SCIFINDER

Using SCiFinder

Learning Objectives

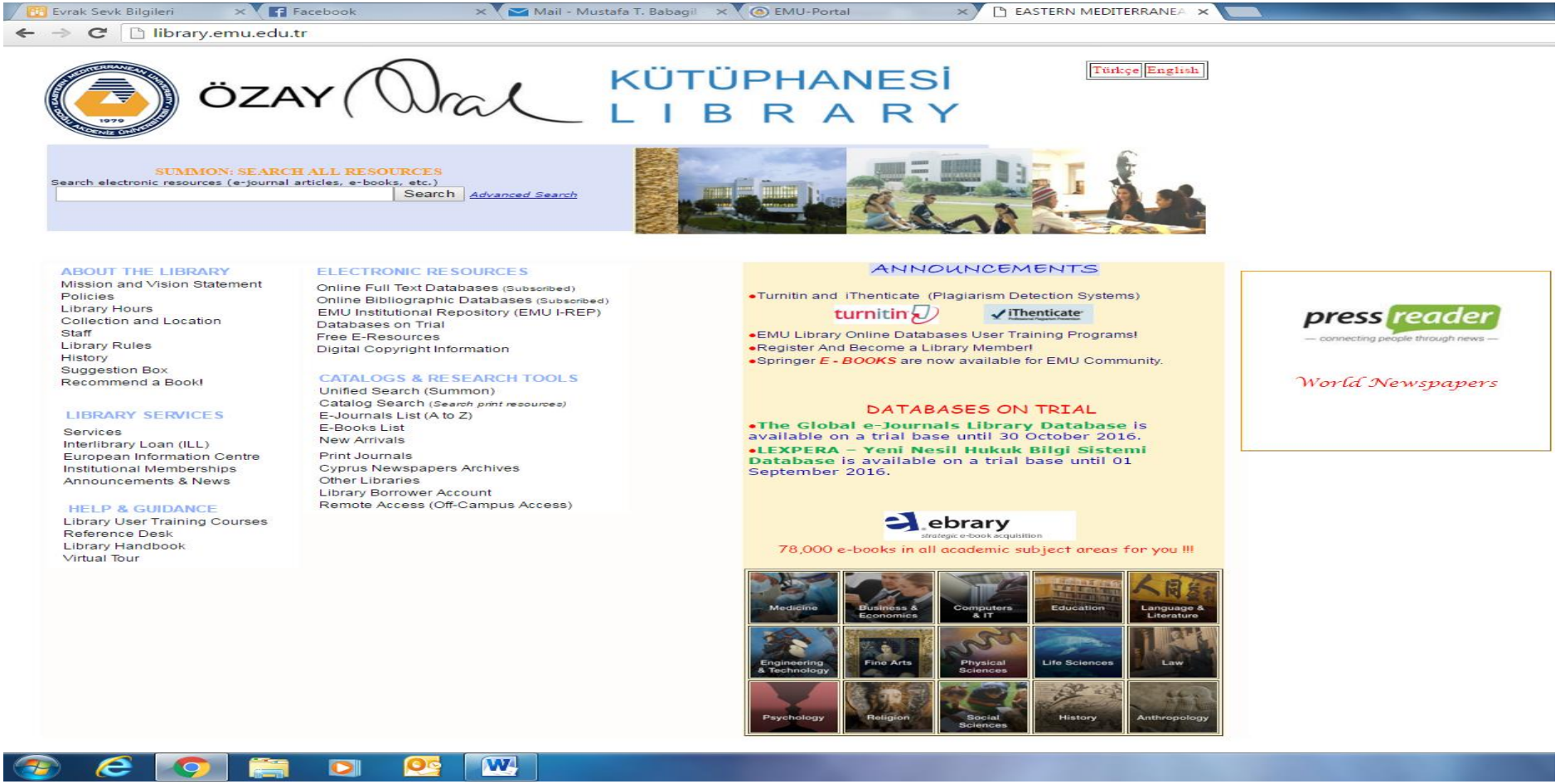
1. EMU Library web page.
2. Following the links to SciFinder.
3. How to register SCIFINDER web page.
4. Completing registration to SciFinder.
5. Login to SciFinder and make a search, save your search, check your history and get to understand the user interface and environment.

Overview

- This chapter covers:
  - The SciFinder online database
  - Using Library web page to connect SciFinder Web page
  - How to register yourself as a user
  - Using your User Name and Password
  - Practice on search subjects via SciFinder.

SCIFINDER

- Write the address to a browser to connect emu library site library.emu.edu.tr
- You will have the following page.



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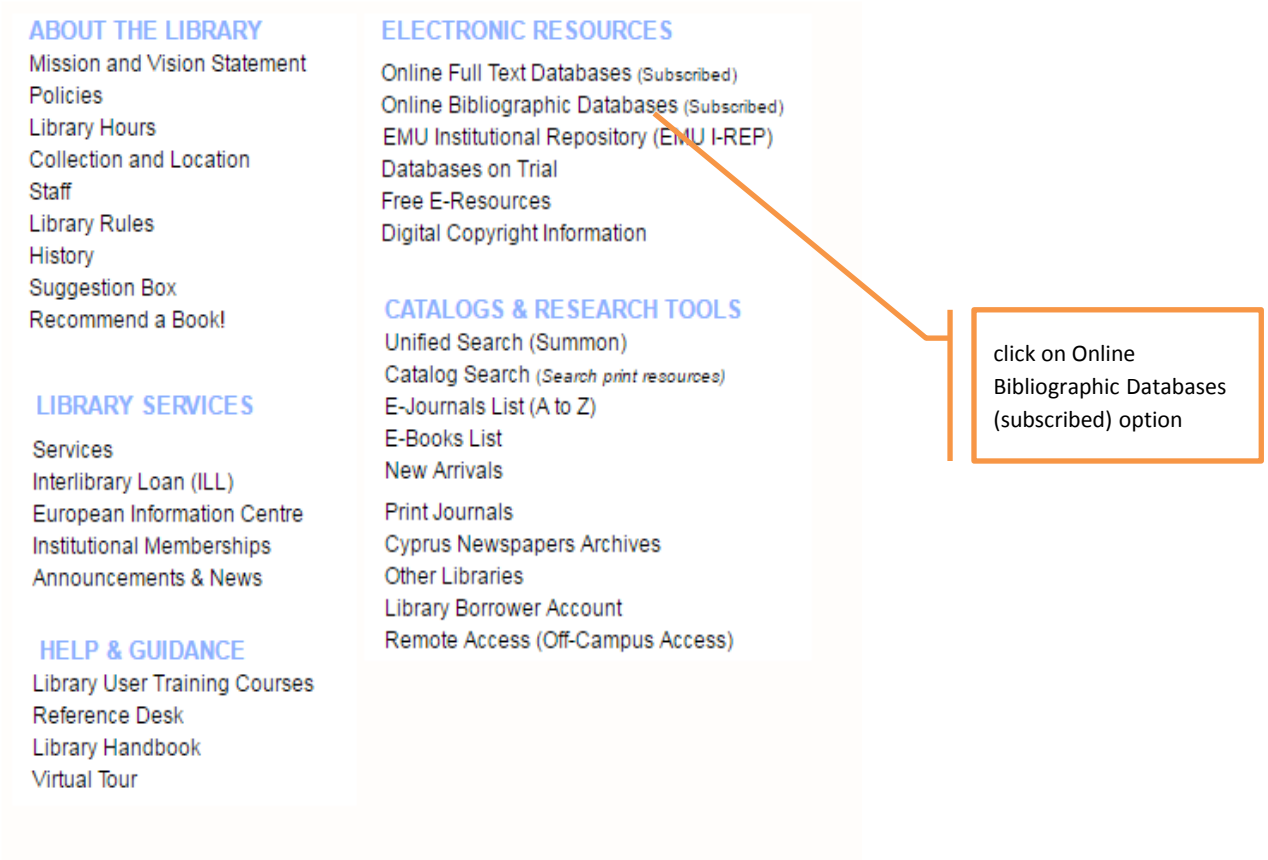
- Then on the left side of this web page ELECTRONIC RESOURCES list is available. You should click on **Online Bibliographic Databases (subscribed)** option to find out related online databases.



