

김미리

신원데이터넷

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SciFinder® 이용교육

목차

➤ PowerPoint Presentation

- ✓ CAS 및 SciFinder 소개
- ✓ 사용방법
 - Reference Searching
 - Substance Searching
 - Reactions Searching
 - Other

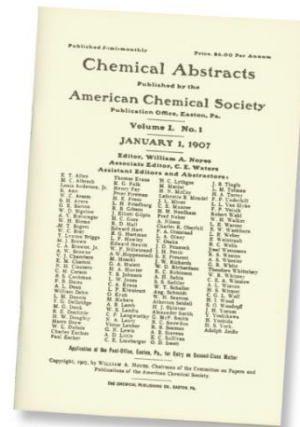
➤ Demonstration

➤ Q&A



CAS (Chemical Abstract Service)

- 과학자료와 특허 검색 속 화학정보를 이끌어나가는 CAS
- 1907년 설립되어, 전세계 화학관련 문헌 수집, 분석
- **Chemical Abstracts™** 출판 시작



- 50여 개의 다양한 언어 사용 가능한
수백 명의 과학자 포함한 약 1,400명의 직원 근무
- **10,000종 이상의 과학 저널과 63개 특허기관의 특허 색인 및 분석**
- **고객:** 전세계 2,300개 대학교, 상위 500개 포춘 기업, 주요 특허청

SciFinder 구축을 위해 전 세계에 공개된 연구자료를 분석

4천3백만+
문헌정보

U.S. National Library of
Medicine의 MEDLINE®
database에 포함된
2천오백만 문헌정보
액세스가 추가

63

특허기관의 특허
다른 과학정보 제공자
보다 25% 많은 특허 정보

6천6백만+
protein과 nucleic acid
sequences

1억9백만+
유기, 무기 물질
smallest molecules
최대콜렉션



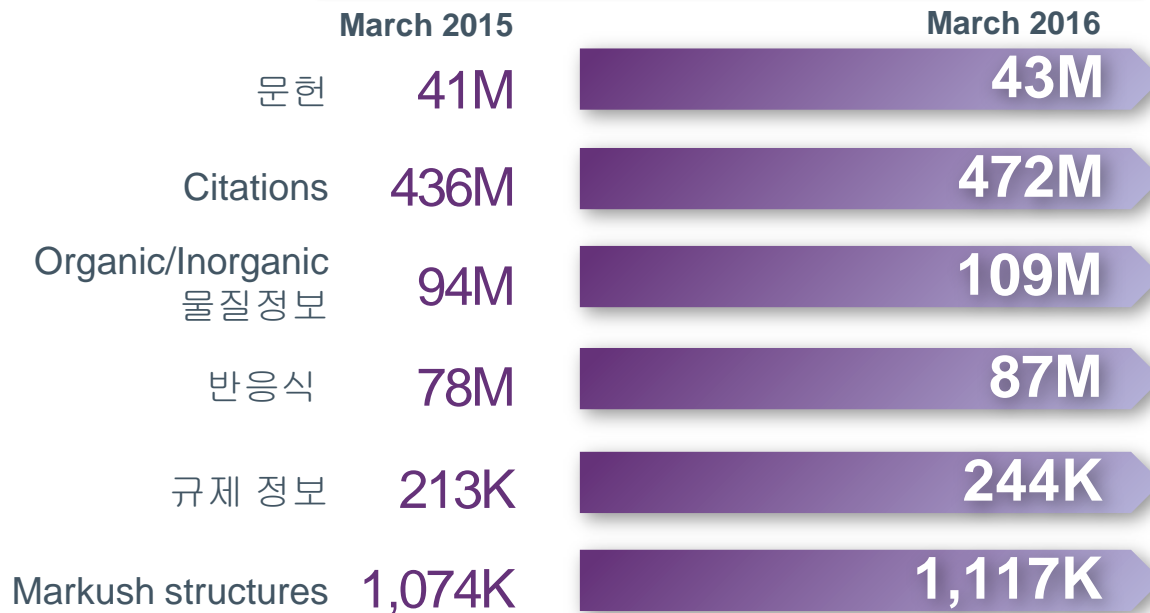
전 세계에서 공개된 권위
있는 화학 자료에 접근할
수 있는 Tool.

