CAS SciFinder – Essential Features for Students

Substances Search

Substance name search

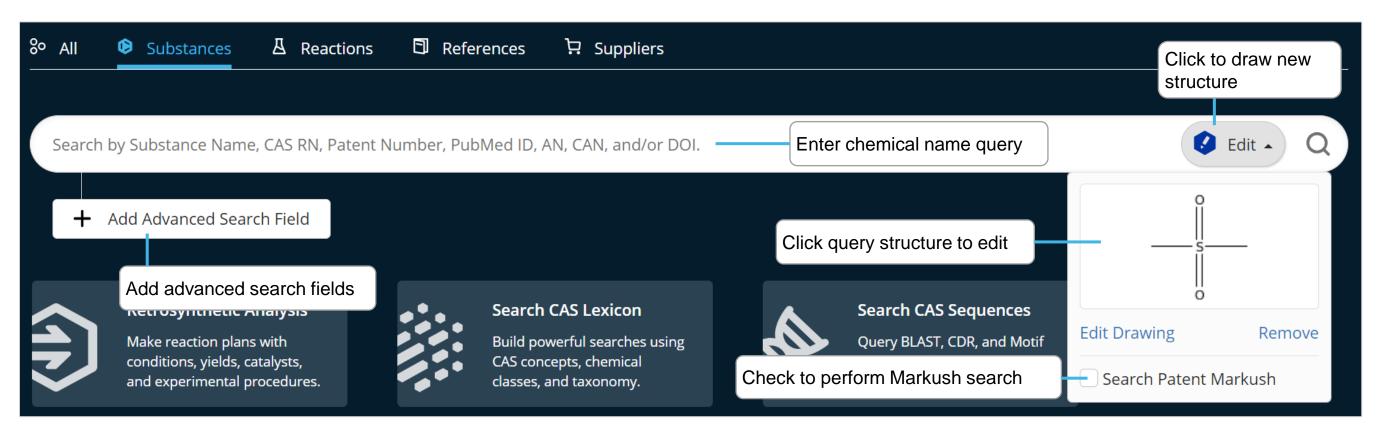
You can search substances by placing one or more substance names or identifiers into the query box. You can also draw or edit a structure. Below are name search option examples.

Streptomycin Finds Streptomycin record

Finds Streptomycin record, using CAS Registry Number[®] as identifier **57-92-1**

Finds all names that start with the stem Sulfoximin Sulfoximin*

Finds all indexed substances for this patent WO2019234160



CAS Draw editor

You can define structure and reaction queries using the

Substances search result

Substances search results are displayed in an intuitive interface

Reactions Search and Retrosynthesis Planner

Reaction Searching

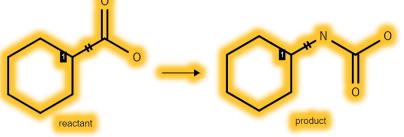
(1) Text search.

Vanillin \rightarrow Refine with substance roles in the next step to limit to the correct context, e.g. product or reactant

Synthesis of solatenol catalyzed by copper oxide

Suzuki \rightarrow Use Search Within in the next step to draw out specific reaction participants following the Suzuki coupling scheme

(2) Draw reaction diagram. Draw a reaction diagram in the drawing editor or from a reaction answer set using 'Search Within'. Draw a reaction arrow between reactant and product. If you draw reagents, please make sure to assign an appropriate role AB. Reaction search example:



