,18,20,22,24,26,30-dotriacontatridecaene; (all-E)-2,6,10,14,19,23,27,31-Octamethyl-2,6,8,10,12,14,16,18,20,22,24,26,30-dotriacontatridecaene; 2,6,8,10,12,14,16,18,20,22,24,26,30-Dotriacontatridecaene, 2,6,10,14,19,23,27,31-octamethyl-, (6E,8E,10E,12E,14E,16E,18E,20E,22E,24E,26E)-; C.I. 75125; E 160d; Lyco Vit; Lyconat; Lycopene; Lycopene 7; Lycopene Base; Lycored; Mexoryl SAQ; NSC 407322; Redivivo; Tomat-O-Red; all-trans-Lycopene; trans-Lycopene

Deleted CAS Registry Numbers: 7634-65-3, 25453-98-9, 360790-67-6



▼ Bioactivity Indicators

	References
Anti-inflammatory agents (all) > Anti-inflammatory agents	123
Antitumor agents (all) > Antitumor agents	343
Cytoprotective agents (all) > Cytoprotective agents	88
Natural products MD pharmaceutical	214

▼ Target Indicators

	References
Apoptosis-regulating proteins (all) > Bax proteins	12
Apoptosis-regulating proteins (all) > Bcl-2 proteins	15
Connexins	15
Cytokines (all) >> Interferons	10
Cytokines (all) >>> Interleukin 1β	11
Cytokines (all) >>> Interleukin 1β	11
Cytokines (all) >> Interleukin 6	16
Cytokines (all) >> Interleukin 6	16
Cytokines (all) >> Interleukin 6	16
Cytokines (all) >> Tumor necrosis factor α	35
Cytokines (all) >> Tumor necrosis factor α	35
DNA formation factors (all) > Proliferating cell nuclear antigen	10
Enzymes (all) >>> Alanine aminotransferase	21

Utilice los indicadores de *Bioactivity* y *Target* para encontrar más información

Ejemplo: Biología

Categorize ?

1. Select a heading and category. 2. Select index terms of interest.

Category Heading	Category	Index Terms	Selected Terms
All	Substances in biology (13182)	Page: 1 of 32 Select All Deselect All	
General chemistry			
Biology	Organisms (3110)	<input type="checkbox"/> Tomato 1828 <input type="checkbox"/> Vegetable 437 <input type="checkbox"/> Grape 252 <input type="checkbox"/> Carrot 219 <input type="checkbox"/> Escherichia coli 193 <input type="checkbox"/> Soybean (Glycine max) 173 <input type="checkbox"/> Plant (Embryophyta) 162 <input type="checkbox"/> Watermelon (Citrullus lanatus) 146 <input type="checkbox"/> Animal 138 <input type="checkbox"/> Orange 133 <input type="checkbox"/> Spinach (Spinacia oleracea) 125 <input type="checkbox"/> Yeast 117 <input type="checkbox"/> Blakeslea trispora 113 <input type="checkbox"/> Grapefruit 113	
Biotechnology	Processes & systems (406)		
Genetics & protein chemistry	Anatomy (470)		
Physical chemistry	Animal pathology (458)		
Technology	Substances in adverse effects (637)		
Analytical chemistry	Endocrinology (229)		
Polymer chemistry	Immunology (236)		
Synthetic chemistry			
Environmental chemistry			
Catalysis			

Biology > Organisms



OK Cancel

Opción Categorize: analice y refine

Ejemplo: Ingeniería Química



Búsqueda por tema: “Potabilización del agua de mar” Opción CATEGORIZE

0 of 389 References Selected Page: 1 of 20

1. **Water defluoridation using nanofiltration vs. reverse osmosis: the first world unit, Thiadiaye (Senegal)**   Full Text



By Pontie, Maxime; Dach, Hanane; Lhassani, Abdekhaadi; Diawara, Courfia Keba
From Desalination and Water Treatment (2013), 51(1-3), 164-168. | Language: English, Database: CAPLUS

The possibility of producing **drinking water** from **brackish** groundwater polluted with F- using nanofiltration (NF) process was previously studied at a pilot scale. **Brackish** groundwaters were taken from the south of Morocco (Tan Tan city) and from the center west of Senegal (Thiadiaye City). The performances of few commercialized NF spiral wound elements, low-pressure reverse osmosis (LPRO), and reverse osmosis (RO) were compared to a large-scale pilot expts. (membrane area, 7.6 m²). The following parameters were detd.: hydraulic permeability, total salinity; and Cl-, F-, and SO₄²⁻ removals we...

2. **Solar energy seawater purifier**   Full Text



By Geng, Shida
From Faming Zhuanli Shenqing (2013), CN 102863038 A 20130109. | Language: Chinese, Database: CAPLUS

The title solar energy **seawater** purifier comprises a solar collector, a **water** duct with a valve, a temporary **water** tank, a **seawater** tank, a heat exchange separator with V-shaped profile, and a **water** port set on the base of the **seawater** tank. The solar energy **seawater** purifier can be **used** for generating **drinking water**.

3. **Seawater desalination method via nanofiltration-reverse osmosis-multistage flash evaporation-low temperature distillation**   Full Text

By Gao, Xueli; Song, Yuefei; Su, Baowei; Gao, Congjie
From Faming Zhuanli Shenqing (2013), CN 102849887 A 20130102. | Language: Chinese, Database: CAPLUS

The title method comprises: (1) feeding the pretreated raw **seawater** into the heat exchanger of the thermal emission section of a MED or MSF **seawater** desalination system to condense vapor and recover heat, to obtain warm **seawater**, (2) pumping the warm **seawater** into an ultrafiltration device, and then introducing the produced **water** into a nanofiltration device to remove SO₄²⁻, Ca²⁺ and Mg²⁺, (3) pumping the softened **water** from nanofiltration device into a reverse osmosis device to obtain concd. **water** and produced **water**, (4) directly **using** the energy-recovered concd. **water** from reverse osmosis as...

4. **Study on the removal of boron from water**   Full Text

By Hou, Ruoxin; Gu, Ping; Wei, Xiaozhu; Zhang, Guanghui
From Gongye Shuichuli (2012), 32(3), 14-18. | Language: Chinese, Database: CAPLUS

A review, with 42 refs. Boron has been widely **used** in every field of modern industries. Therefore, the boron-contg. wastewater has caught more attention than ever before. Because of the high content of boron in **brackish water** and **sea water**, it is necessary to remove boron from **brackish water** and **sea water** before being **used** as **drinking** or irrigation **water**. Now, boron removal from **water** has gradually become one of the research hot spots and focus of attention. The environment std. relating to boron and the methods for removing boron from **water** are introduced briefly. The advantages and dis...

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¡Muchísimas gracias por vuestra atención!



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