Web version of SciFinder®: new interface and features

Bhawat Ruangying, CAS representative

Updated at 22 Dec 2009

CCF

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SciFinder web interface

SciFina	ler [®] Part of the	process™
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Sign In	42 1 11	
Username	Ag Co	1
Password	emember my username	
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	ne and may not be shared	
What is	SciFinder is a research discovery tool that allows you to a the CAS databases containing literature from many scien	
SciFinder?	disciplines including biomedical sciences, chemistry, engi materials science, agricultural science, and more!	

Welcome to SciFinder

NEW! The new web version of SciFinder makes access to SciFinder even more essential to your scientists research process. Some of the **new features** include:

- Direct links to data
- Keep Me Posted enhancements
- Improved search precision
- Session history retention
- Index term linking

Visit www.cas.org for more information about the latest release. View the new SciFinder podcasts!

Content at a Glance

- More than 15 million single- and multi-step reactions
- More than 1 billion predicted property values
- · More than 2 million experimental properties
- The CAS REGISTRY database the original source and final authority for CAS Registry Numbers - updated daily
- All patent records, meeting CAS selection criteria, from 9 of the major patent offices are available online within 2 days of the patents' issuance
- Sequences combined from CAS and GenBank databases,

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Technical aspects of SciFinder Web

- SciFinder URL : <u>http://scifinder.cas.org</u>
 - Windows-based browsers Internet Explorer 6.x and 7.x as well as FireFox 2.x
 - Mac browser support for Firefox and Safari
 - Java applet (J2SE Runtime Environment 6.0, which installs Java 1.6 version) installed on users' computers for CASDraw to operate
- No software or sife.prf required
- Network requirement:
 - https (SSL) connection via port 443 to scifinder.cas.org
 - http connection on port 80 to chemport.cas.org
- Client based SciFinder will continue to be fully supported by CAS



Online user registration consists of two steps

Key Contact Setup

- Log on to myCAS to use set-up registration capabilities
- Verifies email domain(s) are correct and sufficient
- Sends CAS corrections or updates as needed
- Generates unique registration URL for distribution to users

User Registration

- Obtains the registration URL
- Creates a new username and password online
- Enters required email address and other information
- Confirms registration via email



User enters the information

Please provide the f bold" = required)	ollowing information:	match valid domain(s) and the entire address	
	- CONTACT INFORMATION	must be unique.	
First Name*:			1
Last Name*:			
E-mail*:		Username and	
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Password*:		What is the name of the city	
Re-enter Password*:		where you grew up?	
Re-enter Password :		What is the name of your	
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		Wiv2 • What is your favorite	
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Email validation for new IDs

SciFinder* Thank you for completing the initial step in registering to use SciFinder! To complete the registration process, you will receive an email from CAS with further instructions. Close

User receives email confirmation

Seneric Email Message Tool

To... <End user email address>

Subject: SciFinder Registration Completion

From: CAS

Cc...

Dear ≺Username≻,

To complete your SciFinder registration, you must click the link provided below. By clicking the link, you agree to all of the following terms and conditions:

- I will not share my username and password with any other person.
- I will search only for myself and not for others or other organizations.
- I will not use any automated program or script for extracting or downloading CAS data, or any other systematic retrieval of data.
- I may retain a maximum of 5,000 Records at any given time for personal use or to share within a Project team for the duration of the Project.
- My organization's SciFinder License and the CAS Information Use Policies (<u>http://www.cas.org/legal/infopolicy.html</u>) apply to my use of SciFinder.

<registration complete link>

If you need assistance at any time, consult the key contact at your organization.

Thank you!



User is now ready to access



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A varity of ways to explore

- Research Topics
- Chemical names or structures
- Reaction structure drawings
- Functional group tranformation



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SciFinder web interface

SciFina	ler [®] Part of the	process™
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Sign In	42 1 11	
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Sig	not Username or Password?	
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What is	SciFinder is a research discovery tool that allows you to a the CAS databases containing literature from many scien	
SciFinder?	disciplines including biomedical sciences, chemistry, engi materials science, agricultural science, and more!	

Welcome to SciFinder

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Content at a Glance

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- Sequences combined from CAS and GenBank databases,

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SciFinder allows for integrated searching of these essential resources for scientists

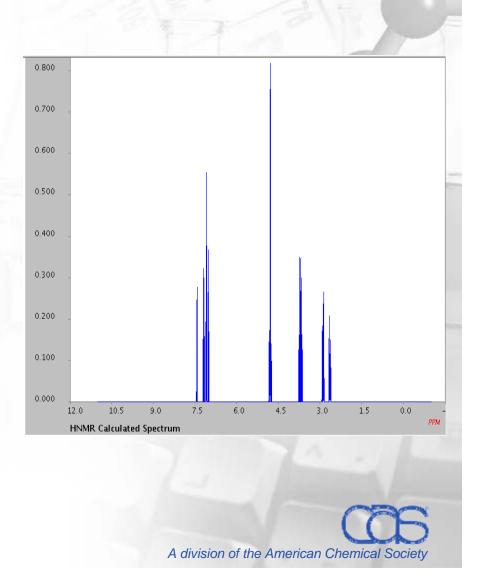
Type of information	Content and coverage	Starting points for locating chemical synthesis information
References	 >31 million references from 59 patent authorities worldwide and >10,000 major scientific journals >18 million references from MEDLINE[®] 1907 to present, plus selected pre-1907 articles and patents 	Research topic
Substances	 >51 million organic and inorganic substances >61 million sequences >2.6 billion predicted and experimental properties, spectra, and data tags, plus >29.6 million proton NMR spectra and 29.7 million predicted ¹³C-NMR spectra 1957 to present, plus selected substances back to the early 1900s Commercial source information from >1,000 suppliers for >38 million substances Regulatory information for > 270,000 substances 	 Chemical name or CAS Registry Number[®] Molecular formula Chemical structure drawing
& Reactions	 >29 million preparations, including >21 million single- and multi-step reactions 1840 to present 	 Reaction structure drawing Functional group transformation