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- Then You will be directed to a page about copyrights which you should definitely accept, and continue.

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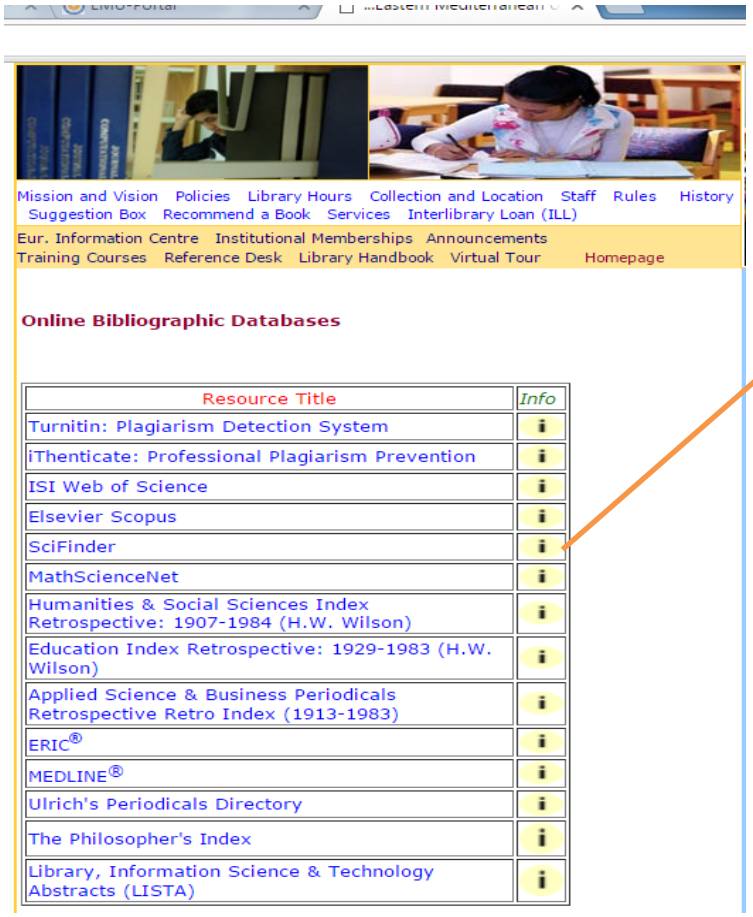
- In the following page you should click on the info column of the list about resource. Resource names are listed blue and info column is yellow!.



You should click on the info

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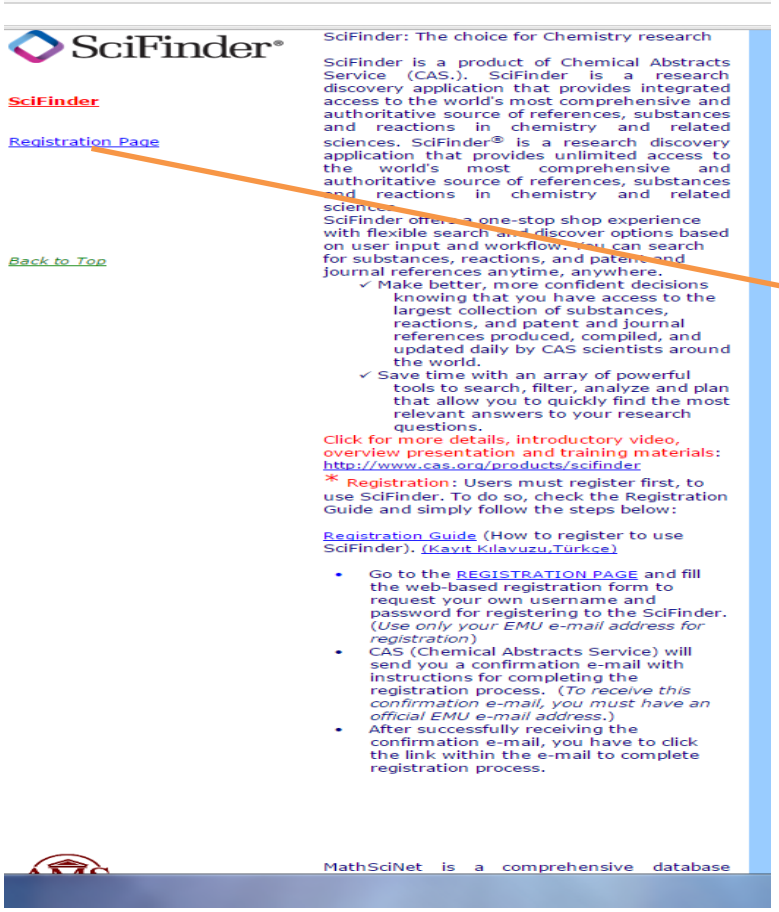
- After you have the related documentation and links as shown in the picture, you should click on registration page link so that necessary information form will be available.



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- You will have a page to click **Next >>**

You should click on the Next >> button.

