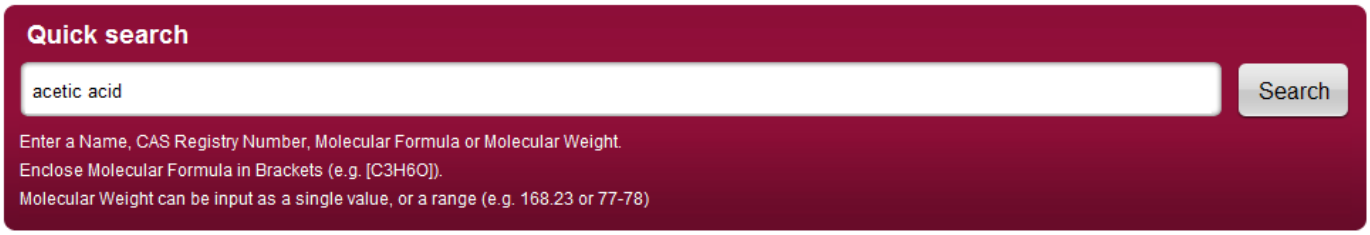
THE MERCK INDEX* Online

Chemistry's Constant Companion®

DEMONSTRATION SCRIPT

Home Page

Perform a **quick search** by typing 'acetic acid' into the search box:

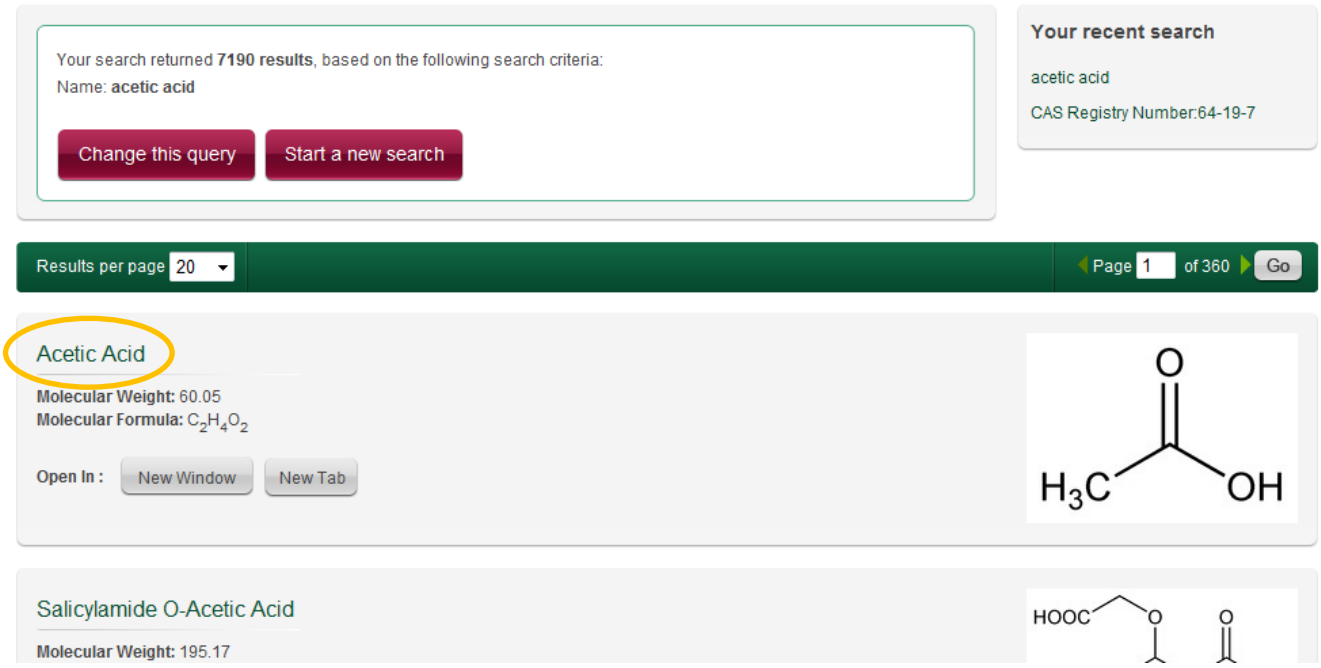


Note: If you want to show only the exact compound, type '=acetic acid'.

Search Results

This quick search has returned all **7190 records** that include the 'acetic acid' compound.

Click on 'Acetic Acid' in the search results to open the full record:

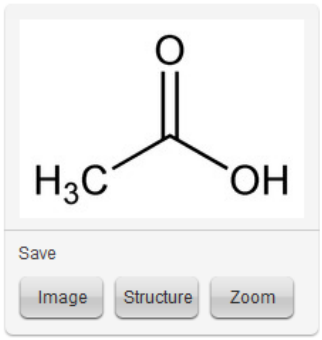


Full Record

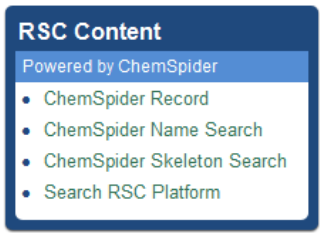
All the information from the print book is included here, such as Properties and Uses.

