

1. Search

	SUBSTANCES		
FEATURE	COMMENT	FEATURE	COM
Quick search as text	Enter a substance name, molecular formula or CAS number	Quick search as text	Enter
(See page 3)	in the search field and click Search .	(See page 3)	Exam
	Examples:		• p
	Atenolol		• p
	• Pt(PPh3)3		• S
	• 102625-70-7		• A
Quick search with	1. Click the Create Structure or Reaction Drawing box.	Quick search with	1. Cl
Structure or Reaction	2. Create the substance structure drawing.	Structure or Reaction	2. Cr
Drawing	For more information on using the Marvin JS structure	Drawing	Fc
(See page 3 & 4)	editor see:	(See page 3 & 4)	ec
	a. Create a Structure Query in the Search for		
	Substances Workflow.		
	b. View our <u>Tips for using ChemAxon Marvin JS</u>		
	c. Visit the ChemAxon Marvin JS website which		
	includes a MarvinJS User's Guide.		
	3. Click Transfer to query, click Search.		3. Cl
Query builder	1. Click Query builder (See page 6).	Query builder	1. Cl
(See page 5 & 6)	2. Select one of the Quick Querylets (Structure, Molecular	(See page 5 & 6)	2. Se
	Formula, CAS RN or Doc Index) under the search button.		Fc
	OR		OR
	2. Search for properties using the Search properties field		2. Se
	and Drag & Drop the property onto the Query builder .		an
	3. If you have multiple search fields, use the appropriate		3. If
	Boolean operator (see page 7).		Bo
	4. Click Search at the top of the screen and select the		4. Cl
	desired target content: e.g. Substances.		de
	Note: Click Exist to enter specific search values.		No

	REACTIONS
FEATURE	COMMENT
Quick search as text	Enter a term(s) in the search field and click Search .
(See page 3)	Examples:
	preparation of porphyrine
	phosphorylation
	Suzuki coupling
	Adler phenol oxidation
Quick search with	1. Click the Create Structure or Reaction Drawing box.
Structure or Reaction	2. Create the reaction structure drawing.
Drawing	For more information on using the Marvin JS structure
(See page 3 & 4)	editor see:
	a. Create a Reaction Query in the Search for
	Reactions Workflow.
	b. View our <u>Tips for using ChemAxon Marvin JS</u>
	c. Visit the <u>ChemAxon Marvin JS</u> website which
	includes a MarvinJS User's Guide
	3. Click Transfer to query, click Search.
Query builder	1. Click Query builder (See page 6).
(See page 5 & 6)	2. Select one of the Quick Querylets (Structure, Molecular
	Formula, CAS RN or Doc Index) under the search button.
	OR
	2. Search for properties using the Search properties field
	and Drag & Drop the property onto the Query builder .
	3. If you have multiple search fields, use the appropriate
	Boolean operator (see page 7).
	4. Click Search at the top of the screen and select the
	desired target content: e.g. Reactions .
	Note: Click Exist to enter specific search values.





Search (continued)

	LITERATURE
FEATURE	COMMENT
Quick search	Enter a term(s) in the search bar and click Search.
(See page 3)	Examples:
	 publications about quasicrystals
	 Tetrahedron, 2014, 70, 2343
	 published by Schrock
Quick search with	Note: Any structure or reaction query (see page 1) will
Structure or Reaction	primarily find substances or reactions. Any data
Drawing	point in those results has a reference, which
(See page 3 & 4)	provides additional links to documents.
	In addition you may click the documents link at the
	top of the page to view documents for the result set.
Query builder	1. Click Query builder (See page 6).
(See page 5 & 6)	2. Select one of the Quick Querylets (Structure, Molecular
	Formula, CAS RN or Doc Index) under the search button.
	OR
	2. Search for properties using the Search properties field
	and Drag & Drop the property onto the Query builder .
	3. If you have multiple search fields, use the appropriate
	Boolean operator (see page 7).
	4. Click Search at the top of the screen and select the
	desired target content: e.g. Documents .
	Note: Click Exist to enter specific search values.