Data as of March 2016

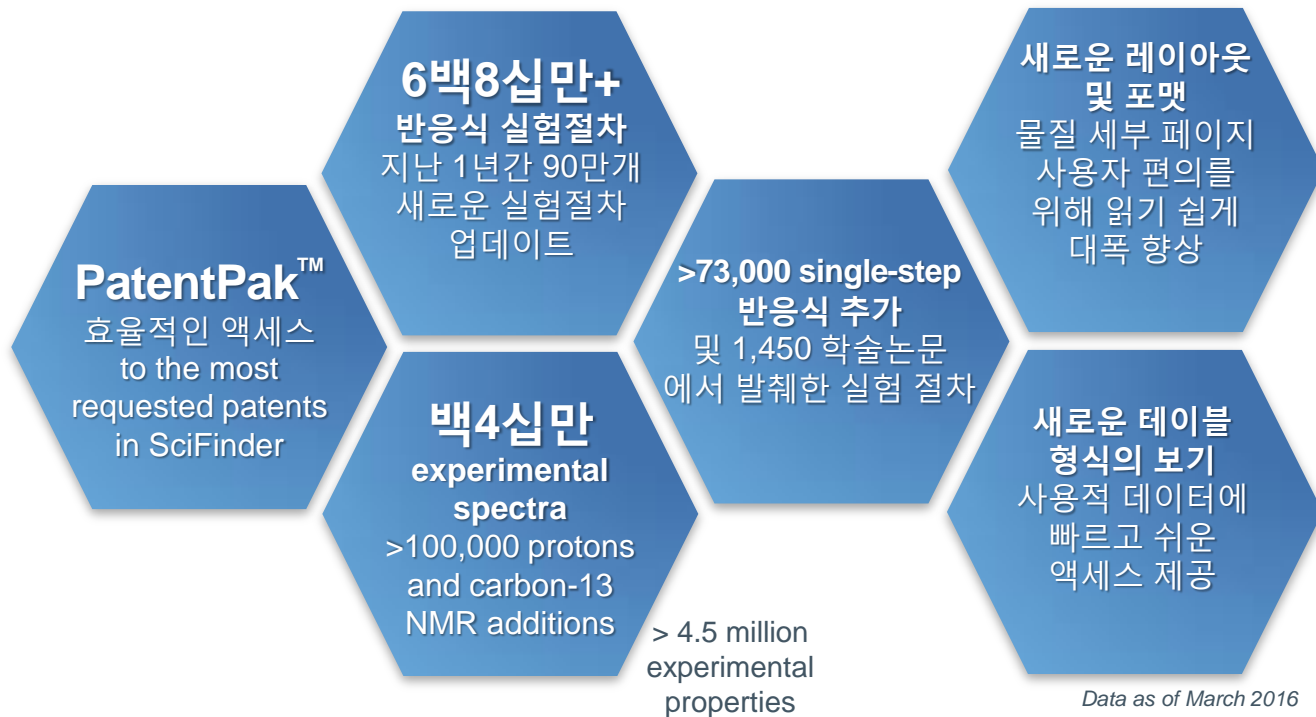
매년 수 백만 건 이상의 콘텐츠 추가



1 Year Growth



SciFinder 를 통한 시간 절약



효율적인 일의 분담 SciFinder

최신분야
검색 및
경쟁사 확인

빠른 검색 및
문서 분석
(research topic,
structure,
reaction)

동료 및 협력
연구원과
아이디어 공유

The screenshot shows the SciFinder interface with the following elements:

- Top Bar:** CAS Solutions, SCIFINDER A CAS SOLUTION, Preferences | SciFinder Help, Sign Out.
- Navigation:** Explore, Saved Searches, SciPlanner, Save, Print, Export.
- Alerts:** Keep Me Posted "Hydrogenation of Alkenes"[Apr 16, 2016] (3).
- Actions:** Get Substances, Get Reactions, Get Related Citations, Tools, Create Keep Me Posted Alert, Send to SciPlanner.
- Search Results:**
 - Sort by: Accession Number
 - 0 of 3 References Selected
 - 1. **Ph(i-Pr)SiH₂: An Exceptional Reductant for Metal-Catalyzed Hydrogen Atom Transfers**
 - By Obradors, Carla; Martinez, Ruben M.; Shenvi, Ryan A.
 - From Journal of the American Chemical Society (2016), 138(14), 4962-4971. | Language: English, Database: CAPLUS
 - Chemical reaction scheme showing a metal complex [M] or [Fe] reacting with an alkene and a silane ligand.
 - Key findings:
 - Catalyst loading to 0.05 mol%
 - Diverse reaction solvents
 - Reaction rates increased
 - Greater FG tolerance
 - 2. **Ph(i-Pr)SiH₂: An Exceptional Reductant for Metal-Catalyzed Hydrogen Atom Transfers**
 - By Obradors Carla; Martinez Ruben M; Shenvi Ryan A
 - From Journal of the American Chemical Society (2016), 138(14), 4962-71. | Language: English, Database: MEDLINE
 - Text description of the discovery and its implications for metal-catalyzed radical hydrofunctionalization reactions.

전 세계적을 SciFinder를 사용하는 기업 및 학교



Sources:

- *The Academic Ranking of World Universities*
- *Chemical & Engineering News*
- *Genetic Engineering & Biotechnology News*
- *PharmaExec.com*

사용 방법

Reference Search

arXiv.org

Aldrichimica ACTA

ACS
chemical
biology



 BEILSTEIN JOURNAL
OF ORGANIC CHEMISTRY



J | A | C | S
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY



THE JOURNAL OF
PHYSICAL CHEMISTRY
Letters

ACS Chemical
Neuroscience

 **SCIFINDER**[®]
A CAS SOLUTION

문헌 검색 첫 화면

The screenshot displays the SciFinder web interface. At the top, there are navigation tabs: 'Explore', 'Saved Searches', and 'SciPlanner'. Below the tabs, the current search topic is 'Research Topic "silver nanoparticles and nanow..."'.

On the left side, there is a sidebar menu with three main categories: 'REFERENCES', 'SUBSTANCES', and 'REACTIONS'. The 'REFERENCES' category is expanded, showing a list of search options: 'Research Topic', 'Author Name', 'Company Name', 'Document Identifier', 'Journal', 'Patent', and 'Tags'. A red box labeled '1' highlights this list.

The main content area is titled 'REFERENCES: RESEARCH TOPIC'. It features a search input field containing the text 'silver nanoparticles and nanowires', which is highlighted with a red box labeled '2'. Below the input field, there are 'Examples:' such as 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromatic compounds'. A blue 'Search' button is positioned below the examples, and a link for 'Advanced Search' is located at the bottom of the search area.