Additional functionality includes:

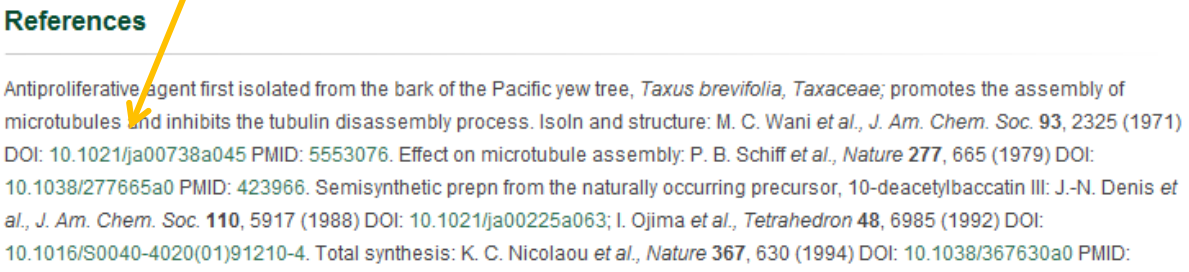
- Structure diagrams can be saved as image files or .mol files



- The RSC Content box allows users to find additional information on ChemSpider and view related journal articles & eBook chapters on the RSC Platform



- Most of the **References** link directly to the source article. To demonstrate this feature, search for '**Paclitaxel**', then click on a Reference link.

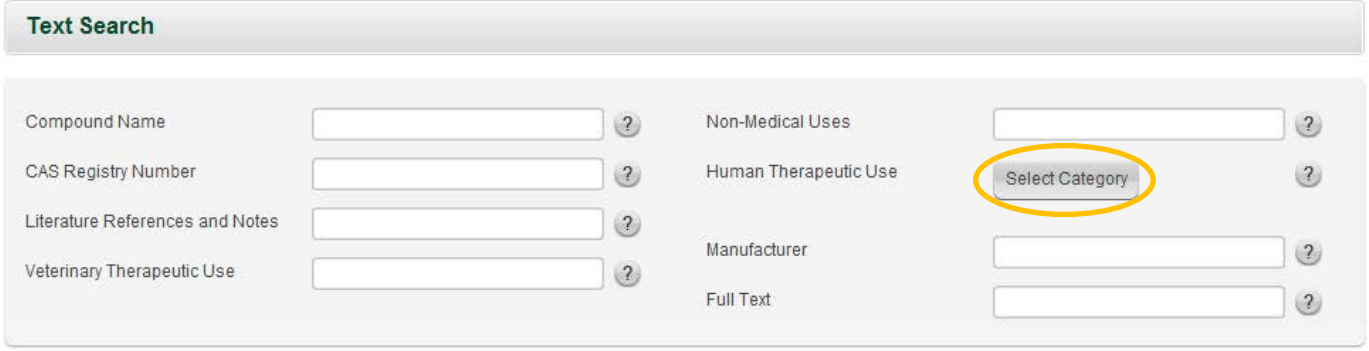


Search

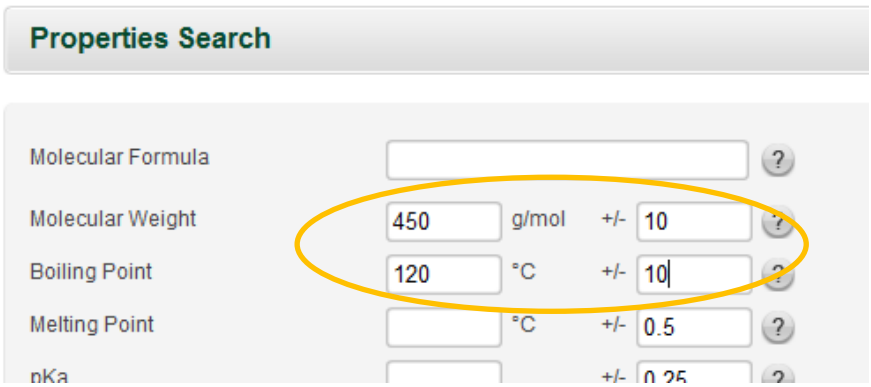
You can perform a detailed search on a number of variables, from CAS Registry Number to Melting Point.