	PROPERTIES
FEATURE	COMMENT
Quick search	Enter terms in the search bar and click Search.
(See page 3)	Examples:
	 boiling point of benzene
	density of quinolone
Quick search with	1. Click the Create Structure or Reaction Drawing box.
Structure or Reaction	2. Create the substance structure drawing.
Drawing	For more information on using the Marvin JS structure
(See page 3 & 4)	editor see:
	a. Create a Structure Query in the <u>Search for</u>
	Substances Workflow.
	b. View our <u>Tips for using ChemAxon Marvin JS</u>
	c. Visit the <u>ChemAxon Marvin JS</u> website which
	includes a <u>MarvinJS User's Guide</u>
	3. Click Transfer to query.
	4. Enter property (e.g. boiling point) in the search bar.
	5. Click Search.
Query builder	1. Click Query builder (See page 6).
(See page 5 & 6)	2. Select one of the Quick Querylets (Structure, Molecular
	Formula, CAS RN or Doc Index) under the search button.
	OR
	 Search for properties using the Search properties field and Drag & Drop the property onto the Query builder.
	3. Repeat for other properties as necessary.
	 A. If you have multiple search fields, use the appropriate
	Boolean operator (see page 7).
	5. Click Search at the top of the screen and select the
	desired target content: e.g. Substances .
	Note : Click Exist to enter specific search values.
	Note. Cher Exist to enter specific search values.



Quick search





Quick search with Structure or Reaction Drawing





Query builder Fields & Forms Panel





Query builder Steps





Query builder: Multiple Properties and Booleans

Reaxys	Quick search Query builder	Results Synthesis planner Histor	γ Elsevier Reaxys 🝳 🧿
난 🖆 🅤 🛍 Import Save Reset form Delete		Search > CAS C Structure Molecular Formula CAS RN Doc. Index	Search properties Q melt ×
Boiling Point = ~	Boiling Point, °C 60-80 Pressure (Boiling Point), Torr 740-760	Exist A X Q Q	 Derivative Melting Point Physical Data
Melting Point	AND OR AND NOT PROXIMITY	 AND: cor NOT: cor second NEAR: se any order NEXT: set the order PROXIMIT ensuring to 	ains data from at least one of the fields ntains data from both fields ntains the first field's data and excludes the earches the terms in close proximity, but in arches the terms in close proximity, and in



2. Results

Quick search Results Preview

Reaxys analyzes the **Quick search** query input and returns result sets in a Results Preview (note: only **Quick search** queries will present a results preview, because of the nature of query interpretation).

The result sets depend on the term(s) entered. In this case, Reaxys identified the name of a substance and searched for the substance by structure in Substance Records and by name in Document Records.

	Reaxys	Qui	ck search Query builder	Results	Synthesis planner	History	Elsevier Reaxys 🙎	0
	- Back to Quick Search		Choose a re	sult fo	or imatinib			
This option indicates there is 1 Substance Record – found through an exact search of the	1	Substances	Structure : 🔘 as drawn			Preview Results 🗸	View Results >	.]
	29020	Documents	Titles, Abstract, Keywords : i	matinib		Preview Results 🗸	View Results >]
				t	ck Preview o view the t sults of a re	op three	Click View all results	

In other cases, Search Reaxys may give options that display Reaction Records or Document Records with different combinations of search terms entered.



Quick search or Query builder Results – Substances



information on the substance.



Quick search or Query builder Results – Documents

Use Filters and Analy options to narrow your	sis -							
results.	Re	eaxys		Quic	k search	n Query builder Results Synthesis planner History Elsevier	r Reaxys 🞗 💿	
	42,183	Filters and Analysis			<	Back to Results Preview	1	
Use Index Terms to — narrow documents		Index Terms (List)		^ 9,496		2,183 Documents with 21,877 Substances, 25,512 Reactions		
by topics.		 drug antiinflammatory parameter 	-	8,104 2,982 2,845		0 selected: Umit To O Export 1. Relevan	nce 🗸 🛧 🛨 💳	 Default display is by Relevance, but other options are available.
Click links for author(s) to explore details about their		efficacy drug efficacy parameter inhibitor		2,804 2,804 2,524	1	Higgins, John D.; Gilmor, Timothy P.; Martellucci, Stephan A.; +2 others - Analytical Profiles of Drug S cipients, 2001, vol. 27, # C, p. 265 - 300 Full Text 7	Substances and Ex-	
publications and additional analysis		+ More Index Terms (ReaxysTree)		~	2	Ibuprofen Higgins, John D.; Gilmor, Timothy P.; Martellucci, Stephan A.; +2 others - Profiles of Drug Substances Related Methodology, 2001, vol. 27, p. 265 - 300 Full Text A	Cited 27 times	 Click link to see citations in Scopus.
options in Scopus.		Publication Year 2009 2011 2008	_	 2,107 2,078 2,077 	3	IBUPROFEN COMPOSITION Shen, Robert - US2008/113021, 2008, A1 Patent Family Members: WO2008/52033 A2; WO2008/52 33 A3: US2008/113021 A1: EP2094248 A2 Front Page Info V Substances V Full Text 7		 Click links to Full Text, Front Page info (for patent
		2010		2,060 1.985		Ibuprofen piconol	Feedback 💭	records), Substances, Reactions, Abstract or Index Terms.