At the bottom right of the interface, there is a grey box containing two numbered instructions:

1. 문헌 검색 옵션: 키워드/저자/기관명/DOI/저널/특허
2. References - Research Topic: 키워드 검색

문헌 검색결과 화면

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Research Topic "silver nanoparticle nanowire..." > references (1176)

REFERENCES 2

Get Substances Get Reactions Get Related Citations Tools

Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine Categorize

Analyze by: Author Name

Lee Shuit Tong	24
Xia Younan	14
Sun Yugang	13
Tsukruk Vladimir V	11
Wang Hui	11
Wong Ning Bew	9
Boukherroub Rabah	8
Gunawidjaja Ray	8
He Yao	8
Wang Yang	8

Show More

Sort by: Accession Number

0 of 1176 References Selected

Page: 1 of 59

1. Copper silver bimetallic nanowire and preparation method thereof [Machine Translation].
 Quick View PatentPak
 By Sun, Jing; Wang, Xiao; Wang, Ranran; Gao, Lian; Wang, Yan
 From Faming Zhuanli Shenqing (2015), CN 104607657 A 20150513. | Language: Chinese, Database: CAPLUS
 [Machine Translation of Descriptors]. The present invention relates to a copper silver bimetallic nanowire and a prepn. method thereof. The prepn. method comprises: (1) dissolving cationic surfactant into org. reducing agent to form an org. reducing system, wherein the org. reducing agent comprises long chain alkyl amine; (2) adding copper salt capable of being dissolved in the org. reducing system and reacting with the org. reducing system and reacting with the org. reducing system to form the copper silver bimetallic nanowire.

2. Assembly of silicon nanowires...
 Quick View
 By Lin, L.; Huang, H.;
 From Applied Optics (2015), CN 104607657 A 20150513. | Language: Chinese, Database: CAPLUS
 In this work, we report the synthesis of silicon nanowires by irradiation with femtosecond laser pulses in a solution. The nanowires are parallel to the substrate and more readily produced at higher laser intensities. The nanowires are observed by transmission electron microscopy (TEM).

3. Fibers and conductive nanowires...
 Quick View

1. 문헌 간략 정보: 제목/저자/서지정보/초록
2. Analyze: 다양한 옵션으로 자동 분류
Refine: 결과 내 재 검색
3. Get Substances: 문헌 검색 결과 관련 물질정보 확인
Get Reactions: 문헌 검색 결과 관련 반응정보 확인
Get Related Citations: 문헌 검색 결과 관련 인용/ 피인용 정보 확인
Tools: 중복결과 삭제/ 검색결과 조합/ 태그입력

검색 결과 분석

REFERENCES ?

Analyze Refine **Categorize**

Analyze by: ?

Author Name ▾

Ranjan Mukesh	4
Facsko Stefan	3
Akil S	2
Bachelot R	2
Balan L	2
Barboza Flores Marcelino	2
Chen Bin	2
Hong Franklin Chau Nan	2
Hong Seung Hyun	2
Jiang Chaoyang	2

Show More

Categorize ?

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

Category Heading	Category	Index Terms	Selected Terms
All	Substances (210)	Page: 1 of 3 ▶▶ Select All Deselect All	Click 'x' to remove the category from 'Selected Terms' All > Substances (4 Terms)
Biotechnology	Topics (2)	<input checked="" type="checkbox"/> Silver 14 <input checked="" type="checkbox"/> Nanoparticles 12 <input checked="" type="checkbox"/> Nanowires 11 <input checked="" type="checkbox"/> Silver nitrate 4 <input type="checkbox"/> Ethylene glycol 3 <input type="checkbox"/> Polyvinylpyrrolidone 3 <input type="checkbox"/> Anisotropy 2 <input type="checkbox"/> Diffusion 2 <input type="checkbox"/> Electrodes 2 <input type="checkbox"/> Electron beam evaporation 2 <input type="checkbox"/> Gold 2 <input type="checkbox"/> Nanostructures 2 <input type="checkbox"/> Oxidation 2 <input type="checkbox"/> Particle shape 2 <input type="checkbox"/> Rhodamine 6G 2 <input type="checkbox"/> SERS (Raman scattering) 2	

All > Substances > 4 Index Term(s) Selected

OK Cancel

Author Name

- CAS Registry Number
- CA Section Title
- Company-Organization Database
- Document Type
- Index Term
- CA Concept Heading
- Journal Name
- Language
- Publication Year
- Supplementary Terms

- Categorize:** 관심분야를 제한하여 결과 추출
- Analyze:** 검색결과 분류
(저자명, 색인, 문서종류, 언어, 출판연도, 관련 키워드 별)

결과 내 재 검색

Analyze **Refine** Categorize

Refine by: ?

- Research Topic
- Author
- Company Name
- Document Type
- Publication Year
- Language
- Database

Research Topic

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Refine

1. **Refine:** 결과 내 재검색
(주제어, 저자명, 기관명, 문서종류, 출판연도, 언어)

Author Name

Last *

First

Middle

Company Name

Examples:

3M

DuPont

Publication Year(s)

Examples: 1995, 1995-1999, 1995-, -1995

Database

- CAPLUS
- MEDLINE

Language(s)

- Chinese
- English
- French
- German
- Italian
- Japanese
- Polish
- Russian
- Spanish

Document Type(s)

- Biography
- Book
- Clinical Trial
- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
- Patent
- Preprint
- Report
- Review

상세정보

[Explore](#)[Saved Searches](#)[SciPlanner](#)[Link](#)[Save](#)[Print](#)[Export](#)

Research Topic "silver nanoparticles and nanow..." > references (24) > Anisotropic surface enhanced R...