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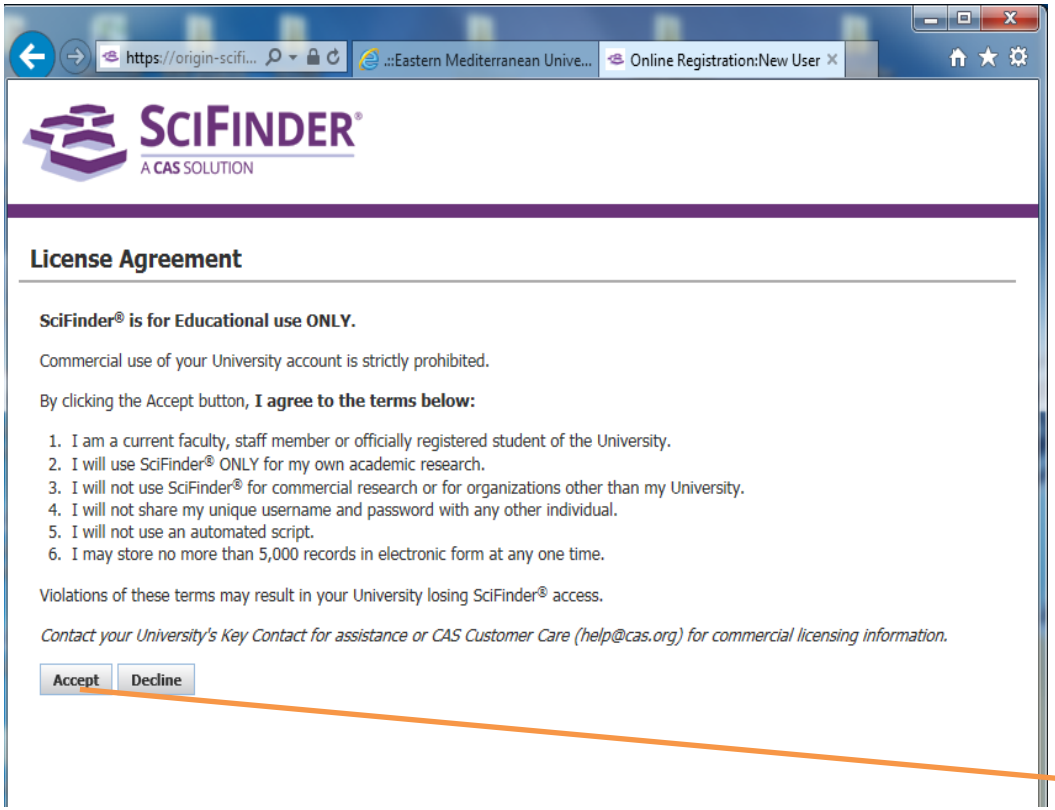
- License Agreement page. Either you should **Accept** and continue or Decline to exit.
- You should click on **Accept** button to continue with registration.



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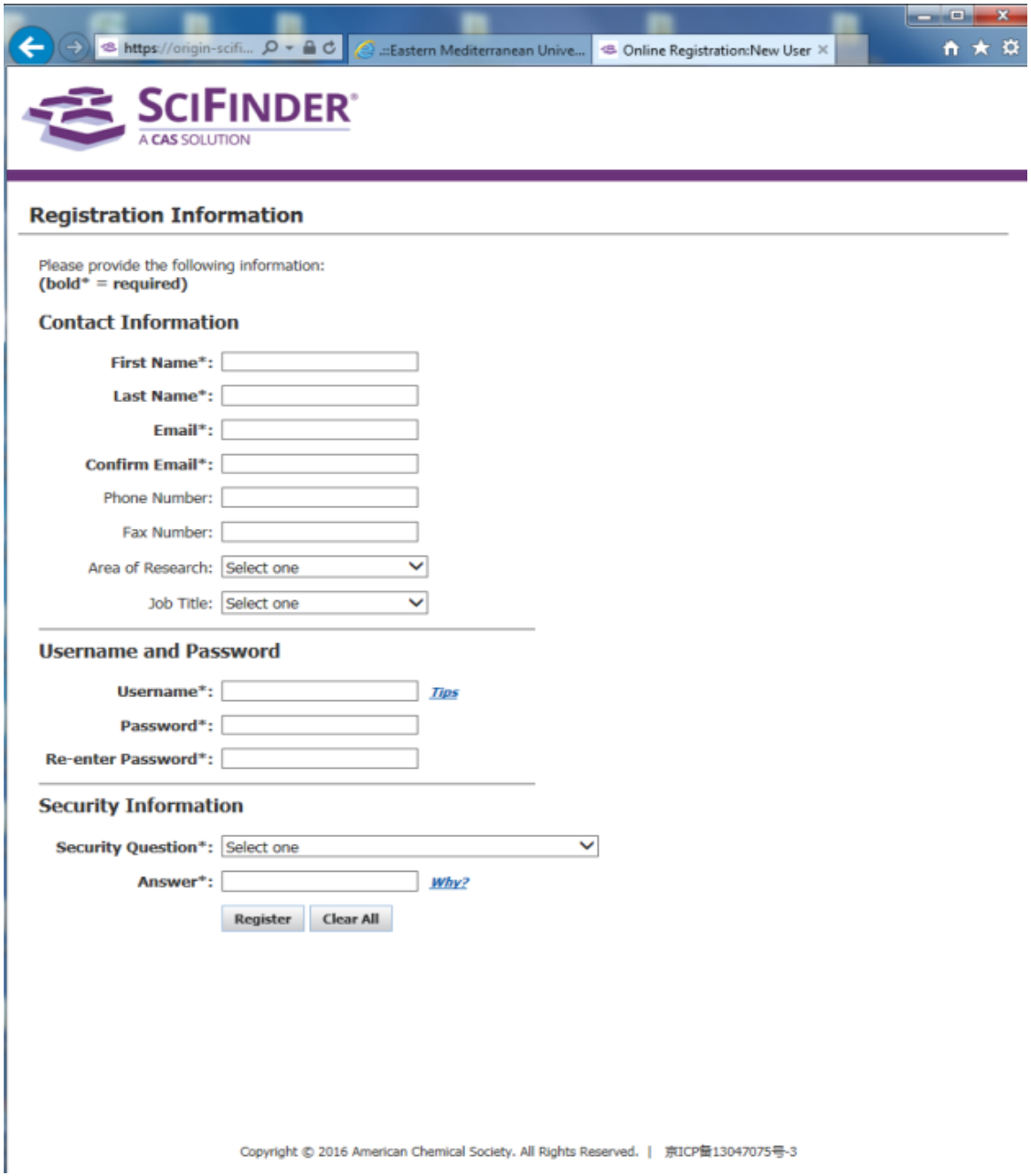
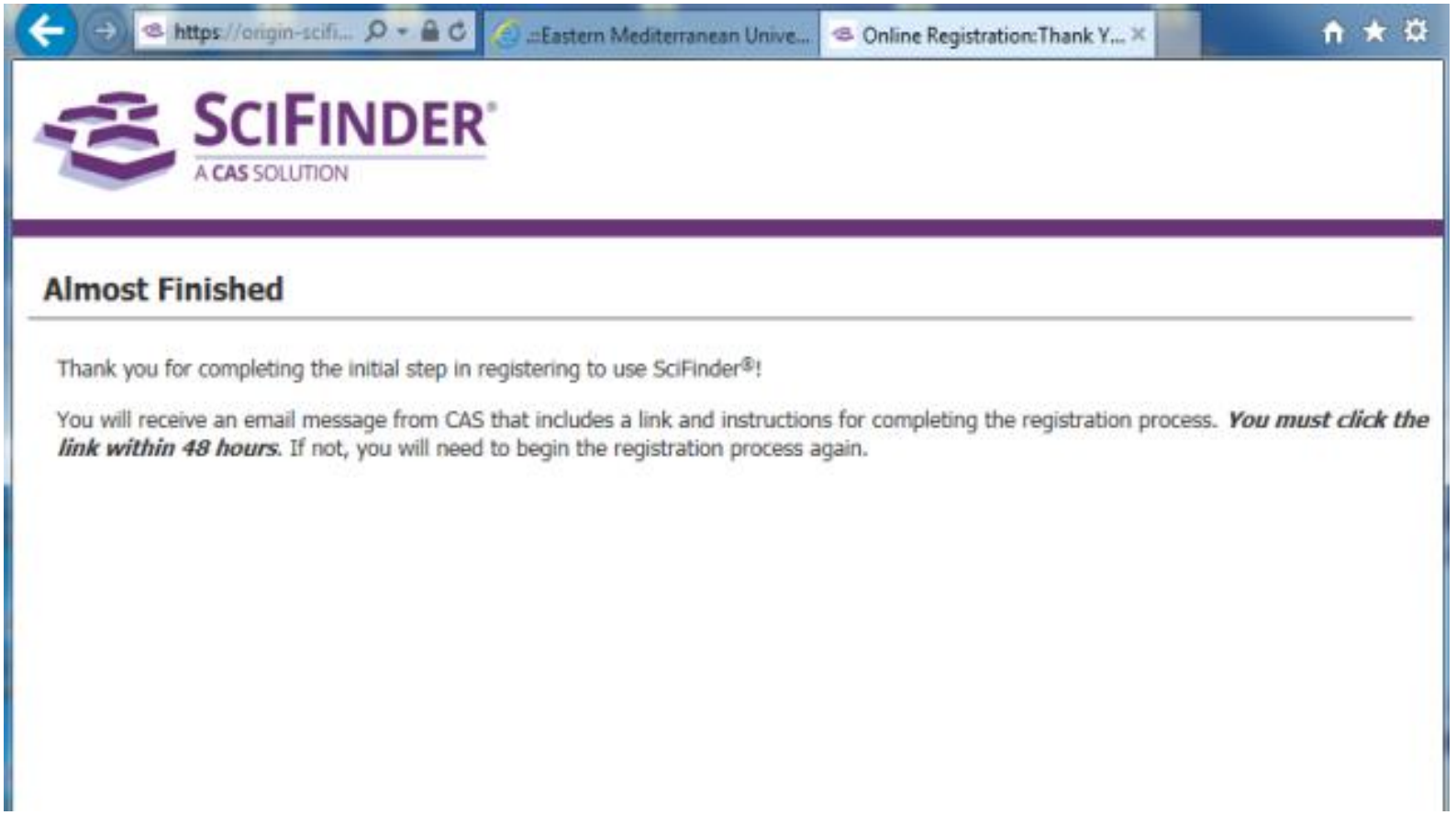
- You should fill the Form. Be careful on apteryx (*) fields where compulsory to be filled.