3. Analyze and Filter

Use the Filter & Analysis panel to narrow your results:





4. Synthesis planner - Manually

Build a synthesis pathway manually or let Reaxys do it automatically (see page 14). To begin, click **Synthesize** below a structure.





Synthesis planner – Manually (continued)

1. From the Synthesis planner, click the

eoxys	Quick search Query builder Results	Synthesis planner History		Nide preparation			
ih sis Planner Edit 🖉 resis plan 1	Synthesis plan 2 Import 🕁 Seve 🖻 Export 🏠			Remove preparation			
resis plan 2				3.	Click Sho	ow conditions.	
~	HO 2	$\begin{array}{c} H_{\mathbf{C}}^{\mathbf{H}} \\ 0 = \frac{1}{5} \\ 0 = \frac$	OF N COS	5°	preparati	ental details for the sele on step is displayed, sc vn to view details of oth he synthesis plan.	rol
		R 64%	Condition	s			
+ Create new			Preparat				
			Yield	Conditions	Refere	nce	
			64%	Stage #1: 2-formyl-4-nitrophenyl methanesu With DBU In dichloromethane at 0°C for 2h atmosphere	Inert teris; p. 554	ane, Aiga; Belyakov, Sergey; Trapencieris, f +1 other - Tetrahedron, 2012 , vol. 68, # 27- 1 - 5546	
	nthesis step options (:) to	access:		Stage #2: With pyridine; phosphoryl chloride 20°C	at 0 - Full T	ext 🕇 Cited 13 times 🕇	
	conditions			Experimental Procedure 🗸	Sho	w details >	
Add pr	reparations eparations /e preparations			Stage #1: 2-formyl-4-nitrophenyl methanesu With DBU In dichloromethane at 0°C for 2h Stage #2: With pyridine; phosphoryl chloride	Edijs;	cka, Marina; Zalubovskis, Raivis; Vavers, +3 others - Letters in Drug Design and Dis , 2013, vol. 10, # 5, p. 410 - 414	s-
				20°C for 3h Experimental part	Full T	ext 🛪 Cited 1 times 🛪	
		I					



Synthesis planner - Autoplan

Let Reaxys build a synthesis pathway automatically. To begin, click **Synthesize** below a structure.





Synthesis planner – Autoplan (continued)

1. From the **Synthesis planner**, click the

plan to view.		i Show conditions	×
Reixys' Quick search Query builder Results Synthesis planner History	Cindy C	🐼 Hide preparation	
Synth sis Planner Edit 🖉 Plan 1	Undo 🀑 Redo Of 🍙	Remove preparation	
Autopian 1 2			
1 Plan 1		0.0151	
2 Plan 2		3. Click	Show conditions.
$HO = \frac{3}{96\%} + \frac{1}{9} + \frac{1}{9}$		prepa up or	arimental details for the selected aration step is displayed, scroll down to view details of other s in the synthesis plan.
	Conditions		×
+ Create new	Preparation - 2		
	Yield Condition	ons	Reference
	for 2h	ethylamine In dichloromethane at 0 - 20°C ental part	Grandane, Aiga; Tanc, Muhammet; Di Cesare Man- nelli, Lorenzo; +4 others - Journal of Medicinal Chemistry, 2015 , vol. 58, # 9, p. 3975 - 3983
2. Click the Synthesis step options (:) to access:			Full Text 🛪 Cited 5 times 🛪
Show conditions			Show details 🗲
Hide preparationsAdd preparationsRemove preparations	for 22.1	ethylamine In dichloromethane at 0 - 20°C 667h rental Procedure 🗸	Grandane, Aiga; Belyakov, Sergey; Trapencieris, Pe- teris; +1 other - Tetrahedron, 2012 , vol. 68, # 27-28, p. 5541 - 5546
			Full Text 7 Cited 13 times 7
			Show details 🔉
			Done >



5. Saving and Exporting

FEATURE	COMMENT					
Saving						
From the Query builder	 Define the query; click Save in the upper left. The query is saved to a .json file. 					
From the Synthesis planner	Not yet available.					
From the History Page + Recent Tab	The History Page + Recent tab contains a list of searches from your current Reaxys session.					
	Hover over a Recent Search, click Save , Enter a name, click Save .					
	• The Saved search can now be found under the Saved tab.					
Exporting						
From the Results Page :	 Select the document(s) you would like to export by ticking the boxes above the number of the search result. Click Export. Click Export. To view the export progress, click Exports in the lower right corner of the screen. When the export is complete, click Download. 					
From the Synthesis planner :	 Click Export. Click Export documents or Export reactions. Define Format and Additional options. Click Export. To view the export progress, click Exports in the lower right corner of the screen. When export is complete, click Download. 					