New content added – more property data

 1.9 billion predicated and experimental properties, spectra and data tags

 23.8 million newly released predicted proton NMR spectra

 Thousands of new experimental NMR, IR, and Mass spectra as well as experimental physical properties now appear in Substance Details



Prophetic Substance

A new role for substances indexed as prophetics. It is a specific substance located in the examples of a patent that has no supporting data (e.g property data or yields)

Get Substances 🚸	
Retrieve substances for:	
O All references	eferences
For each reference, retrieve:	
O All Substances	
Substances associated with:	
Adverse Effect, including toxicity	Prophetics in Patents
🗖 Analytical Study	Preparation
🗖 Biological Study	Process
🗌 Combinatorial Study	Properties
E Formation, nonpreparative	Reactant or Reagent
Miscellaneous	🗌 Uses
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Nonspecific Nonspecific Derivatives Derivatives from from Role Patents Nonpatents Patents Nonpatents Analytical 1 1 study Biological 1 1 study Formation, 1 1 nonpreparative Miscellaneous Occurrence Preparation 1 Process 1 1 Properties Prophetic in 1 patents Reactant or 1 1 reagent 1 Uses 1 Substance Detail

7758-29-4 Sodium tripolyphosphate

antimicrobial compns. and methods to eradicate and remove fungi and bacteria from indoor and outdoor structures and materials

Other use, unclassified; Technical or engineered material use; Uses; Prophetic

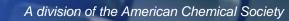
Reference Detail

New content added – New reaction information

- More than 29 million preparations
- Thousands of evaluated reactions from several Wiley reference works:
 - Encyclopedia of Reagents for Organic Synthesis (EROS)
 - Organic Syntheses
 - Organic Reactions
- Giving access to important older reactions



Reference Search



www.cas.org

Clear search interface at one page

SciFinder*		🔊 Explore 🔍 E	Explore 🔬 Explo Substances 👗 Rea	re c tions		Answer Sets Help Keep Me Posted Results History Preferences
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Informative references answer page

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By Gu, Qun; Li, Zl From Faming Zhu The medical glycyrrhizic a medical com is obtained l macroporous column with	nd/or treating cancer and cardiovascular and liver diseases iigang; Qu, Shoufeng; Guo, Xiaopeng; Liu, Yan; Mi, Changjiang; Li, Yanbin; Lin, Zhirong; Shan, Huizhen; Jin, Z inli Shenqing Gongkai Shuomingshu (2008), CN 101292986 A 20081029. Language: Chinese, Database: CAPL compn. contains 1-10 wt. part salvianolic acid A extd. from Salvia miltiorrhiza, and 1- cid or its derivs., and a suitable amt. of medical adjuvant. The content of salvianolic a on, is 50-100%, and the compd. glycyrrhizic acid or its derivs is from Glycyrrhiza ext. Salvia oy extg. S. miltiorrhiza with water or ethanol, adjusting pH value, press filtering, and adsorbent resin column with 30-70% ethanol soln. as eluent, and/or refining on Seph 50-95% ethanol soln a Reactions Citing D Full Text CO Link	LUS -20 wt. part acid A in the anolic acid A purifying on	Sasaki Kenichi Ishikawa Masaaki Kestell Philip Paxton James W Waxman D J	
and the second	n of water soluble stilbene derivatives as anticancer drugs.		Zhou Shufeng	

-Get related information for particular or all references

-Analyses are performed automatically for getting more ideas of answer set

A CAplus record (1)

SciFinder®		Explore References	Explore Substances	Explore Reactions	The second	Answer Sets Help eep Me Posted Results History Preferei	0000
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mobile phase. The medical capsule, micropill, dripping iver injury, liver fibrosis, ne Patent Information	pill, oral soln., injec	vascular and cerebrova		Date		2008:1322210	

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A CAplus record (2)

Indexing

Pharmaceuticals (Section 63-6) 🚸

Section cross-reference(s): 1

Concepts 🚸

Porous materials

adsorbents; pharmaceutical compn. contg. salvianolic acid A and glycyrrhizic acid or its derivs. for preventing and/or treating cancer and cardiovascular and liver diseases

Cardiovascular agents

Cytoprotective agents

cardioprotective agents; pharmaceutical compn. contg. salvianolic acid A and glycyrrhizic acid or its derivs. for preventing and/or treating cancer and cardiovascular and liver diseases

Liver, disease

fibrosis; pharmaceutical compn. contg. salvianolic acid A and glycyrrhizic acid or its derivs. for preventing and/or treating cancer and cardiovascular and liver diseases

Freeze-dried drug delivery Pharmaceutical injections systems

Substances 🚸

471-53-4P Glycyrrhetinic acid 1405-86-3P Glycyrrhizic acid 96574-01-5P Salvianolic acid A

pharmaceutical compn. contg. salvianol glycyrrhizic acid or its derivs. for prever cancer and cardiovascular and liver dise

Analyte; Pharmacological activity; Purifi Therapeutic use; Analytical study; Biolo Preparation; Uses

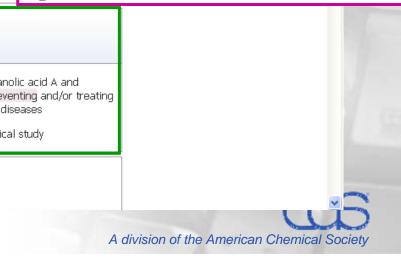
542-78-9 Malondialdehyde 9000-86-6 ALT 9000-97-9 AST

pharmaceutical compn. contg. salvianolic acid A and glycyrrhizic acid or its derivs. for preventing and/or treating cancer and cardiovascular and liver diseases