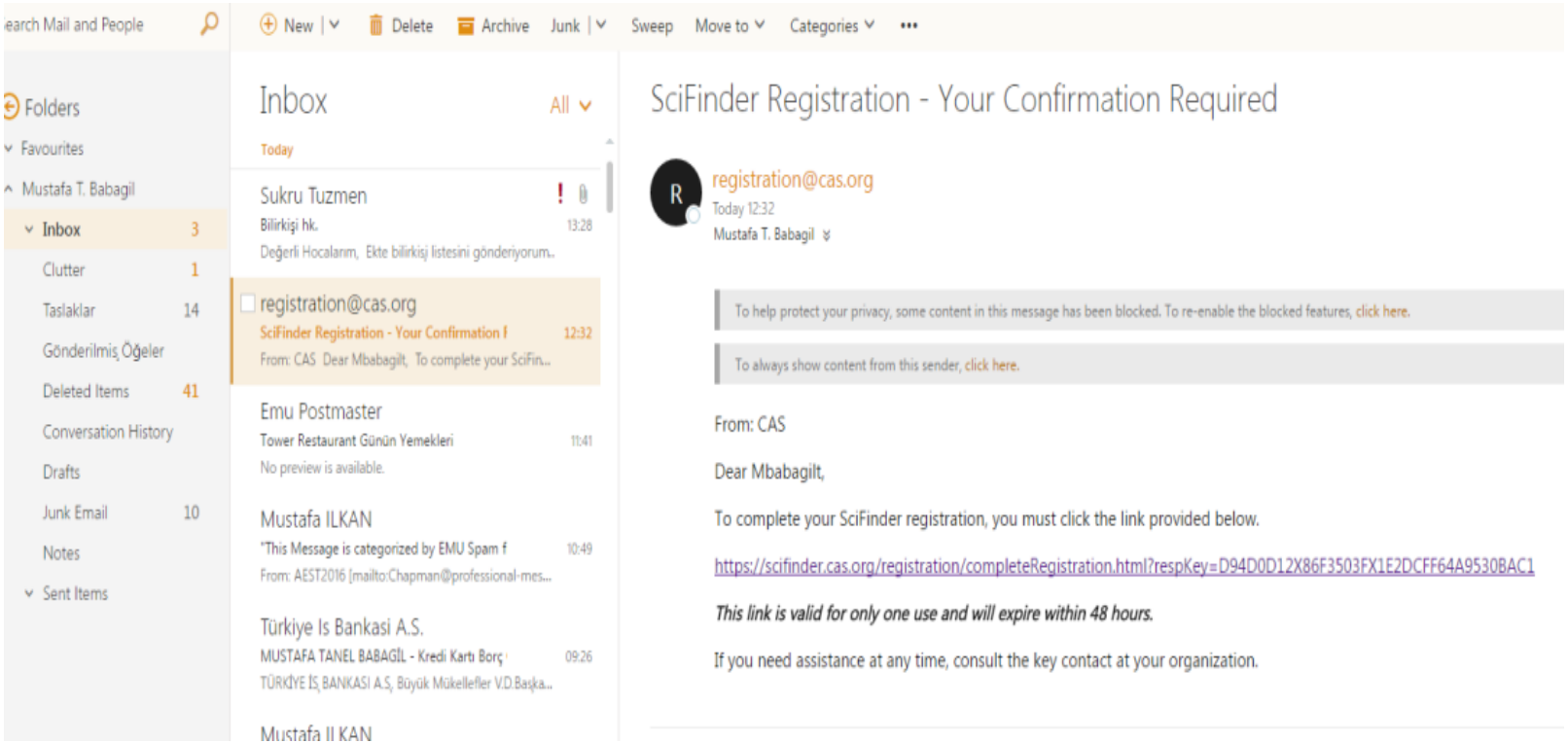
SCIFINDER

- Then, after you click on the button Register you should have the following page. **Keep in your mind that an e-mail is sent to your e-mail address and waiting your click on it within 48 hours!.**



SCIFINDER

- You will receive an e-mail as shown in the preview. Click on the link given in the e-mail to complete registration process.