REFERENCE DETAIL

[Get Substances](#)[Get Related Citations](#)[Link to Other Sources](#)

4

[Send to SciPlanner](#)1 [Return](#)[Previous](#) [Next](#)

2

3. Anisotropic surface enhanced Raman scattering in nanoparticle and nanowire arrays

By: Ranjan, Mukesh; Facsco, Stefan

Silver nanoparticles and nanowires self-aligned on pre-patterned rippled substrate are presented as active surface enhanced Raman scattering (SERS) substrates. The reported inter-particle gap of 5 nm and array periodicity of 35 nm are much lower than current lithog. limits. The obsd. anisotropy in SERS and surface plasmon resonance in such arrays is attributed to different plasmonic field enhancement along and across the chains of nanoparticles not due to shape anisotropy. For nanoparticle arrays higher SERS intensity is found along the particle chain, but for nanowire arrays higher SERS intensity is found for excitation across the wires. Higher intensity across nanowire arrays supports the argument that the SERS phenomenon is due to electromagnetic field enhancement (hot-junctions) caused by localized surface plasmon resonance across the nanowires having a 35 nm gap. The effect of inter-particle gap, ordering and aspect ratio on field enhancement is demonstrated. Higher SERS intensity is obsd. in aligned elongated nanoparticles compared to aligned spherical, non-ordered nanoparticles, or aligned nanowires. Aligned silver nanowires enhance Raman scattering more strongly than aligned gold nanowires.

Indexing

Optical, Electron, and Mass Spectroscopy and Other Related Properties (Section73-3)

3

Concepts

Anisotropy
Energy level excitation
Nanoparticles
Oxidation
SERS(Raman scattering)

Elongation, mechanical
Ion bombardment
Nanowires
Polarization
Surface structure

anisotrop

Vapor de

phys.; ar
arrays

Supplem

silver nan

1. 해당 문헌의 제목, 저자명, 초록
2. 해당문헌의 추가 정보: 출처, 기관명, 언어 등
3. Substance: 문헌 내 물질 정보
4. 물질, 인용정보, 원문링크

Substances

7440-22-4 Silver, properties

anisotropic surface enhanced Raman scattering in nanoparticle and nanowire arrays

Physical, engineering or chemical process; Properties; Technical or engineered material use; Process; Uses

6G

properties

oxide, properties

enhanced Raman scattering in nanoparticle and nanowire arrays

or chemical process; Properties; Process

QUICK LINKS

0 Tags, 0 Comments

SOURCE

Nanotechnology
Volume23
Issue48
485307, 7 pp.
Journal; Online Computer
File
2012
CODEN:NNOTER
ISSN:1361-6528
DOI:10.1088/0957-
4484/23/48/485307

COMPANY/ORGANIZATION

Institute for Plasma Research
FCIPT
Gandhinagar, India

ACCESSION NUMBER

2013:1144153
CAN160:198426
CAPLUS

PUBLISHER

IOP Publishing Ltd.

LANGUAGE

English

**SCIFINDER**

A CAS SOLUTION

Link, Save, Print or Export

Explore Saved Searches SciPlanner Link Save Print Export

Research Topic "silver nanoparticles and nanow..." > references (24) > Anisotropic surface enhanced Raman scattering in nanoparticle arrays

REFERENCE DETAIL Get Substances Get Related Citations Get Full Text

Return

3. Anisotropic surface enhanced Raman scattering in nanoparticle arrays

By: Ranjan, Mukesh; Facsco, Stefan

Silver nanoparticles and nanowires self-aligned on pre-patterned rippled substrate are presented of 5 nm and array periodicity of 35 nm are much lower than current lithog. limits. The obsd. anisotropic plasmonic field enhancement along and across the chains of nanoparticles not due to shape anisotropy. Nanowire arrays higher SERS intensity is found for excitation across the wires. Higher intensity of electromagnetic field enhancement (hot-junctions) caused by localized surface plasmon resonance aspect ratio on field enhancement is demonstrated. Higher SERS intensity is obsd. in aligned elongated nanowires. Aligned silver nanowires enhance Raman scattering more strongly than aligned gold nanowires.

Indexing

Optical, Electron, and Mass Spectroscopy and Other Related Properties (Section73-3)

Concepts

Anisotropy Elongation, mechanical
Energy level excitation Ion bombardment

Export

For: * Required

Citation Manager

- Citation export format (*.ris)
- Quoted Format (*.txt)
- Tagged Format (*.txt)

Offline review

- Portable Document Format (*.pdf)
- Rich Text Format (*.rtf)
- Answer Keys (*.txt)

Saving locally

- Answer Key eXchange (*.akx)

Details:

File Name: *
Reference_04_29_2014_115908

Export Cancel

QUICK LINKS

0 Tags, 0 Comments

SOURCE

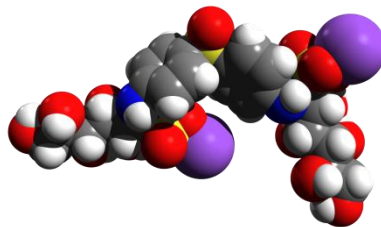
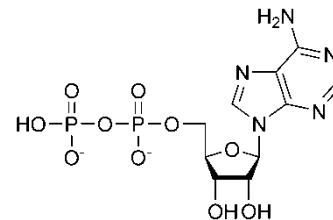
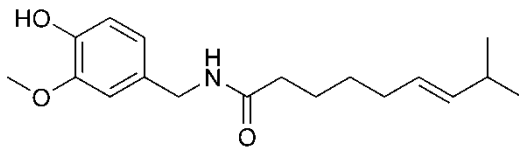
Nanotechnology
Volume23
Issue48
485307, 7 pp.
Journal; Online Computer File
2012
CODEN:NNOTER
ISSN:1361-6528
DOI:10.1088/0957-4484/23/48/485307