Biological study, unclassified; Biological study

64-17-5 Ethanol, uses 67-63-0 Isopropanol, uses 71-36-3 n-Butanol, uses

- CAS scientists index for novel concepts and substances
- Concepts heading with subheading for detailed information
- Index terms are linked for faster exploring
- CAS registry number is indexed for substance with specific role



Analyze the results by different ways

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for 12 h to		5-[2-(3,5-dimet	hoxyphenyl)vinyl]-	-(2-methoxyphenyl]car				Drug Delivery Syste	ems 161	
🕇 Substance:	🕯 🛦 Reactions 💕 C	iting <mark>D</mark> Full Tex	rt GO Link					Metabolism	147	
- 3 Method for	extraction of	ellagic acid co	ompounds from	Chinese medicine E	uphorbia and app	ication in		Humans	138	

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Keep selected records and analysis display

	Answer Sets Helj Keep Me Posted Results Hist Pre	-21
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preventing and/or treating cancer and cardiovascular and liver diseases By Gu, Qun; Li, Zhigang; Qu, Shoufeng; Guo, Xiaopeng; Liu, Yan; Mi, Changjiang; Li, Yanbin; Lin, Zhirong; Shan, Huizhen; Jin, Zhigang From Faming Zhuanli Shenging Gongkai Shuomingshu (2008), CN 101292986 A 20081029, Language: Chinese, Database; CAPLUS	Antitumor agents	569
The medical compn. contains 1-10 wt. part salvianolic acid A extd. from Salvia miltiorrhiza, and 1-20 wt. part	Liver, neoplasm	363
glycyrrhizic acid or its derivs., and a suitable amt. of medical adjuvant. The content of salvianolic acid A in the medical compn. is 50-100%, and the compd. glycyrrhizic acid or its derivs is from Glycyrrhiza ext. Salvianolic acid A is obtained by extg. S. miltiorrhiza with water or ethanol, adjusting pH value, press filtering, and purifying on	Human	283
keep/Remove selected records	ver	166
	arcinoma	158
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-Save (on CAS server, up to 20,000 answers per answer set)	itestine, neoplasm	128
-Print answers	eoplasm	124
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Categorize helps to refine to specific index terms

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From PCT 1	Genetics & protein chemistry > eung Bum; Cho, Myung Haing; Lee, Hy Int. Appl. (2008), WO 2008117918 A1 esent invention relates to a fluc	vang Yeon; Park, Jong Min . 20081002. Language: English, Data		and usa	Refine	Cancel	

Refine the answer sets to particular interest

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Combine answer sets for references, substances and reactions

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Keep me posted for references

References Get Substances Get Reactions Get Citing Get Citing Get Citing Analysis Refine 1227 References 0 Selected Keep Selected Remove Duplicates Save Print Export Select All Deselect All Sort by: Accession Number Image: Composition containing salvianolic acid A and glycyrrhizic acid or its derivatives for preventing and/or treating cancer and cardiovascular and liver diseases Image: Composition containing salvianolic acid A and glycyrrhizic acid or its derivatives for preventing and/or treating cancer and cardiovascular and liver diseases Save Waxman David J Image: During Composition containing salvianolic acid A and glycyrrhizic acid or its derivatives for preventing and/or treating complex showingshu (2008), CN 101292986 A 20081029. Language: Chinese, Database: CAPLUS Waxman David J The medical compn. contain 1-1 glycyrrhizic acid or its derivs, and medical compn. is 50-100%, and the sobtained by extg. S. militorrhiz macroprorus adsorbent resin colu column with 50-95% ethanol sol Title: * * Required * Substances Reactions Citing Description: * Create Keep Me Posted Profile * Explore references by research topic: anticancer 2. Preparation of water soluble s By Lee, Ruey-Hmi; Simori, Daniel From PcT Int. Apl. (2008), W0 2008013127 Title compds. [1; WS = H20-sol. (substituted) alky, alkoxy], were prever WS = H] in dioxane was reated socyanate residue. The latter i	ncer drug" and s	th PLUS	Candidates Selected: 1227 references were fo "liver" closely associated Answer set 4 created wi 961 answers from CAI 266 answers from ME	Explore References Substances er drug for liver" > references (1227) >	ا ا Sign Out	Welcome Windy Wu 1 Create Keep Me Posted Re
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Preventing and/or treating cancer and cardiovascular and liver diseases By Gu, Qur; Li, Zhigang; Qu, Shoufeng; Guo, Xiaopeng; Liu, Yan; Mi, Changjiang; Li, Yanbin; Lin, Zhirong; Shan, Huizhen; Jin, Zhigang Sasaki Kenichi The medical compon. contains 1-11 glycyrrhizic acid or its derivs., and medical compon. is 50-100%, and the software soluble and the software soluble solution with 50-95% ethanol soln * Required * Substances * Reactions % Citing D * Substances * Reactions * Citing * anticancer * Substances * Reactions * Citing * Appl. (2008), WO 200813132 * Title compds. [1; WS = H2O-sol. (substituted) alk(), alkoxy], were pr WS = H] in dioxane was treated isocyanate residue. The latter in d for 12 h to give 45% (Z)-[5-[2-(G * Citing C	▼	3 4 5 6 62 Author Name	1 2	mber 🔽	ct All Sort by: Accession N	Select All Deselect A
By Gu, Qun; Li, Zhigang; Qu, Shoufeng; Guo, Xiaopeng; Liu, Yan; Mi, Changjiang; Li, Yanbin; Lin, Zhirong; Shan, Huizhen; Jin, Zhigang Sasaki Kenichi From Faming Zhuanil Shenqing Gongkai Shuomingshu (2008), CN 101292986 A 20081029, Language: Chinese, Database: CAPLUS Sasaki Kenichi The medical compn. contains 1-11 glycymrhizic acid or its derivs., and the solution of the derivs. Create Keep Me Posted Profile Image: Chinese, Database: CAPLUS Title: * anticancer Title: * Title: * Explore references by research topic: anticancer drug" and "line associated with one another. Substances Reev.Min; Simoni, Daniele By Lee, Ruey-Min; Simoni, Daniele Explore references which contain the two concepts "anticancer drug" and "line associated with one another. WS = H] in dioxane was treated isocyanate residue. The latter in d		es for Waxman David J				
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Structure search



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Structure Drawing Tools

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Structure searching with SSM - If you have the SciFinder Substructure Module (SSM), six additional drawing tools are available.