Science finder page will inform you the license agreement to confirm. Then you can begin to search about your research topics and fields.

Introduction to preliminary search by SciFinder

Explore Research Topic
Example: Acetylcholinesterase Inhibitors

CAS Solutions

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REFERENCES
- Research Topic
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- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES
- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REFERENCES: RESEARCH TOPIC

Acetylcholinesterase inhibitors

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

Search

Advanced Search

CAS Solutions

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Research Topic "Acetylcholinesterase inhibitor..."

REFERENCES

Select All Deselect All

1 of 2 Research Topic Candidates Selected

- [x] 5319 references were found containing **"Acetylcholinesterase inhibitors"** as entered.
- [ ] 24921 references were found containing the concept **"Acetylcholinesterase inhibitors"**.

Get References

Tip: by this option you can save the search results.

Explore ▾ | Saved Searches ▾ | SciPlanner | Save | Print | Export

Research Topic "Acetylcholinesterase inhibitor..." > **references (5319)**

REFERENCES | Get Substances | Get Reactions | Get Related Citations | View Only CHEMZENT | Tools ▾ | Create Keep Me Posted Alert | Send to SciPlanner

Analyze | Refine | Categorize

Analyze by: Author Name

Kuca Kamil	43
Foroumadi Alireza	32
Shafiee Abbas	31
Bartolini Manuela	30
Sugimoto Hachiro	29
Andrisano Vincenza	28
Carlier Paul R	27
Malawska Barbara	27
Nadri Hamid	24
Bajda Marek	23

Sort by: Accession Number ▾ | Display Options

1 of 5319 References Selected | Page: 1 of 266

1. **Screening of acetylcholinesterase inhibitors in herbal medicines**
Quick View | Other Sources
By Chung, Hwan-Suck; Choi, Yeon Jung; Bang, Ji Hyun; Jung, Heejae; Bae, Hyunsu
From Oriental Pharmacy and Experimental Medicine (2015), 15(2), 147-152. | Language: English, Database: CAPLUS

The pathogenesis of Alzheimer's disease (AD) has been linked to a deficiency in the brain neurotransmitter acetylcholine. Subsequently, **acetylcholinesterase** (AChE) **inhibitors** were used for the treatment of mild to moderate AD. The goal of this study was det. the candidate therapeutic herbal medicines on AD through AChE inhibition. In the present study, the AChE inhibitory effects of 255 herbal medicines were evaluated using an AChE assay. 14 herbal medicines increased the AChE activity but 8 herbal medicines inhibited the AChE activity more than 50 %. When we analyzed the AChE activity of ...

2. **The combination of memantine and galantamine improves cognition in rats: The synergistic role of the α7 nicotinic acetylcholine and NMDA receptors**
Quick View | Other Sources
By Nikiforuk, Agnieszka; Potasiewicz, Agnieszka; Kos, Tomasz; Popik, Piotr
From Behavioural Brain Research (2016), 313, 214-218. | Language: English, Database: CAPLUS

The combination of memantine and **acetylcholinesterase inhibitors** (AChEIs) is used as a therapeutic strategy to improve cognition in Alzheimer's disease. Among AChEIs, galantamine, which is also a pos. allosteric modulator (PAM) of nicotinic acetylcholine receptors (nAChRs), including α7-nAChRs, may be particularly beneficial. The α7-nAChR is involved in interactions between the cholinergic and glutamatergic systems. In the present study, we investigated the potential role of α7-nAChRs in the pro-cognitive effects of this drug combination. To this aim, cognitive performance in rats was asse...

3. **Synthesis and evaluation of novel 1,2,3-triazole-based acetylcholinesterase inhibitors with neuroprotective activity**
Quick View | Other Sources
By Li, Jia-Cheng; Zhang, Juan; Rodrigues, Mosar Correa; Ding, De-Jun; Longo, Joao Paulo Figueiro; Azevedo, Ricardo Bentes; Muehlmann, Luis Alexandre; Jiang, Cheng-Shi
From Bioorganic & Medicinal Chemistry Letters (2016), Ahead of Print. | Language: English, Database: CAPLUS

1. Screening of acetylcholinesterase inhibitors in herbal medicines

By: Chung, Hwan-Suck; Choi, Yeon Jung; Bang, Ji Hyun; Jung, Heejae; Bae, Hyunsu

The pathogenesis of Alzheimer's disease (AD) has been linked to a deficiency in the brain neurotransmitter acetylcholine. Subsequently, acetylcholinesterase (AChE) inhibitors were used for the treatment of mild to moderate AD. The goal of this study was det. the candidate therapeutic herbal medicines on AD through AChE inhibition. In the present study, the AChE inhibitory effects of 255 herbal medicines were evaluated using an AChE assay. 14 herbal medicines increased the AChE activity but 8 herbal medicines inhibited the AChE activity more than 50 %. When we analyzed the AChE activity of each herbal medicine on the based of therapeutic category on Herbalogy, the category of collecting dispersed essence energy had the highest no. of herbal medicines (2 out of 9) among of 8 herbal exts. which have AChE inhibition activities. However, the category of warming inside had the highest no. of herbal medicines among of 14 herbal exts. which have AChE increasing activities (2 out of 7). When we compared our results with other researchers' results, the correlation was significantly high (p = 0.0003). Our results provide the potential drug candidates for further studies by unbiased screening.