COMPANY/ORGANIZATION

Institute for Plasma Research
FCIPT

1. 해당화면 링크생성, 저장, 인쇄, 다운로드

Substance Search



물질 검색

The screenshot shows the SciFinder web interface. On the left, a sidebar contains a tree view with categories: REFERENCES, SUBSTANCES, and REACTIONS. The 'SUBSTANCES' category is expanded, showing sub-options: Chemical Structure, Markush, Molecular Formula, Property, and Substance Identifier. A yellow box with the number '1' is placed next to the 'SUBSTANCES' category. In the main content area, the 'Structure Editor' window is open, showing a drawing area with the text 'Click to Edit'. A yellow box with the number '2' is placed next to the 'Structure Editor' window. To the right of the drawing area, there are search options: 'Search Type' with radio buttons for 'Exact Structure', 'Substructure' (selected), and 'Similarity'. Below that, there is a 'Show' checkbox and a 'Java' dropdown menu.

1. SUBSTANCES: 물질 검색

- **Chemical Structure:** 구조식
- **Markush:** 마커시 구조
- **Molecular Formula:** 분자식
- **Property:** 물성
- **Substance Identifier:** 물질명, CAS번호

2. Structure Editor: Drawing Editor

구조식 검색: Structure Editor

Structure Editor

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

Atom Short

COOH

O—C(O)CH₃

1

Get substances that match your query using:

- Exact search
- Substructure search
- Similarity search

확인

취소

C(O)CH₃ C H O S N P Cl Br F I Si Scale 100

Cg Hg O₄ (query) 180,16





1. 검색 옵션

- **Exact search:**
똑같은 구조
- **Substructure search:**
하부 구조
- **Similarity search:**
유사 구조



물질 상세 정보

Explore ▾ Saved Searches ▾ SciPlanner Link Save Print Export

Substance Identifier "aspirin" > substances (1) > 50-78-2

SUBSTANCE DETAIL  Get References  Get Reactions  Get Commercial Sources  Send to SciPlanner

[Return](#)

CAS Registry Number 50-78-2
~35,741  ~158 

C₉H₈O₄
Benzoic acid, 2-(acetyloxy)-

Molecular Weight
180.16

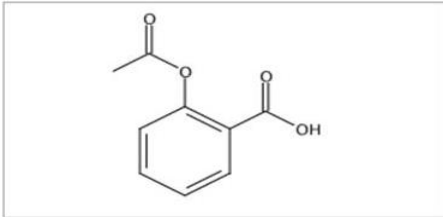
pKa (Predicted)
Value: 3.48±0.10 | Condition: Most Acidic Temp: 25 °C

Melting Point (Experimental)
Value: 135 °C

Boiling Point (Experimental)
Value: 197-200 °C | Condition: Press: 7 Torr

Density (Experimental)
Value: 1.40 g/cm³

Other Names
Rhodine (7CI)
Salicylic acid acetate (8CI)
2-(Acetyloxy)benzoic acid
2-Acetoxybenzoic acid
2-Carboxyphenyl acetate
[View more...](#)



Chemical structure of Aspirin (Acetylsalicylic acid) is shown.

1

1. Get References: 관련 문헌 정보
2. Get Reactions: 관련 반응 정보
3. Get Commercial Sources: 공급업체 정보 보기
4. Send to SciPlanner: SciPlanner 로 보내기

물질 상세 정보

1

Expand All | Collapse All

- ▶ EXPERIMENTAL PROPERTIES
- ▶ EXPERIMENTAL SPECTRA
- ▶ PREDICTED PROPERTIES
- ▶ PREDICTED SPECTRA
- ▶ REGULATORY INFORMATION
- ▶ BIOACTIVITY INDICATORS
- ▶ TARGET INDICATORS
- ▶ CAS REFERENCE ROLES
- ▶ ADDITIONAL DETAILS

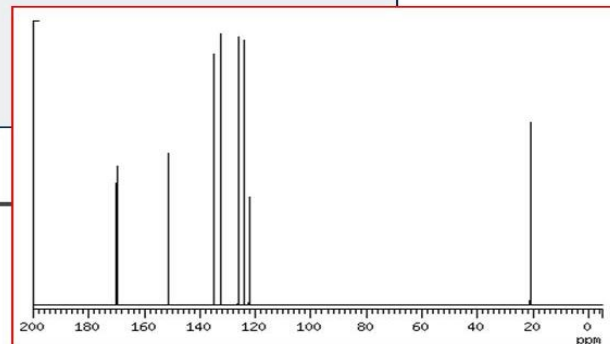
1. Experimental Properties
2. Experimental Spectra
3. Predicted Properties
4. Predicted Spectra
5. Regulatory Information
6. Bioactivity Indicators
7. Target Indicators
8. CAS Reference Roles
9. Additional Details

1,2. 실측치

3,4. 예측치

5. 규제정보

6,7. 생화학 정보



공급 업체 검색 결과

Explore Saved Searches SciPlanner

This chemical supplier information is provided on an "as is" basis. Please consult the suppliers for current information regarding pricing for any loss of profit, goodwill or any other damages arising out of the use of this information.