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Structure search java plug-in

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A substance record (1)

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CAS Registry Number: 43	1994-17-6				0,							
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A substance record (2)

				X. The
H Donors	1		(2)	
H Donor/Acceptor Sum	5		(2)	
logP	1.162±0.409	Temp: 25 °C	(2)	
Molecular Weight	230.26		(2)	
Spectra Properties	Value	Conditions	Notes Top	
Proton NMR Spectrum	<u>See spectrum</u>		(3)	
Structure-related Propertie				
Polar Surface Area				Nucleus
Thermal Properties	1.40 _			1H
Boiling Point				Standard
Enthalpy of Vaporization	1.20			Tetramethysilane (75-76-3)
Flash Point				Tevanievijsilarie (73-70-3)
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Get reaction information with detailed condition

Substance De	etail Get Get Regulatory Information	
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Bioconcentration		
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Bioconcentration	Simple synthesis, structure and ab initio study of 1,4-benzodiazepine-2,5-diones By Jaddi, Khosrow et al	
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Structure search (New Enhancements)



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Structure search java plug-in

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Structure search result

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HC O Ph B R O O	Br	CH ₂ -C-Ph	Substance Role Uses Reactant or reagent
Absolute stereochemistry. C21 H22 N2 O5	Automatic analysis:		al study
1H-[1,4]Oxazino[3,4-c][1,4] benzodiazepine-6,12(11H,12aH 3,4-dihydro-1-(hydroxymethyl)- methoxy-11-(phenylmethyl)-, (1	- Substance roles, eleant availability and comr		Full Analysis
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A substance record (1)

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CAS Registry Number: 41	004-17-6			0		7		
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A substance record (2)

H Donors	1		(2)	
H Donor/Acceptor Sum	5		(2)	
logP	1.162±0.409	Temp: 25 °C	(2)	
Molecular Weight	230.26		(2)	
Spectra Properties	Value	Conditions	Notes Top	
Proton NMR Spectrum	<u>See spectrum</u>		(3)	
Structure-related Propertie				
Polar Surface Area				Nucleus
Thermal Properties	1.40 _			1H
Boiling Point				
Enthalpy of Vaporization	1.20			Standard
Flash Point				Tetramethysilane (75-76-3)
(2) Calculated using Advanced ((3) Predicted NMR data calculat ACD/Labs)				Temperature 25 degC Source
Experimental Properties:	0.80 .			Predicted NMR data calculate
Spectra Properties Carbon-13 NMR Spectrum IR Absorption Spectrum	0.60 .			using Advanced Chemistry Development, Inc. (ACD/Labs Software v9.07 (© 2007-200 ACD/Labs)
Mass Spectrum Proton NMR Spectrum	0.40 .			
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Get reaction information with detailed condition

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Bioconcentration Bioconcentration Bioconcentration	Simple synthesis, structure and ab initio study of 1,4-benzodiazepine-2,5-diones By Jadidi, Khosrow et al From Journal of Molecular Structure, 692(1-3), 37-42; 2004	
Bioconcentration Bioconcentration	2. Reaction Detail GO Link	×

Export supplier information to excel table

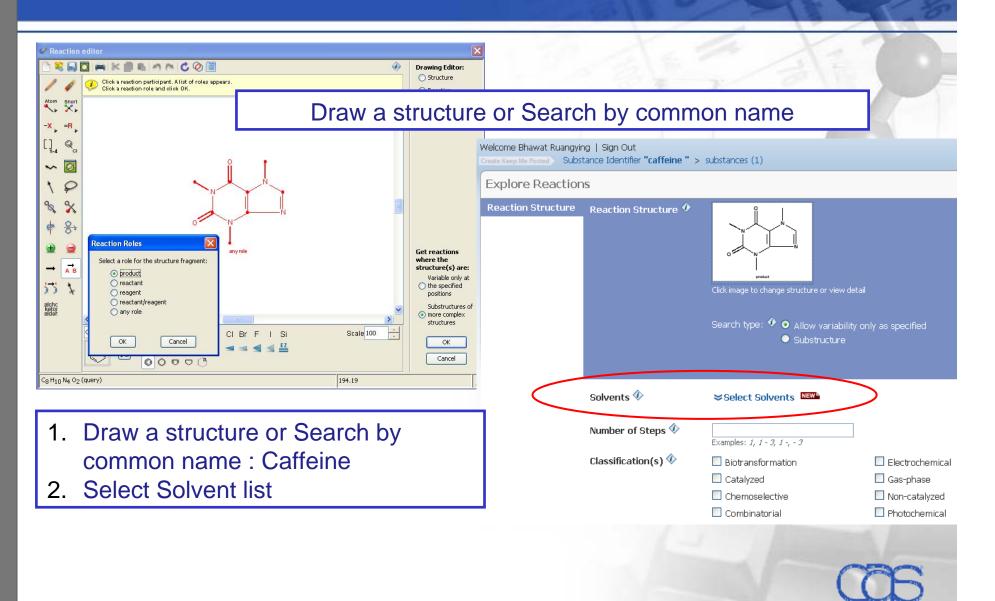
1	SciFind	er*	Explore References Sub		Kee	Answer Sets p Me Posted Results	Help History Preferences
elco	ome Windy Wu	u Sign Out				-1200	
		Chemical Structure substructur	e > substances (1314) > 41994-	-17-6 > commercial source	es (6)		
Col	mmercia	A1 -	fx				
	mmercial S		B	С	D	E	
	ect All Dese	1 SciFinder®					
IL.IL		2 CAS Registry Number: 41994-17	7-6				- swer set
	1. AsInEx AsInEx, 10	ОН					
	Order Nun						1
	41994-17-						
	GOLILIK	N N					/1
	2. Aurora Aurora Fin						1
		3 0					
	fair an an it also	4 Chemical Name	Catalog Name	Company Name	Street Address	City	a j
	GO Link	Pyrido[2,1-c][1,4]benzodiazepine-					1
	3. Interch	6,12(5H,6aH)-dione, 7,8,9,10- 5 tetrahydro-	AsInEx Express Platinum Collection	AsinEx	5 Gabrichevskogo St. Bldg 8	Moscow	uct
	Interchim, Order Nun	Pyrido[2,1-c][1,4]benzodiazepine-					1
	41994-17-	6,12(5H,6aH)-dione, 7,8,9,10- 6 tetrahydro-	Aurora Screening Library	Aurora Fine Chemicals LLC	7929 Silverton Ave. Suite 609	San Diego	
	GO Link -	Pyrido[2,1-c][1,4]benzodiazepine-			Salle 005	San Diego	1
	4. Ryan S		Aurora Screening Library	Aurora Fine Chemicals Ltd	Reininghausstrasse 49	Graz	
	Ryan Scier Order Nun	Pyrido[2,1-c][1,4]benzodiazepine- 6,12(5H,6aH)-dione, 7,8,9,10-			211 bis Av J.F. Kennedy		
	41994-17-	8 tetrahydro-	Interchim Intermediates	Interchim	BP 1140	Montlucon	
	GO Link	Pyrido[2,1-c][1,4]benzodiazepine-					
	5. Scienti	6 12/5H 6aH)-dione 7 8 9 10- ◀ ◀ ▶ ₦ \ Tips \ <u>41994-17-6</u>					>
	Scientific Ex	change, Inc., 4 Jun 2008					_