Users may prefer to create their own, but examples are below:

Text search: Select any category within Human Therapeutic Use, such as 'Analgesics – Opoids'



Properties search: Select ‘Molecular Weight’ 450, +/- 10, and ‘Boiling Point’ 120, +/- 10, to give just one result

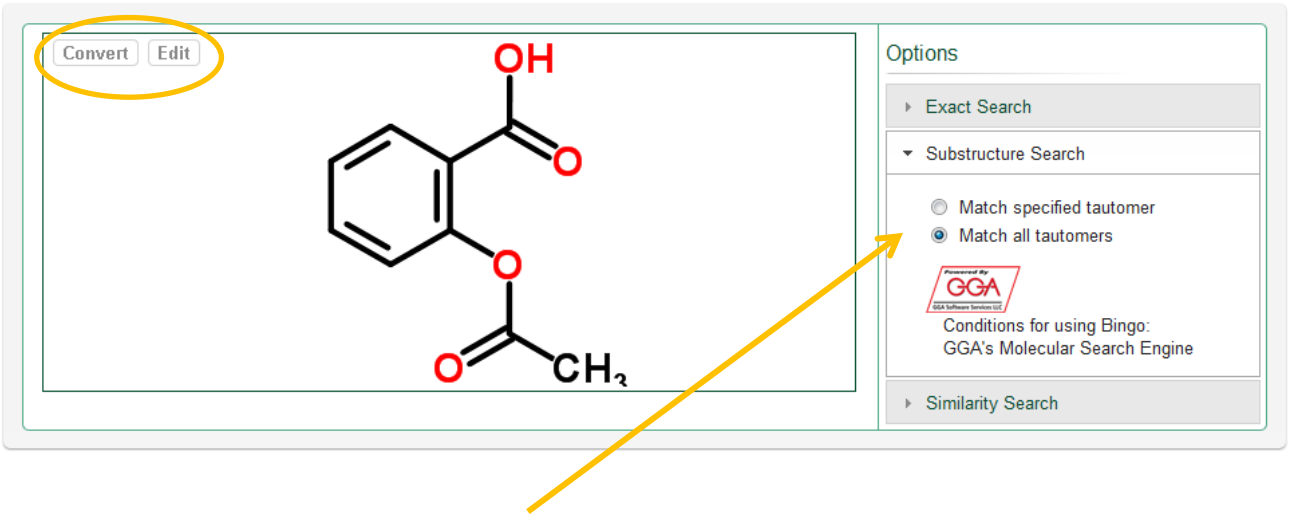


Structure Search

To search by structure, you can:

- **draw** a structure using JChemDraw or JSPaint (click ‘Edit’ to demonstrate)
- **convert** a Name, SMILES string or InChi (click on the ‘Convert’ arrow icon and input ‘Xanax’ to give an example)

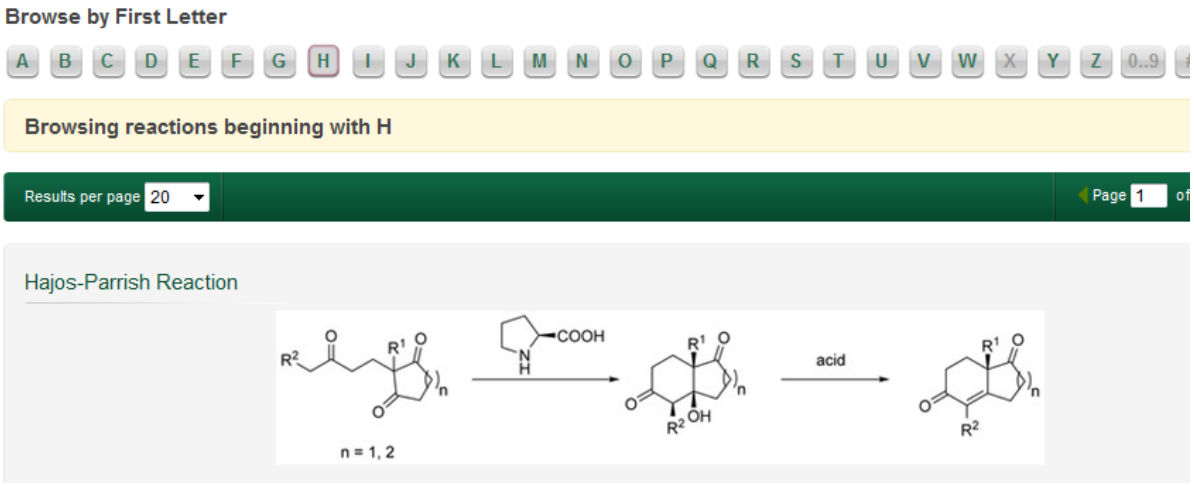
There are 3 ways to perform a structure search: Exact, Substructure, and Similarity. These are outlined on the right hand side.



To demonstrate, select **Substructure search** and ‘Match all tautomers’, then choose ‘Convert’, typing in ‘Dopamine’ to find all results that contain this structure.

Organic Named Reactions

There are over 500 named reactions listed within The Merck Index *Online* that every organic chemist needs to know. You can either search by name (type in 'Suzuki' as an example), or browse by letter:



Reference Tables

There are also various downloadable reference tables available in PDF format – this is the valuable supplementary material that you would normally find at the back of the print edition.

Further online search instructions can be found at

http://www.rsc.org/Merck-Index/help