Substance Identifier "salicylic acid" > 1 (1) > commercial sources (211)

COMMERCIAL SOURCES

Analyze by: Commercial Source

Crescent Chemical Product List 11

Fluka 7

Ryan Scientific Intermediate and Building Block Compounds 7

Spectrum Chemicals Product List 6

Reagent World Product List 5

SIAL 5

Wako Pure Chemicals Product List 5

Acros Organics 4

Chem Service Product List 3

Commercial Source	Substance
1. 3B Scientific Corporation Product List United States	69-72-7 2-Hydroxybenzoic acid
2. 3B Scientific Corporation Product List United States	69-72-7 Salicylic acid
3. A Chemtek Product List United States	
4. AAA Chemistry Stock Product List Hong Kong	
5. AB Chem Product List Canada	
6. Abblis Chemicals Product List United States	
7. ABCR Product List Germany	

SIGMA-ALDRICH

Korea (South) Home > 55922 - Salicylic acid

55922 SIGMA
Salicylic acid
BioXtra, ≥99.0%
Synonym: 2-Hydroxybenzoic acid

CAS Number 69-72-7 Linear Formula $C_7H_6O_3$ Molecular Weight 138.12
Bellstein Registry Number 774990 EC Number 200-712-3 MDL number MFCD00002439
PubChem Substance ID 24899681

POPULAR DOCUMENTS: SPECIFICATION SHEET (PDF) | FTNMR (PDF)

구매 Safety & Documentation Protocols & Articles 2 Peer-Reviewed Papers 115

속성
Related Categories: Acids, Acids & Bases, Aromatic Compounds, Bioactive Small Molecules, Cell Biology, 추가 사항

가격 및 재고여부

SKU-Pack Size	확인 가능 여부	가격 (KRW)	수량
55922-100G	배송 가능 30.04.2014 - FROM	124,000	0
55922-500G	재고없음 Estimated delivery date 28.05.2014	285,000	0

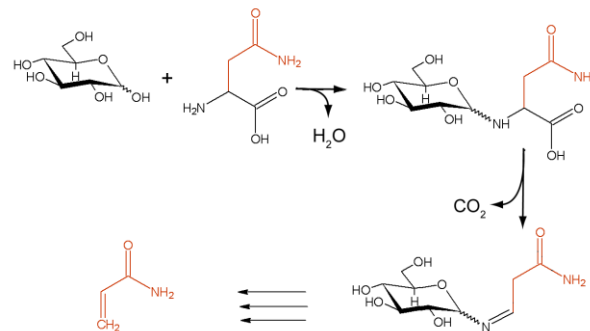
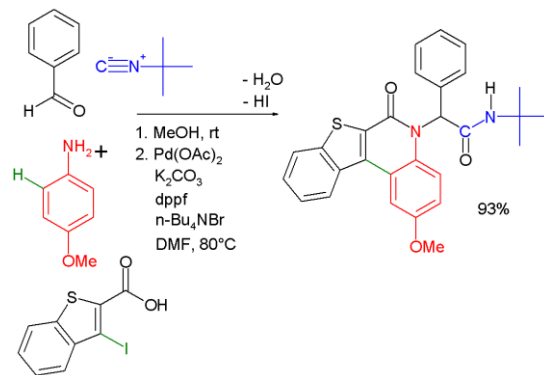
Bulk	Typically in stock	2 weeks
	Synthesis on demand	2 weeks
<div style="border: 1px solid red; display: inline-block; padding: 2px;"> Order from Source 500g, \$50 </div> 2		
500g, EUR14.10		

1. 분류

- CAS번호
- 공급업체명
- 판매 국가
- 공급업체 선호도
- 공급업체 web 지원 및 가격
- 기타 옵션

2. 공급업체 웹페이지 지원

Reaction Search



반응식 검색

REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier

REACTIONS

Reaction Structure

REACTIONS: REACTION STRUCTURE ?

2

Structure Editor:



Search Type:

- Allow variability only as specified
 Substructure

Import CXF

Search

Advanced Search



Launch a SciFinder substance or reaction search directly from ChemBioDraw Ultra 14. [Learn More](#)

반응식 검색: Reaction Editor

The screenshot displays the Reaction Editor software interface. The main window contains a reaction scheme with two reactants: a secondary amine (Me-NH-OH) and a cyclic ketone. A yellow instruction box at the top reads: "Click a reaction participant. A list of roles appears. Click a reaction role and click OK." A red box highlights the 'A B' button in the left-hand toolbar, with a red arrow pointing to it. A yellow box with the number '1' is also present next to the toolbar. A 'Reaction Roles' dialog box is open in the foreground, prompting the user to "Select a role for the structure fragment:" with the following options: product, reactant, reagent, reactant/reagent, and any role. The dialog box has 'OK' and 'Cancel' buttons. On the right side of the main window, the 'Drawing Editor' panel is visible, with 'Reaction' selected. Below it, the 'Get reactions where the structure(s) are:' section has 'Substructures of more complex structures' selected. The status bar at the bottom shows the chemical formula 'C H5 N O . C5 H8 O (reaction q' and the coordinates '47,06 . 84,12'.