Summary of Scifinder Web

- Provide quick access and user friendly interface to search for scientific information
- New features that are tailor made for the needs of researchers
- Enhanced content for properties, spectra, registration, reaction information and etc
- Personalization features (keep me posted and save as)



Explore Reaction (Ex. Caffeine : Step 1)



Select Solvent Limiter (Step 2)

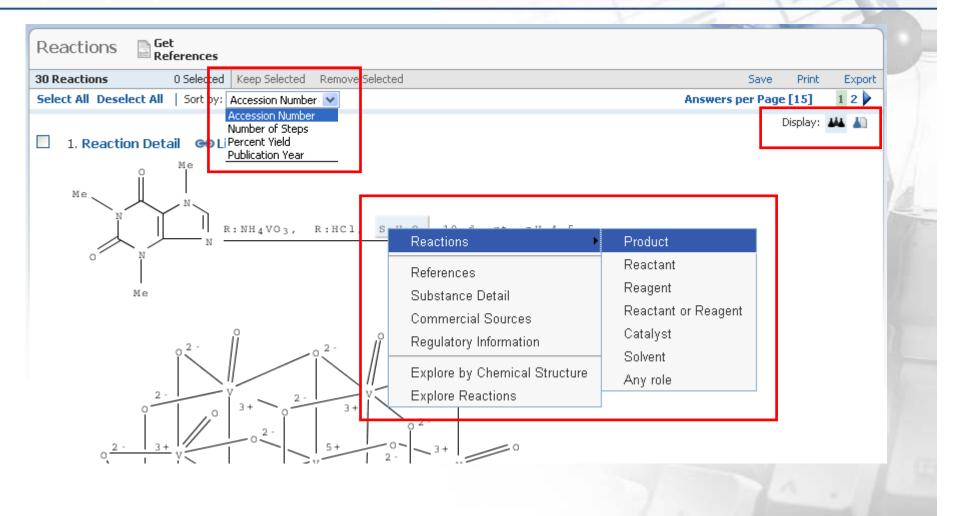
Focus your reaction results by specifying one or more solvents.

Sort by Solvent Hierarchy

Solvents 🚸

 Close ■ ■ Sort by Solvent List ≈Close NEW♪ Solvent Hierarchy [View solvent list] Solvent List O Selected Select All Deselect All [View solvent hierarchy] 🖃 🔲 Ionic liauids 1 Selected Select All Deselect All 🛄 valeronitrile 🗄 📃 Imidazolium derivatives Vinyl acetate Draw a structure or 1 庙 📃 Nonimidazolium derivatives Vinyl butyrate Vinyl propionate Search by common name 🖃 🔲 Nonpolar solvents ✓ Water 🗄 📃 Aliphatic compounds : Caffeine Water-170 🗄 📃 Aromatic compounds Water-180 2. Select Solvent by Solvent 🗄 🗌 Silanes Water-d Hierarchy: Go to SCF Water-d2 Polar solvents Water-d2-180 category then select 🖻 🔲 Polar solvents, aprotic Water-t "Water" 🖻 🔲 Polar solvents, protic Water-t2 Xvlene 🖭 📃 Supercritical fluids Xylene-d10 cis-1-Ethoxypropene **U**Next Find: Find: hemical Society

Reaction Answer Set Sort/ Solvent Exploring (Step 3)



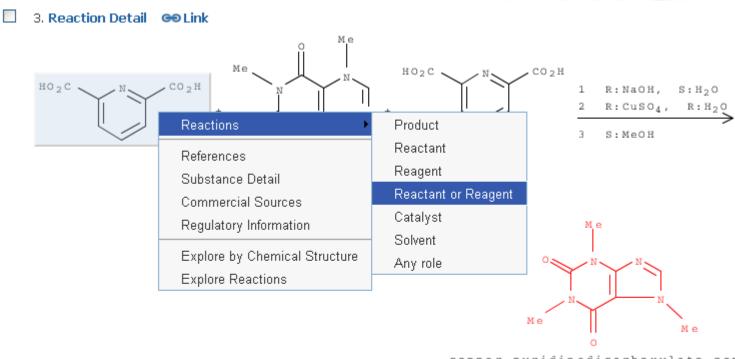
Analyze by Solvent (Step 4)