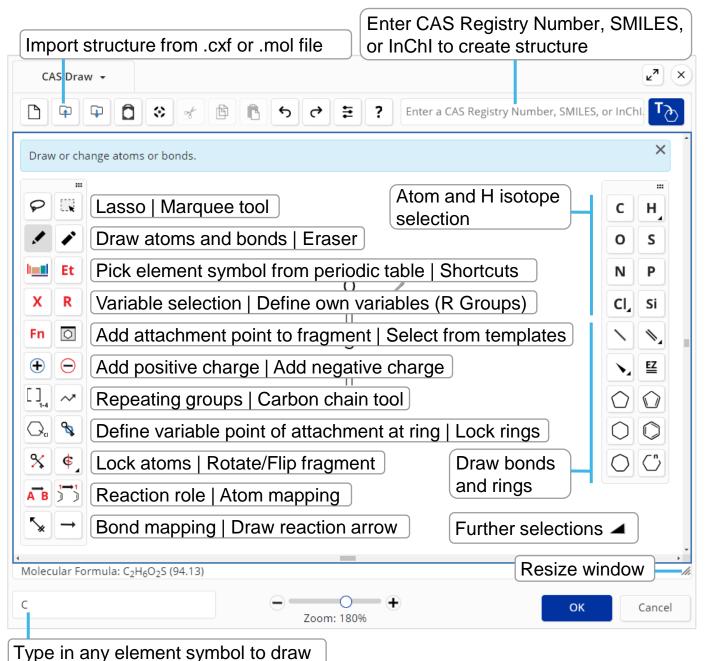
A B	Assign reaction role		Map atom in reactant and product
^★	Map bond to be broken or formed	\rightarrow	Draw reaction arrow betw

ow between reactant and product

Reaction search results



CAS Draw structure editor.



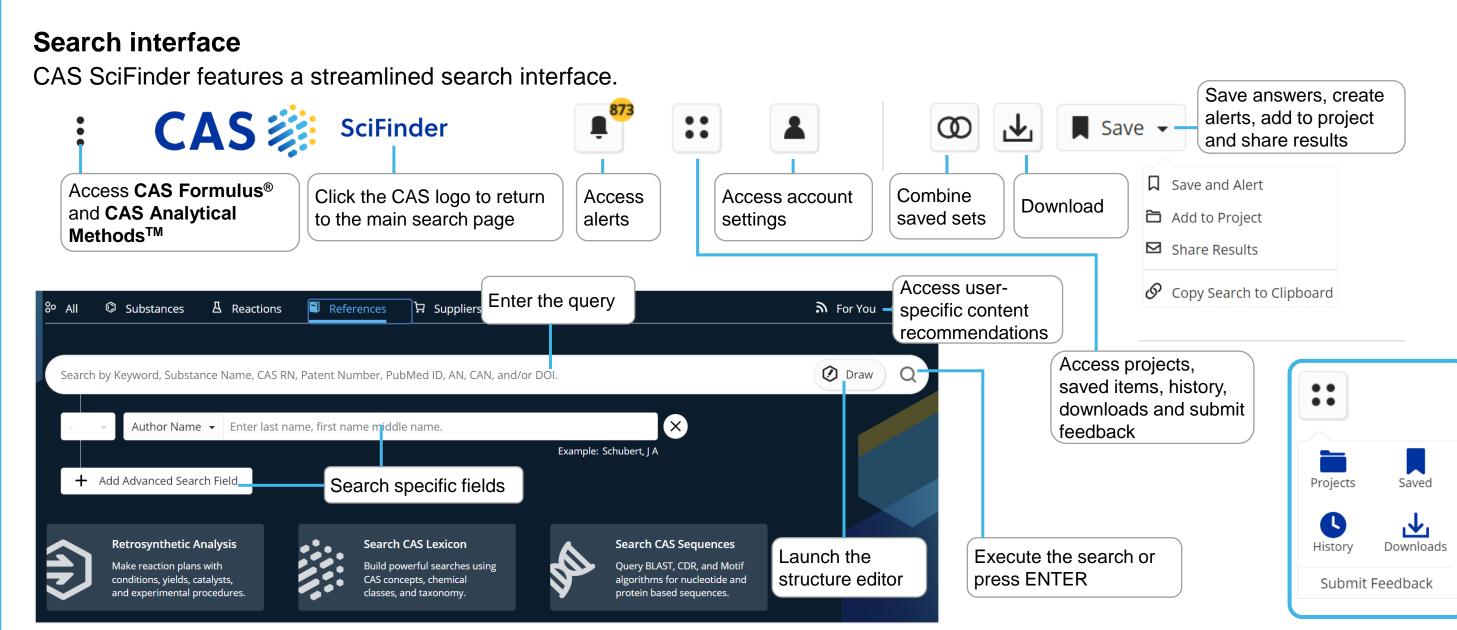
ChemDraw allows to search structures in SciFinder by