반응식 검색 결과

Explore Saved Searches SciPlanner Save Print Export

Reaction Structure substructure > reactions (595)

REACTIONS Get References Tools

Analyze Refine

Analyze by: Reagent

H ₂ O	431
TiCl ₄	420
NaOMe	378
Cs ₂ CO ₃	207
NaH	191
NaHCO ₃	78
Et ₃ N	77
CsH ₅ N	56
H ₂ O ₂	56
HCl	54

Show More

Group by: No Grouping Sort by: Relevance

0 of 595 Reactions Selected

1. View Reaction Detail Similar Reactions 1

Single Step *Hover over any structure for more options.*

H3C-NH-OH + C1CCC(=O)C1 → C1CCC(=N)C1 71%

2 HCl

Overview

Steps/Stages

1.1 R:Disodium carbonate, R:Na₂SO₄, 10 min, rt

1. View details

- View Reaction Detail: 각 Step 별 반응 진행 확인
- Link
- Similar Reactions

2. 공급업체 정보

Other

Keep Me Posted



SciPlanner



알림기능: Keep Me Posted Alerts

The screenshot displays the SciFinder interface for a search on 'Duloxetine'. A 'Create Keep Me Posted Profile' dialog box is open, allowing the user to set up an alert. The dialog includes the following fields and options:

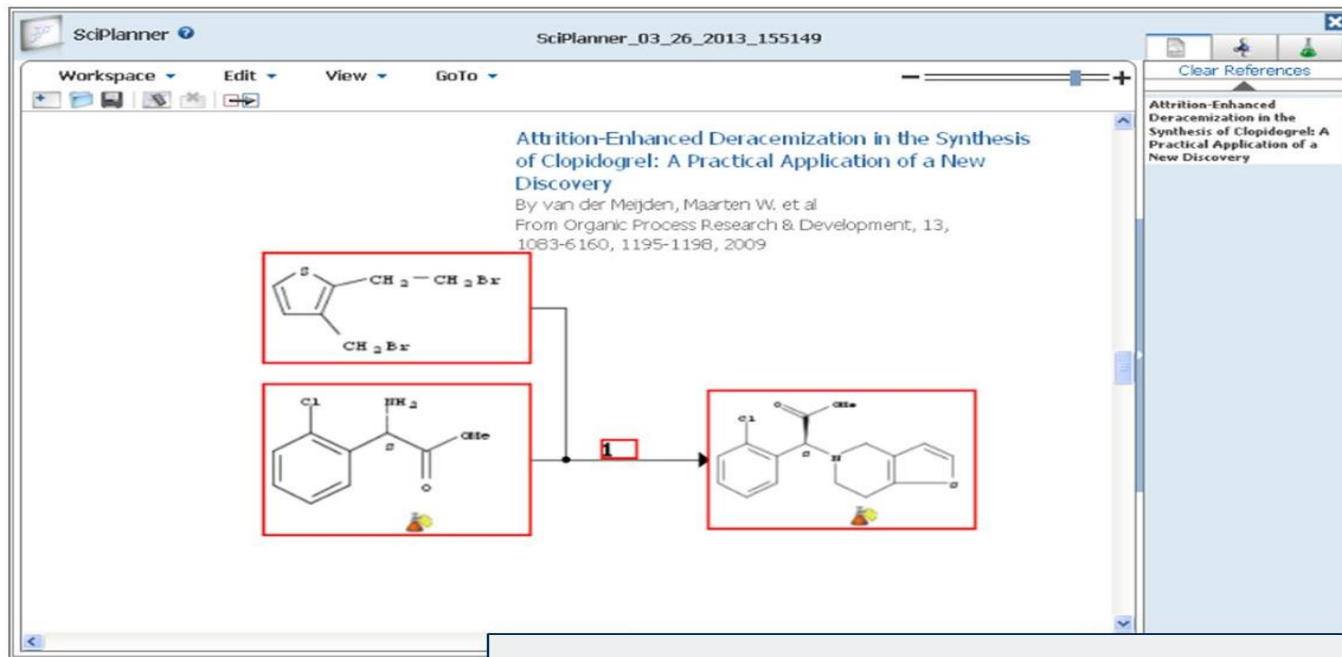
- Title:** * Required, containing 'Duloxetine references'.
- Description:** A text area for additional details.
- Duration:** Expires On: May 14, 2014.
- Frequency:** Send updates once every **Week**.
- Exclude previously retrieved references.

Buttons for 'Create' and 'Cancel' are at the bottom of the dialog. The background interface shows search results for 'Duloxetine' with a 'Create Keep Me Posted Alert' button highlighted in a red box. An arrow points from this button to the dialog box.

검색 키워드에 대하여 업데이트 된
최신 자료 저장 및 알림 기능

** Saved Searches → Keep Me Posted 에서 확인

나만의 연구실 구현: SciPlanner



1. SciPlanner를 통해 문헌, 물질, 반응을 편리하게 관리
2. Retro-Synthesis 및 세부 검색 가능

PatentPak

- 전세계 주요 특허기관의 특허원문을 바로 다운로드 가능
- 특허 PDF 파일 내에서 내용 검색이 가능
- 여러 언어의 패밀리특허를 포함
- 특허 내, 물질이 명시된 페이지를 쉽게 검색
- 신뢰도 높은 특허검색
- 매일 업데이트됩니다.
- SciFinder의 검색기능과 호환되는 특허 뷰어 제공



새로운 검색 도구, PatentPak Viewer

SciFinder 검색 결과에서
특허 내 물질위치로 바로 연결

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PatentPak Viewer

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Options
Search Structure
Search Reactions
Search Markush
View Substance Detail

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946786-71-6
Options

Locations: [page 63](#)

15212-00-7
Options

Locations: [page 63](#)

Using the methods described for the preparation of 1B, the aniline intermediates iii shown in Table 1 were prepared.

Table 1

	X	W	V	Y	R'	(M _n H) ¹	HPLC method
iiia	Br	CH	CH	CH		266	3.70 ¹
iiib	Br	CH	CH	CH		300	4.24 ¹
iiic	Br	CH	CH	CH		300	4.19 ¹
	CH	CH	CH			334	4.23 ¹

Close

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Page 123 in PatentPak

특허 내
화학정보
검색

특허문서의 물질을
SciFinder에서 검색

MethodsNow란?