Deactions Get	
Reactions effectives	Analysis Refine
30 Reactions 0 Selected Keep Selected Remove Selected	Save Print Export Analyze by: 🏈
Select All Deselect All Sort by: Accession Number 💌	Answers per Page [15] 1 2 Catalyst

Export Feature (Step 5)

Reactions Get References	Export 🚸	
C References C Reactions C Selected Keep Selected Remove Select All Deselect All Sort by: Accession Number C 1. Reaction Detail GO Link	Export:	* Required ave Print Export Page [15] 1 2 Display:
Ne N N N N N N N N N N N N N N N N N N	File Type: Answer Key eXchange (*.akx) Answer Key eXchange (*.akx) Portable Document Format (*.pdf) Rich Text Format (*.rtf)	
0^{2} 0^{2	History: product Limiters 1 solvent • Water Any source	
	Expor	

Quick Search from reaction result set (Step 6)



copper pyridinedicarboxylato complex

```
NOTE: Reactants: 2, Reagents: 4, Solvents: 2,
Steps: 3, Stages: 3
```

Copper (II) pyridine-2,6-dicarboxylates. Coordination and distortion isomers of [Cu(pydca)(H2O)2] By Koman, M. et al

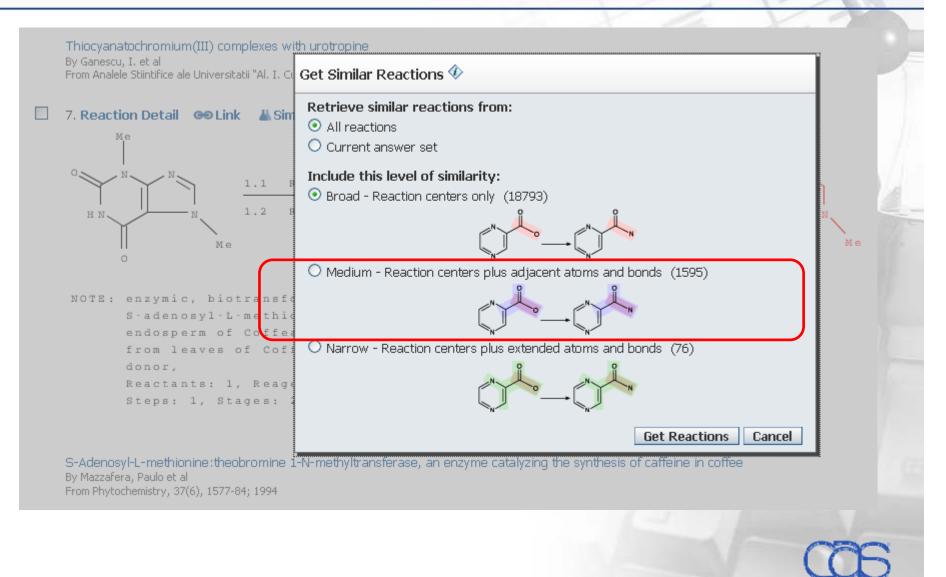
From Polish Journal of Chemistry, 75(7), 957-964; 2001

Get Similar Reactions (Step 7.1)

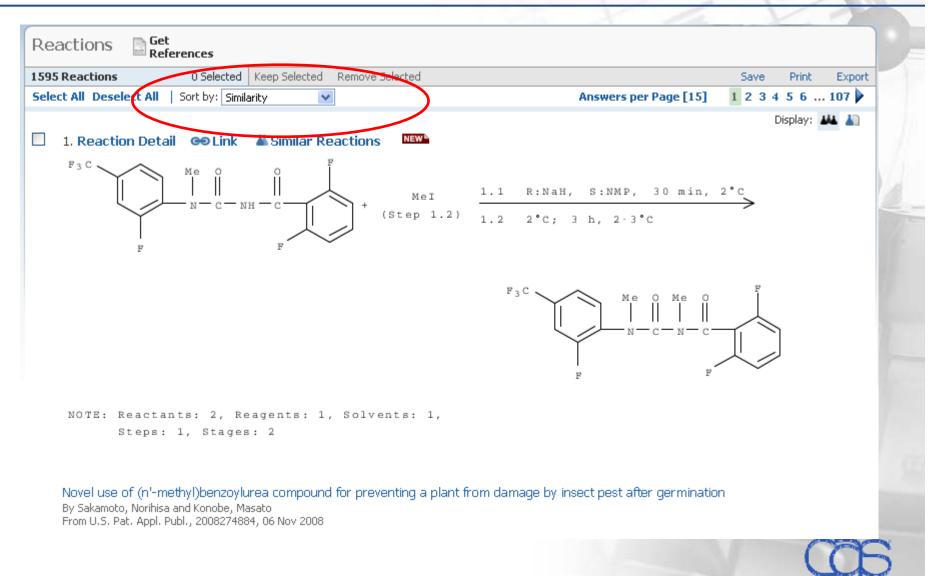
Find reactions that undergo similar transformations for all single step reactions