using the SciFinder add-in from the menu or icon. The

SciFinder history will show 'Searched from ChemDraw'

where you will see the most relevant results for your search Get related references. 🗈 References 🗸 🛛 🗸 Reactions 🗸 📜 Suppliers 🗸 reactions or suppliers for all or selected 🗹 substances 6,395,450 Results Structure Match ... As Drawn (117) Click CAS Registry 80-08-0 ubstructure (6.3M) Number to open details Similarity (1,057) Click on structure to Analyze Structure Precisio open flyout window Select structure C₁₂H₁₂N₂O₂S search type Dapsone Visually explore structure similarity with a powerful new tool. Learn more about Chemscap 🖹 18K **L** 5,463 115 📜 References Suppliers Reactions **Create Chemscape Analysis** \times 80-08-0 Filter Behavior Filter by Retrieve data Exclude 12368 related to substance Search Within Results Get Substance Details Search for up to 3 structures Get Bioactivity Data within the result set. Get Reactions (5.463) 🙋 Draw Synthesize (133) Open editor with Start Retrosynthetic Analy Search a (sub)structure this structure Get References (18 within this set of substances 🕑 Edit Structure 🛛 — Reset 🕂 Get Suppliers (115) Reaction Role Reference Role Download structure, image or copy SMILES Reference Roles show which Preparation (3.1M) information was reported about Synthetic Preparation (3.1M) a substance in the literature Uses (2.8M)