Indexing

Pharmacology (Section1)

Citations

Anon; Chopra K, Misra S, Kuhad A (2011) Neurobiological aspects of Alzheimer's disease Expert Opin Ther Targets 15:535-555
Committee KMTC; Herbalogy 2004
Cui, Y; Zhong Yao Cai 2004, 27, 589
Cui, Y; Zhongguo Zhong Yao Za Zhi 2002, 27, 404
Dalai, M; Orient Pharm Exp Med, 10.1007/s13596-013-0141-3 2014, 14, 31
DeKosky, S; Neurodegeneration, 10.1006/neur.1996.0056 1996, 5, 417
Forman, M; Nat Med, 10.1038/nm1113 2004, 10, 1055

QUICK LINKS
0 Tags, 0 Comments

SOURCE
Oriental Pharmacy and Experimental Medicine
Volume15
Issue2
Pages147-152
Journal; Online Computer File
2015
CODEN:OPEMAB
ISSN:2211-1069
DOI:10.1007/s13596-014-0177-z

COMPANY/ORGANIZATION
Department of Physiology, College of Korean Medicine
Kyung Hee University
Seoul, S. Korea 130-701

Explore Chemical Structure Example: Rivastigmine as an AChE Inhibitor

Explore ▾ | Saved Searches ▾ | SciPlanner

Research Topic "acetylcholinesterase inhibitor..." > references (5319)

REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS

- Reaction Structure

REFERENCES: RESEARCH TOPIC

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

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Research Topic "acetylcholinesterase inhibitor..." > references (5319)

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- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES
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- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS
- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:

Java | Non-Java

Click to Edit

Import CXF

Search

Advanced Search

Search Type:
- Exact Structure
- Substructure
- Similarity

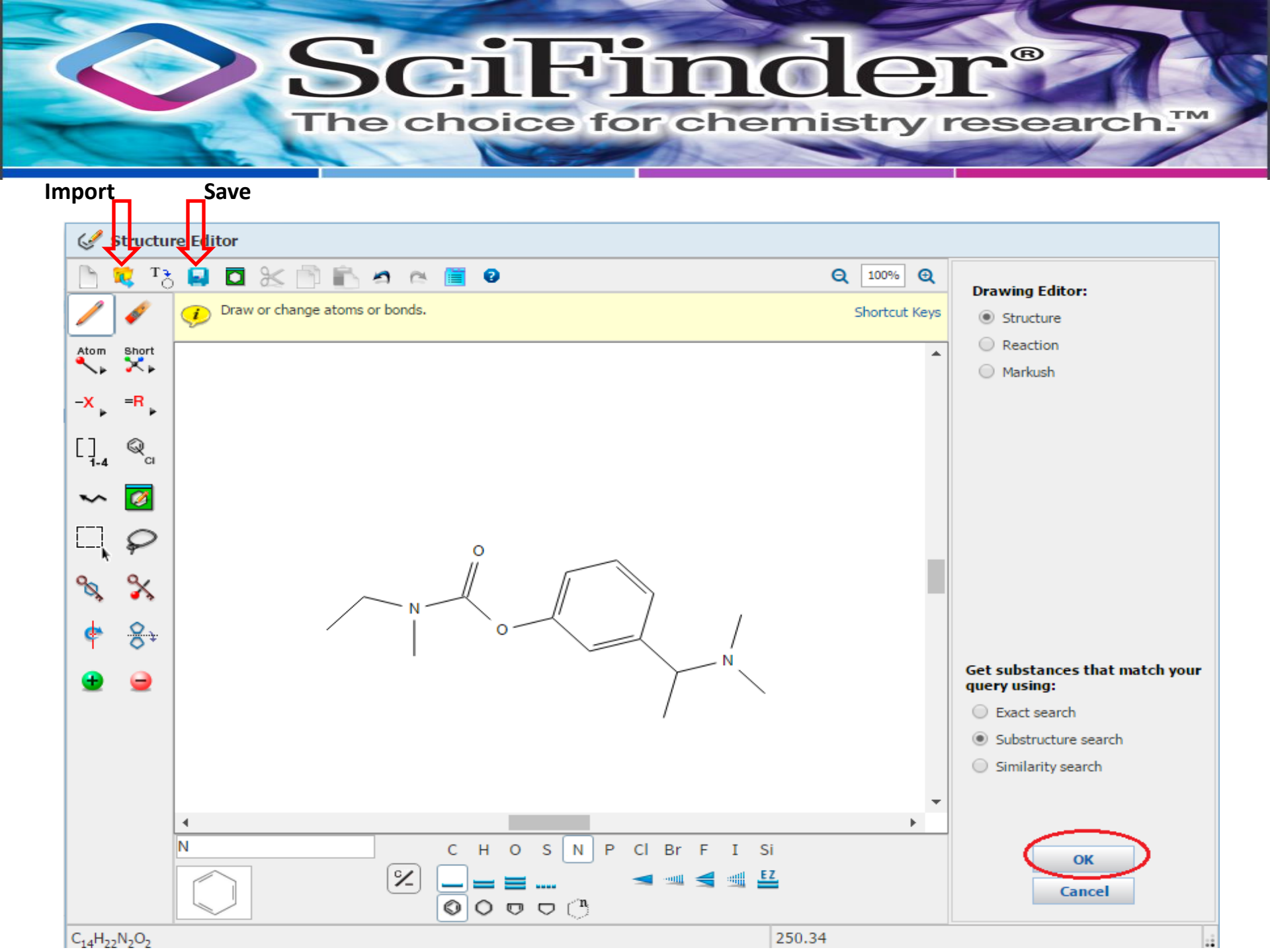
Show precision analysis

Tip: It can be possible to import chemical structures from ChemDraw.

ChemDraw

Launch a SciFinder substance or reaction search directly from ChemBioDraw

More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Substructure search
Similarity search
OK
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C H O S N P Cl Br F I Si
$C_{14}H_{22}N_2O_2$
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- Tags

SUBSTANCES

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- Substance Identifier

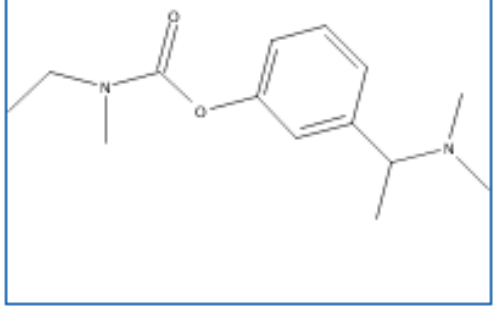
REACTIONS

- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:

Java | Non-Java



Click image to change structure or view detail.

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Search Type:

- (•) Exact Structure
- ( ) Substructure
- ( ) Similarity

[ ] Show precision analysis

ChemDraw

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More

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SUBSTANCE DETAIL | Get References | Get Reactions | Get Commercial Sources

Return

1. CAS Registry Number 123441-03-2

~1,738 ~55

$C_{14}H_{22}N_2O_2$

Carbamic acid, *N*-ethyl-*N*-methyl-, 3-[(1*S*)-1-(dimethylamino)ethyl] phenyl ester

Molecular Weight
250.34

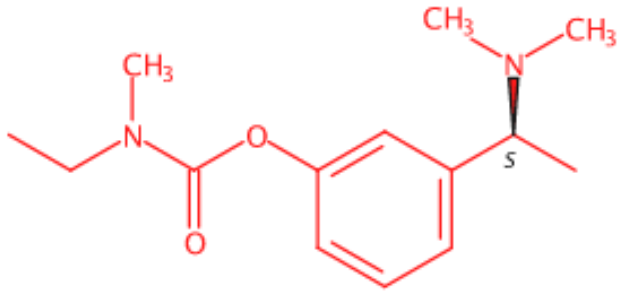
Boiling Point (Predicted)
Value: 316.2±34.0 °C | Condition: Press: 760 Torr