Reactions 🔄 Get References				Anal	ysis	Refine	
30 Reactions 1 Selected Keep Selected Remove Selected	Save	Print	Export	Analyz	e by: 🚸		
12 reactions with Number of Steps 1 are displayed Keep Analysis Clear Analysis				Numbe	r of Steps		
Select All Deselect All Sort by: Accession Number 7. Reaction Detail Contraction Detail Contractin Detail <t< td=""><td>Answers Dis</td><td>splay:</td><td></td><td>Click bar</td><td></td><td>those reaction</td><td>5</td></t<>	Answers Dis	splay:		Click bar		those reaction	5
7. Reaction Detail Co Link L Similar Reactions				1		12	2
⁰ → ^N → ^N 1.1 R:MgCl ₂ , C:155215-94-4, S:H ₂ O, 30 min, 28°C	N			2			3
H N N 1.2 R:HCl, S:H2O, 28°C	N			3			2
0 Me 0	i	Me		4			2
NOTE: enzymic, biotransformation, kinetic study, purified				5			2
S-adenosyl-L-methionine:theobromine 1-N-methyltransferase from developing endosperm of Coffea arabica used, alternate reaction with purified enzyme				6			2
from leaves of Coffea arabica shown, S-asenosy-L-methionine used as methy donor,	71			7			2
Reactants: 1, Reagents: 2, Catalysts: 1, Solvents: 1, Steps: 1, Stages: 2				8			1
				9			1
S-Adenosyl-L-methionine:theobromine 1-N-methyltransferase, an enzyme catalyzing the synthesis of caffeine in coffee By Mazzafera, Paulo et al From Phytochemistry, 37(6), 1577-84; 1994				10			1
					1	T	-

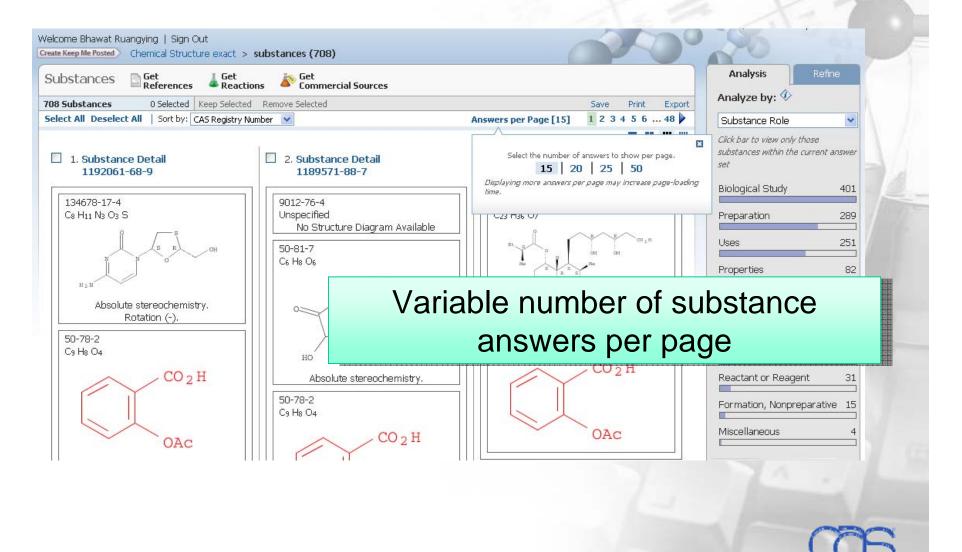
Get Similar Reactions (Step 7.2)



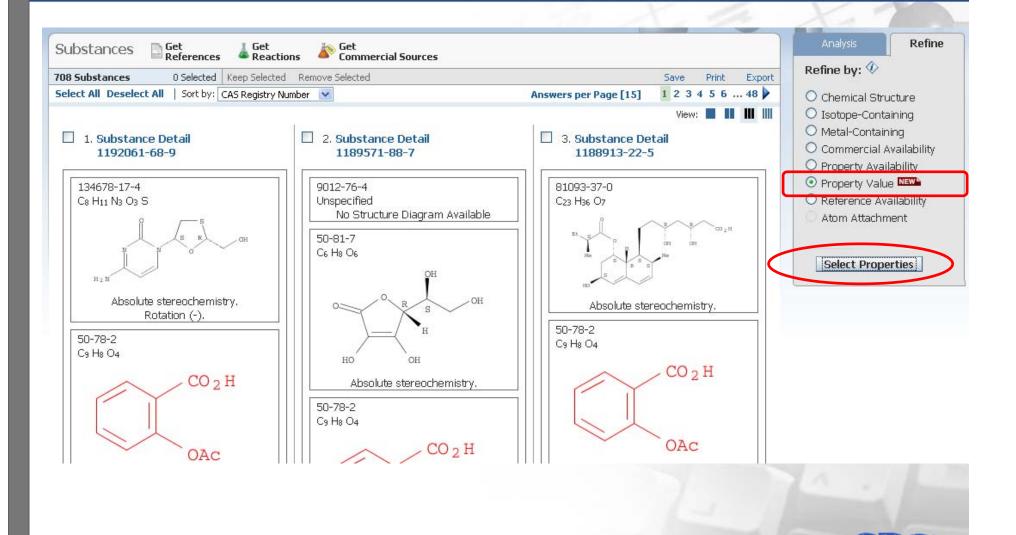
Similarity Matches



Explore Substance (Ex. Aspirin, Step 1)



Refine by Property Value (Step 2.1)



Refine by Property Value (Step 2.2)

Refine by Property Value 🚸

1. Select one or more properties. Click each property to display value options.

2. Specify values and limits.

alue options.				
Properties - 1 selected		Values - Experimental	Boiling Point	
Experimental	<u>^</u>	Specify range (degrees	C):	
✓ Boiling Point		150 to	200	
Melting Point		Min: -273.0	Max:	
Predicted			Max;	
H Acceptors		Pressure (Torr):		
H Donors		to		
🗖 Molecular Weight		Min: 0.0	Max:	
🗖 logP				
Freely Rotatable Bonds				
Bioconcentration Factor				and the second se
Boiling Point				
Density				
Enthalpy of Vaporization				
Flash Point				
H Acceptor/Donor Sum				
Koc				
logD				
Mass Intrinsic Solubility	_			
Mass Solubility				
Molar Intrinsic Solubility				and the second se
Molar Solubility	~	Reset		~
 Include substances with r	no value for the s		Re	fine Cancel
			A division of	f the American Chemical Socie

Export Substance Property Data (Step 3.1)