Interface and References Search

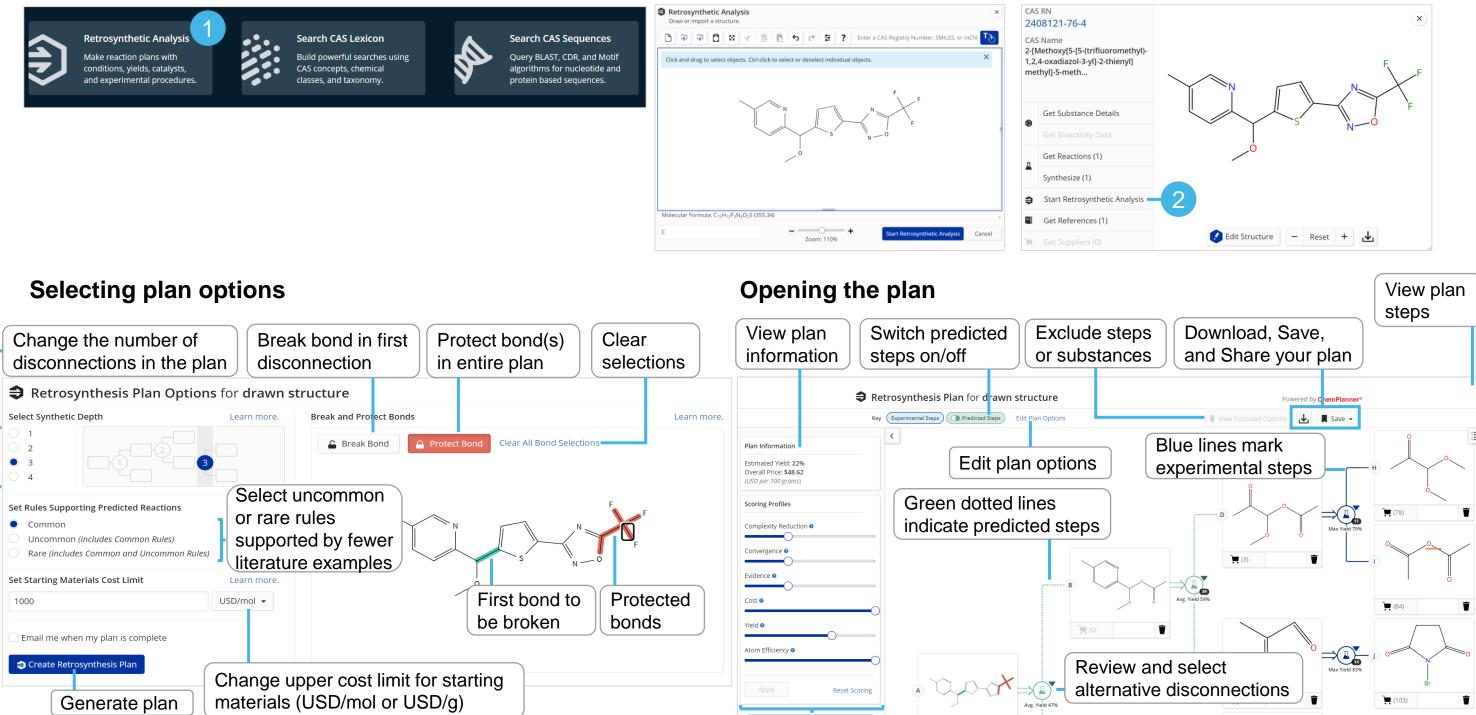


Similarity (18)		
Filter Behavior	Absolute stereochemistry shown, Rotation (+)	Absolute stereochemistry shown
Filter by Exclude	Suppliers (48) View suppliers	(484)
✓ Search Within Results	31-614-CAS-27240963 Steps: 1 Yield: 100% •••	Stereoselective process for preparing isoxazolo-quinoline- substituted cyclohexyl derivatives
 Yield 90-100% (428) 	1.1 Reagents: <u>Triethylamine</u> , <u>Diphenylphosphoryl azide</u> Solvents: <u>Toluene</u> View reaction detail	S, nee: Eli Lilly and Company
80-89% (263)	Filter reaction results	2002-03-28
70-79% (295) 50-69% (379)	Experimental Protocols	PatentPak - Full Text - Access annotated patent full-text

Retrosynthesis Planner

There are two primary ways to launch the 'Retrosynthetic Analysis' in CAS SciFinder: (1) Draw or import a structure into the retrosynthesis draw window accessed by clicking on the 'Retrosynthetic Analysis' option on the landing page. The drawn substance can be novel. (2) Click on the 'Start Retrosynthetic Analysis' option found on the substance flyout window.

Launching the tool



References search result

Performing a references search provides you with access to a full result set in

an easy-to-use interface where:

answers

- References are default sorted by relevance with customizable sorting options.
- You can focus your answer set further using filters.
- You can save searches, send a link of the results, set up alerts, or add results to a project list.
- You can quickly access full details for any of the references displayed.

View indexed View indexed		Boolean operators
substances e reactions	 "menthol and (food or "chewing gum")" Download answers Gitting - St Knowledge Graph Combine current with saved set _ O L 	You can use logical op to create precise text o
the most	Filtering: Concept: Flavor Clear All Filters	Ex: menthol and (food
Load more potentially relevant results	Excluding: Concept: Antibacterial agents × Sort answers Clear all filters	AND Both terms are p
Load All Results	407 Results Sort: Relevance ▼ View: Partial Abstract ▼ 1 Click title to open reference details Change how answers are displayed ■ ■	the document
Filter Behavior	Coencapsulation of xylitol and menthol by double emulsion followed by complex	OR Either one or both present (connect synor
Search for up to 3 text string	coacervation and microcapsule application in chewing gum By: Santos, Milla G. (a); Carpinteiro, Debora A.; Thomazini, Marcelo; Rocha-Selmi, Glaucia A.; da Cruz, Adriano G.; elect Filter by or Exclude, an select filter categories Coercepsention or more core materials in one system can improve the functionality of individual components and	NOT Excludes docum set containing the word
"oral release"	earch any text within this swer set	Ex: menthol not cigare
Search	cooling sensation and to control the release of the concentration o	Wildcards allow for m comprehensive results

logical operators cise text queries. and (food or "chewing gum")

erms are present within

ne or both terms are nect synonyms with OR)

es documents from the g the word(s) after NOT not cigarette

llow for more prehensive results Internal and right-hand truncation is possible.