- 백만이 넘는 합성 및 분석 방법의 컬렉션– with more to come!
 - 집중된 인덱스 및 단계별 실험 절차
 - 분석 연구에 대한 세부 사항 (예- matrix, analyte, instrumentation and comparison capabilities)
- 인터페이스 옵션 권리!!
 - 합성 연구원은 관련 콘텐츠(실험절차 및 정리 표)를 SciFinder 내에서 바로 찾기 가능
 - 분석 연구원들은 자신의 검색에 맞게 새롭게 디자인 된 인터페이스를 통해 관련 콘텐츠를 찾기 가능

Synthetic chemist looking for great methods?
They are in SciFinder.

Analytical scientist just looking for great methods?
A new, easy to use interface just for you.

The screenshot shows the SciFinder interface with a chemical reaction displayed. The reaction involves a substituted benzene ring reacting with a reagent. Below the reaction, the 'Procedure' section is highlighted with a red oval. The procedure text reads: '1. Stir the mixture of 7-methyl-4-methoxy-2-carboxymethyl-2H-chromen-2-one (400 mg, 1.05 mmol), 1-azidoacetic acid (250 mg, 3.12 mmol), (+)-sodium-L-ascorbate (200 mg, 1.62 mmol) in t-butylalcohol (25 mL) at room temperature for 4 hours. 2. Add water to the mixture. View info...'

The screenshot shows the MethodsNow interface. At the top, there is a search bar with the text 'Enter keyword, matrix, analyte, etc.' and a search button. Below the search bar, there is a section titled 'Browse Method Categories' with a grid of categories: Agricultural Applications / Analysis, Bioassays, Biomolecule Isolation, Environmental Analysis, Food Analysis, Fuels / Geology / Biofuels, Historical Analysis / Dating, Miscellaneous, Organic Compound Analysis, Organometallics / Inorganics, Pharmacology / Toxicology, Polymer Analysis, and Water Analysis. At the bottom, there is a 'Recent Searches' section with the text 'Browse: Pesticide Residue Analysis'.

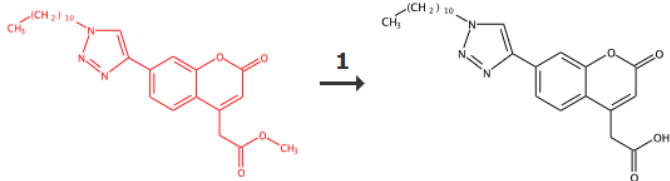
MethodsNow

MethodsNow

7-Triazolylcoumarin-based fluorescent tag system for stepwise, comparative assessment of small molecule microarrays

By Jeon, Moon-Kook; Kang, Myoung-Ku; Park, Koon-Ha
 From Tetrahedron, 68(30), 6038-6053; 2012
 Published by Elsevier Ltd.

Reaction Steps 1 2 3 4



Products	2#1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1#1,2,3-triazol-4-yl)-, 1384966-77-1
Reactants	2#1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1#1,2,3-triazol-4-yl)-, 1384966-75-9
Reagents	Hydrochloric acid, CAS RN: 7647-01-0 Lithium hydroxide, CAS RN: 1310-65-2
Solvents	Water, CAS RN: 7732-18-5 Tetrahydrofuran, CAS RN: 109-99-9

MethodsNow

Procedure

1. Add lithium hydroxide monohydrate(327 mg, 7.80 mmol) to 4-methoxycarbonylmethyl-7-(1-undecyl-1H-1,2,3-triazol-4-yl)-2H-chromen-2-one (343 mg, 0.780 mmol) in THF/water(25 mL/25 mL) at room temperature.
2. Stir the reaction mixture for 3 hours at room temperature.
3. Adjust pH 3-4 to the reaction mixture by adding 1 N hydrochloric acid.
4. Partition the reaction mixture between ethyl acetate and water.
5. Extract the aqueous layer with ethyl acetate.
6. Dry the combined organic layer over magnesium sulfate.

Scale

milligram

¹H NMR

¹H NMR (300 MHz, acetone-*d*₆): δ = 7.83 (s, 1H), 8.58 (s, 1H), 7.92 (d, *J* = 8.1 Hz, 1H), 7.84 (d, *J* = 8.1 Hz, 1H), 6.47 (s, 1H), 4.50 (t, *J* = 7.2 Hz, 2H), 3.99 (s, 2H), 2.00 (quintet, *J* = 7.2 Hz, 2H), 1.32-1.43 (m, 4H), 1.22-1.32 (m, 12H), 0.87 ppm (t, *J* = 6.8 Hz, 3H).

¹³C NMR

¹³C NMR (125 MHz, DMF-*d*₇, 60 °C): δ = 161.0, 155.1, 154.2, 146.5, 136.0, 127.2, 123.7, 122.1, 120.4, 115.3, 113.5, 51.1, 32.8, 29.9, 27.3, 23.5, 18.7, 14.7 ppm (decarboxylation occurred to give the corresponding 4-methyl derivative).

IR

IR (ATR, neat): ν = 3423, 2922, 2851, 1702 (2C=O, overlapped), 1619, 1561, 1375, 1154, 936, 852, 809 cm⁻¹.

HRMS

HRMS (EI): *m/z* calculated for C₂₄H₃₁N₃O₄: 425.2315 [M⁺]; found: 425.2315.

Mass Spec

MS (ESI): *m/z*: 426 [M+H⁺].

MP

235.5±0.8 °C.

CAS Method Number

3-352-CAS-78415

Print/Export

Close



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A CAS SOLUTION

CAS SciFinder 인허 계약

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(<http://www.cas.org/legal/infopolicy.html>)

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