Density (Predicted)
Value: 1.038±0.06 g/cm3 | Condition: Temp: 20 °C Press: 760 Torr

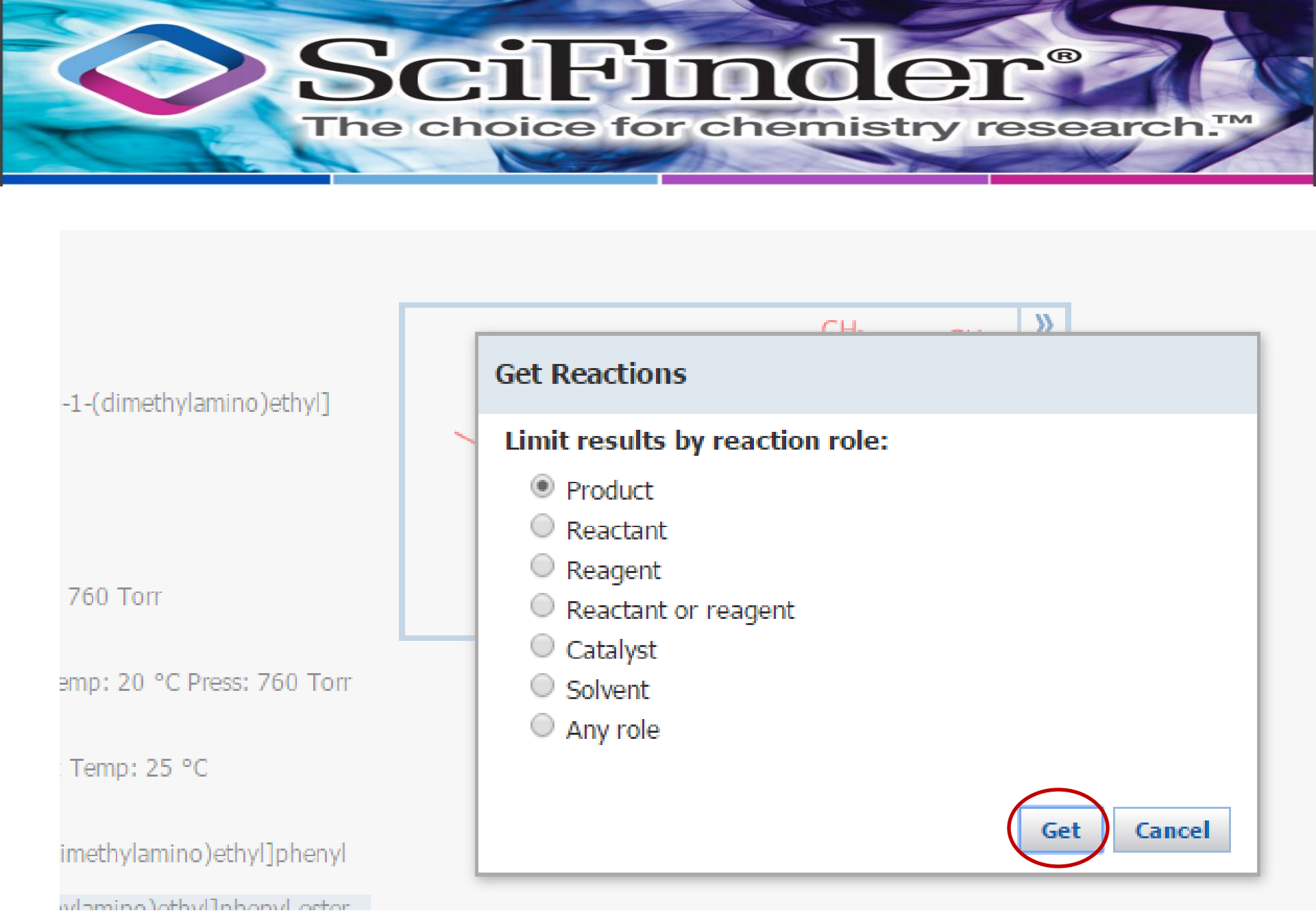
pKa (Predicted)
Value: 8.62±0.50 | Condition: Most Basic Temp: 25 °C

Other Names
Carbamic acid, ethylmethyl-, 3-[(1*S*)-1-(dimethylamino)ethyl]phenyl ester (9CI)
Carbamic acid, ethylmethyl-, 3-[1-(dimethylamino)ethyl]phenyl ester, (*S*)-
ENA 713 free base
Exelon
Prometax

View more...



Absolute stereochemistry.,Rotation (-).


SciFinder®
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-1-(dimethylamino)ethyl]
760 Torr
emp: 20 °C Press: 760 Torr
Temp: 25 °C
imethylamino)ethyl]phenyl
Get Reactions
Limit results by reaction role:
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Reactant
Reagent
Reactant or reagent
Catalyst
Solvent
Any role
Get
Cancel

REACTIONS | Get References | Tools | Send to SciPlann

Analyze | Refine

Analyze by: Reagent

NaH	203
NaOH	187
HBr	140
HCl	132
Disodium carbonate	127
K_2CO_3	126
H_2O	115
$NaHCO_3$	110
H_2	101
Et_3N	67

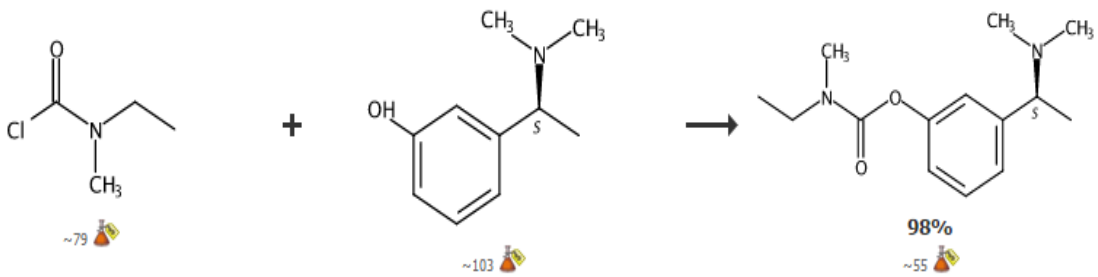
Show More

Group by: No Grouping | Sort by: Accession Number | Display Optio

0 of 422 Reactions Selected | Page: 1 of 29

1. View Reaction Detail | Link | Similar Reactions

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



~79 ~103 ~55

Overview

Steps/Stages

1.1 S:Me_2CO, 8 h, reflux

Notes

optimization study, optimized on solvent and reaction time, Reactants: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Process for preparation of rivastigmine tartrate
Quick View PATENTPAK
By Lu, Chuanyou et al
From Faming Zhuanli Shenqing, 105439906, 30 Mar 2016