Save, Alerts, Download, Share, Projects

Adjust scoring

options

Save allows to save the search and related filter settings or up to 20,000 answers. Tags can be added and used for later filtering.

Name		
Suzuki coupling		
Search Options		
🔵 Query Only	Selected Answers	All Answers (Up to 20,000)
Add Existing Tag	s (Optional)	
a_green ch	iem	
ammonia (cracking	
analytical s	study	
anticancer		
auxin trans	sport alerts	
New Tag (Option	al)	Tag Color

Alerts will re-run the underlying search and filters in a frequency you choose. Results will be available in SciFinder and an email will be sent to the recipients, including links to SciFinder results.

Alerts	
Frequency	
Weekly	•
Add Email(s)	
email@abc.com ×	
Save	

Download will transfor results to your local storage

Share has two options:

(1) Share Results allows to share with a SciFinder user identified by the email address. A message can be added.

☑ Share Results

(2) Copy Search to Clipboard stores the URL of the search in the clipboard. This URL can be shared with any SciFinder user.

🔗 Copy Search to Clipboard

Add to Project will add selected reference or substance information to a project folder. The folder content can be edited collaboratively, making projects an ideal collaboration tool when collecting research- or project-specific reference or substance data.

Add to Project	>
Project Name	
green chemistry project	
Add a Description	
Project Color	
🦲 Lime	✓ Add
Existing Projects Select up to one project	Sort: Created by You
PNs	
bicyclic pesticides	
herbicides - nicotinic acid derivatives	

Journal (141)	Full Text 🗸	Substances (2) 🖳 Reactions (0) 🐻 Citing (60) 💋 Citation Mag
Patent (263)		
Review (10)	□ 2	• ·
Clinical Trial (1)		
Conference (3)	Flavor Release Measur	rement from <mark>Gum</mark> Model System
	By: Ovejero-Lopez, Isabel; Haa	ahr, Anne-Mette; van den Berg, Frans; Bredie, Wender L. P.

* Replaces 0 to any number of characters Ex: crosslink* | alk*ne

Phrases enclosed with double quotes ("...") will be searched as a precise phrase. A search for "cell death protein" only finds results that exactly match: cell death protein.





	Download will transfer results to your local storage
Ľ ⊻	device.

Available options depend on the File Type.

ile Type Citation (.ris) Display Result Summary Result Details	Select Quantity All Results Selected Results Range (ex. 2 to 20) to
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2 references selected to	download.
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Task History	Formulations
Abstract	Analytical Methods
Concepts	Citations
Substances	

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A description can be added, and the project can be shared with SciFinder users. Its content can be downloaded.

green chemistry project :				
oject Description Edit	References (4)			
iterature for green chemistry experiments	Chitosan as a reusable solid base catalyst for Knoevenagel condensation reaction			
llaborators <u>+Add</u>	By: Sakthivel, Balasubramanian; Dhakshinamoorthy, Amarajothi Journal of Colloid and Interface Science (2017), 485, 75-80 Language: English, Database: CAplus and MEDLINE			
Add collaborators to share your project and ts content. You can grant permissions for them to view your oroject or contribute content from CAS SciFinder. This feature s intended for	In the present work, the com. available chitosan is reported as a heterogeneous solid base catalyst for Knoevenagel condensation reaction of carbonyl compounds with malononitrile under mild reaction conditions. Chitosan is characterized by powder XRD, IR and elemental anal. The catalytic activity of chitosan is evaluated in Knoevenagel condensation reaction of benzaldehyde and malononitrile as model substrates and the optimized reaction conditions are further used to expand its activity with various substrates. In addition, the catalyst stability is also examined by performing reusability, leaching experiments and it is observed that the catalyst can be reused for four times with no significant drop in its activity. Full Text Substances (30) Reactions (13) Citation Map 			

Project collaborators and their roles can be defined.

oject Collaborators	×
Add project collaborators using an email address	Add
ople with access (2)	
Jan H Baur (You)	Administrator
kfaeber@acs-i.org (Pending)	Editor 🕞
	Editor 🗸 Viewer
	Remove Access