1 Substance 0 Selected Keep Selected Rem		Save Print	Export
Select All Deselect All Sort by: CAS Registry Number		Answers per P	age [15]
1. Substance Detail 50-78-2	Export 🚸	View:	
CO ₂ H	* Require Export: • All answers • Only selected answers	ed	
OAc	File Name: *		
C9 H8 O4 Benzoic acid, 2-(acetyloxy)-	Microsoft Excel Worksheet (*.xls) Properties to Export: All property values Only experimental property values		
 ~25,272 References AReactions Commercial Sources 	 Only predicted property values Select property values Continue Cancel 	1	
mRegulatory Information		<u></u>	

Export Substance Property Data (Step 3.2)

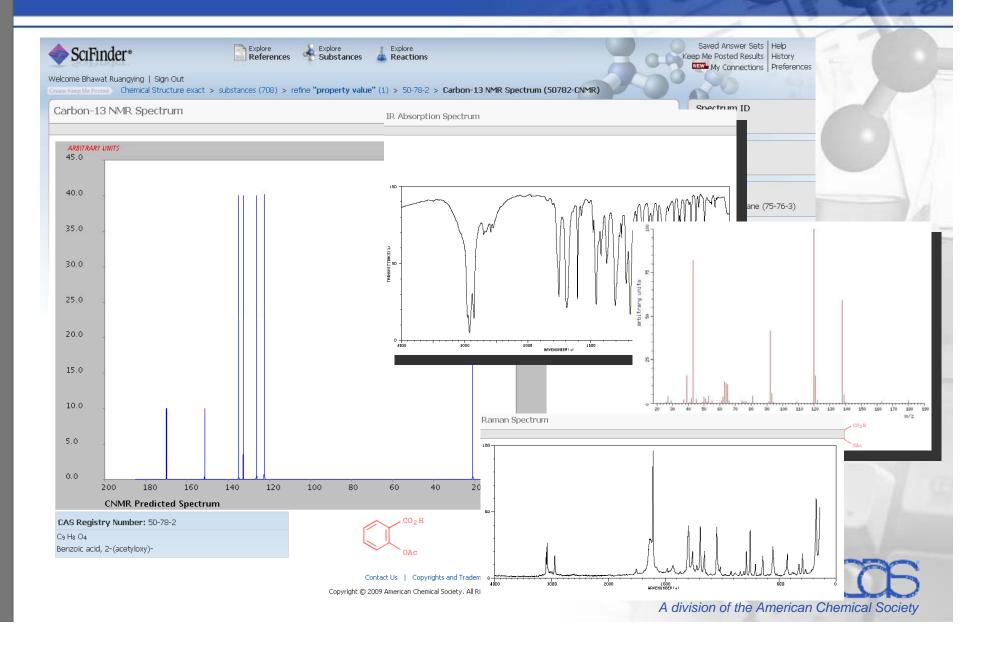
		E	Export Selected P	roperty Values	♦			
			Properties to Expo	rt:				
			Select: All All	Experimental A	II Predicted			Deselect All
			Experim	nental		Predic	ted	
SciFinder°			Boiling Point Density Electric Condu Electric Condu Electric Resis Electric Resis	uctivity tance tivity	 ✓ Boiling Po Density Enthalpy (✓ Flash Poir ✓ Freely Ro 	of Vaporization nt tatable Bonds	Mass Sol Molar Int Molar So Molar Vo	rinsic Solubility lubility lume
CAS Registry Number	CAS Index Name	Туре	Glass Transit	ion Temperature ment	H Accepto	or/Donor Sum ors	🔲 Moleculai	r Weight
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Median Letha	l Dose	H Donors		Polar Sur	
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	📃 Optical Rotati	ory Power				essui e
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Refractive Inc					
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental		-				
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	-					Export Cancel
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Density	Density		1.4 g/cm3		
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Density	Density		1.396 g/cm3		
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Biological	Median L	ethal Dose(LD50)	1216 mg/kg		
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Biological	Median L	ethal Dose(LD50)	1100 mg/kg		
50-78-2	Benzoic acid, 2-(acetyloxy)-	experimental	Biological	Median L	ethal Dose(LD50)	880 mg/kg		CCS

Carbon-13 NMR Spectrum (new)

Molar Volume	139.5±3.0 cm3/mol	Temp: 20 °C Press: 760 Torr	(80)	
Lipinski and Related Properties	Value	Conditions	Notes	Тор
Freely Rotatable Bonds	3		(80)	
H Acceptors	4		(80)	
H Donors	1		(80)	
H Donor/Acceptor Sum	5		(80)	
logP	1.190±0.226	Temp: 25 °C	(80)	
Molecular Weight	180.16		(80)	
Spectra Properties	Value	Conditions	Notes	Тор
Carbon-13 NMR Spectrum NEW	See spectrum		(81)	
Proton NMR Spectrum	See spectrum		(81)	
Structure-related Properties	Value	Conditions	Notes	Тор
Polar Surface Area	63.6 A2		(80)	
Thermal Properties	Value	Conditions	Notes	Тор
Boiling Point	321.4±25.0 °C	Press: 760 Torr	(80)	
Enthalpy of Vaporization	59.45±3.0 kJ/mol	Press: 760 Torr	(80)	
Flash Point	131.1±16.7 °C		(80)	

(80) Calculated using Advanced Chemistry Development (ACD/Labs) Software V8.14 for Solaris (© 1994-2009 ACD/Labs) (81) Predicted NMR data calculated using Advanced Chemistry Development. Inc. (ACD/Labs) Software V9.07 (© 1994-2009 ACD/Labs)

C-13 NMR and other spectra



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- New features that are tailor made for the needs of researchers
- Enhanced content for properties, spectra, registration, reaction information and etc
- Personalization features (keep me posted and save as)



Thank you

Email: pootorn@book.co.th OR : bhawatr@gmail.com



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