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Explore Chemical Reaction

Example: conversion of 2-phenyl acetonitrile to 2-phenyl acetic acid

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Reaction Structure substructure > reactions (14115)

REFERENCES

- Research Topic
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- Company Name
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- Tags

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- Property
- Substance Identifier

REACTIONS

1 Reaction Structure

REACTIONS: REACTION STRUCTURE

Structure Editor:

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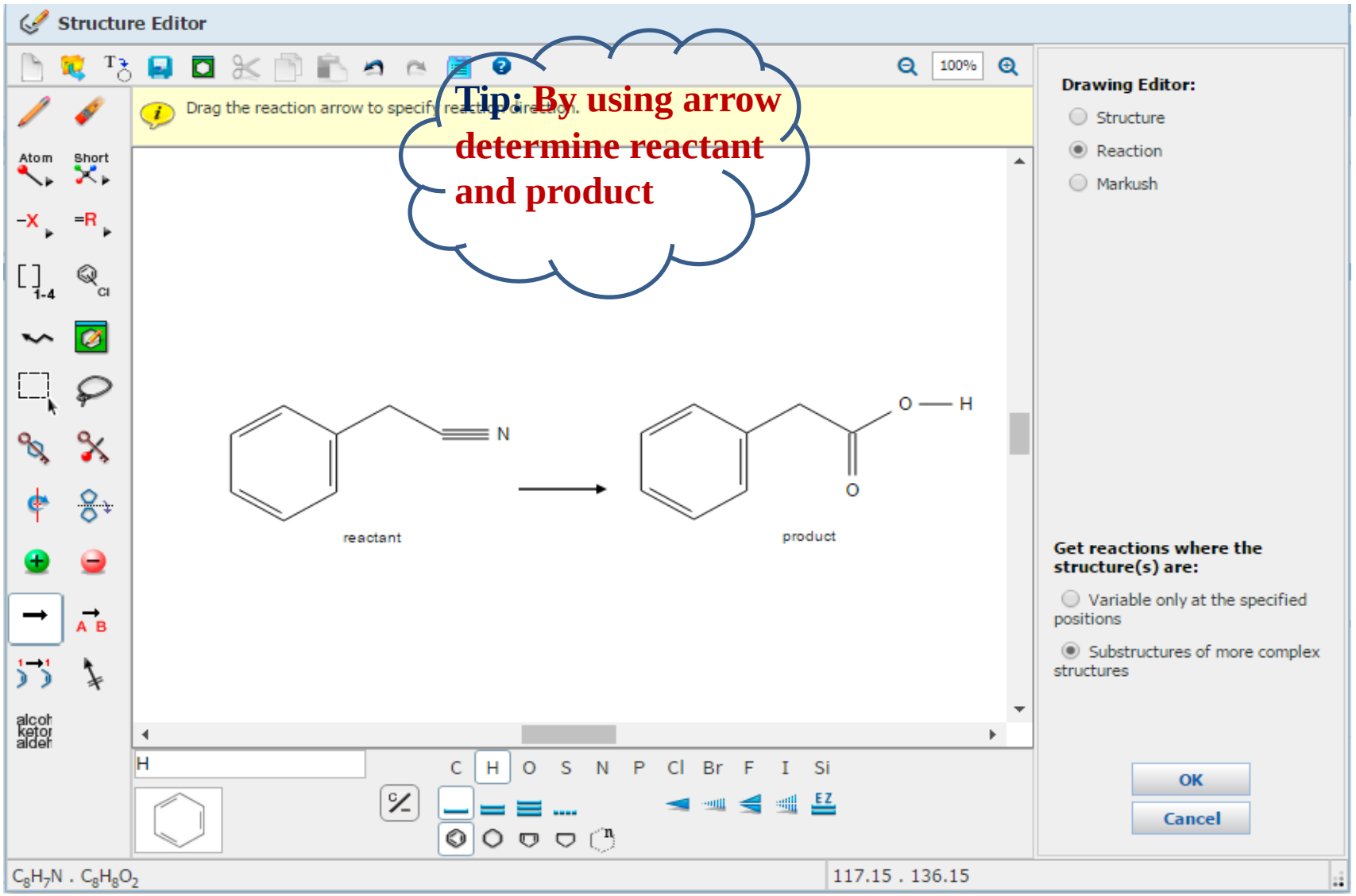

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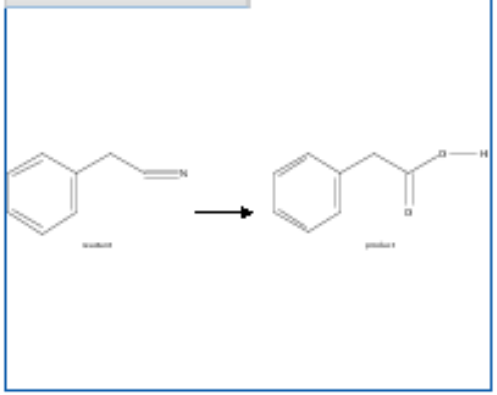
REACTIONS

- Reaction Structure

REACTIONS: REACTION STRUCTURE

Structure Editor:

Java | Non-Java



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Search Type:

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- Substructure

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Search

Advanced Search

REACTIONS | Get References | Tools | Send to SciPlanner

Analyze | Refine

Analyze by: Reagent

HCl	9545
NaOH	5923
KOH	4429
H_2SO_4	3464
K_2CO_3	2627
Et_3N	2598
LiOH	2577
AcOK	2019
H_2O	1880
Cs_2CO_3	1848

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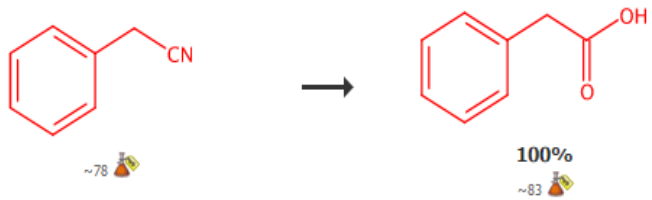
0 of 14115 Reactions Selected | Page: 1 of 941

1. View Reaction Detail | Link | Similar Reactions

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



Overview

Steps/Stages

1.1 R:D-Glucose, R:KH_2PO_4, R:NaCl, R:$MgSO_4$, S:H_2O, 35°C, pH 9
1.2 S:H_2O, 12 h, 35°C, pH 8

Notes

enzymic, biotransformation, buffered solution, Brevibacterium sp. CCZU12-1 used, Reactants: 1, Reagents: 4, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Biotransformation of α-cyclohexyl mandelonitrile or its derivatives into α-cyclohexyl mandelic acid or its derivatives with Brevibacterium sp.
Quick View PATENTPAK
By He, Yucai et al
From Faming Zhuanli Shenqing, 103103156, 15 May 2013