

## Home Page

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

**Quick search**

Enter a Name, CAS Registry Number, Molecular Formula or Molecular Weight.  
Enclose Molecular Formula in Brackets (e.g. [C3H6O]).  
Molecular Weight can be input as a single value, or a range (e.g. 168.23 or 77-78)

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:

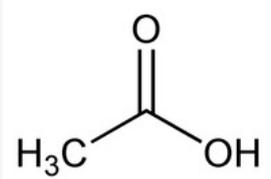
Your search returned **7190 results**, based on the following search criteria:  
Name: acetic acid

**Your recent search**  
acetic acid  
CAS Registry Number:64-19-7

Results per page  Page  of 360

**Acetic Acid**  
Molecular Weight: 60.05  
Molecular Formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

Open In:



Salicylamide O-Acetic Acid  
Molecular Weight: 195.17

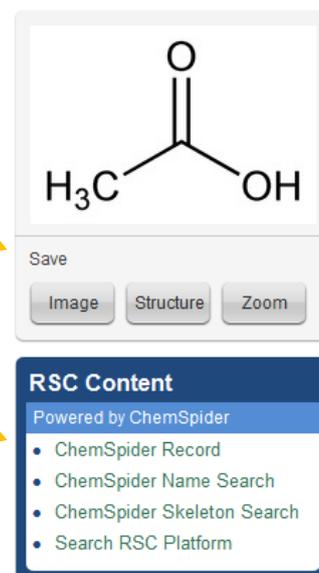


## Full Record

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.



The screenshot shows a chemical structure of acetic acid (H<sub>3</sub>C-COOH) with a 'Save' section below it containing 'Image', 'Structure', and 'Zoom' buttons. Below that is an 'RSC Content' box titled 'Powered by ChemSpider' with a list of search options: 'ChemSpider Record', 'ChemSpider Name Search', 'ChemSpider Skeleton Search', and 'Search RSC Platform'. Yellow arrows point from the text in the 'Full Record' section to these elements.

## References

Antiproliferative agent first isolated from the bark of the Pacific yew tree, *Taxus brevifolia*, *Taxaceae*; promotes the assembly of microtubules and inhibits the tubulin disassembly process. Isolation and structure: M. C. Wani *et al.*, *J. Am. Chem. Soc.* **93**, 2325 (1971) DOI: 10.1021/ja00738a045 PMID: 5553076. Effect on microtubule assembly: P. B. Schiff *et al.*, *Nature* **277**, 665 (1979) DOI: 10.1038/277665a0 PMID: 423966. Semisynthetic prepn from the naturally occurring precursor, 10-deacetylbaccatin III: J.-N. Denis *et al.*, *J. Am. Chem. Soc.* **110**, 5917 (1988) DOI: 10.1021/ja00225a063; I. Ojima *et al.*, *Tetrahedron* **48**, 6985 (1992) DOI: 10.1016/S0040-4020(01)91210-4. Total synthesis: K. C. Nicolaou *et al.*, *Nature* **367**, 630 (1994) DOI: 10.1038/367630a0 PMID:

## Search

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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 – Opioids'

**Text Search**

Compound Name	<input type="text"/>	?	Non-Medical Uses	<input type="text"/>	?
CAS Registry Number	<input type="text"/>	?	Human Therapeutic Use	<input type="button" value="Select Category"/>	?
Literature References and Notes	<input type="text"/>	?	Manufacturer	<input type="text"/>	?
Veterinary Therapeutic Use	<input type="text"/>	?	Full Text	<input type="text"/>	?

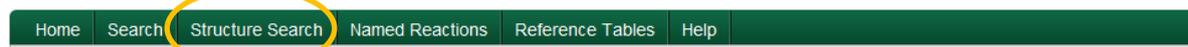
**Properties search:** Select 'Molecular Weight' 450, +/- 10, and 'Boiling Point' 120, +/- 10, to give just one result

**Properties Search**

Molecular Formula	<input type="text"/>	?
Molecular Weight	<input type="text" value="450"/> g/mol +/- <input type="text" value="10"/>	?
Boiling Point	<input type="text" value="120"/> °C +/- <input type="text" value="10"/>	?
Melting Point	<input type="text"/> °C +/- <input type="text" value="0.5"/>	?
pKa	<input type="text"/> +/- <input type="text" value="0.25"/>	?

## Structure Search

### THE MERCK INDEX Online



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.

Convert Edit

Options

- ▶ Exact Search
- ▼ Substructure Search
  - Match specified tautomer
  - Match all tautomers
- ▶ Similarity Search

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GGA Software Services Ltd.  
Conditions for using Bingo:  
GGA's Molecular Search Engine

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

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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:

Browse by First Letter

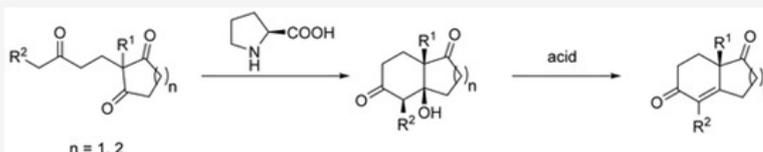
A B C D E F G **H** I J K L M N O P Q R S T U V W X Y Z 0..9

Browsing reactions beginning with H

Results per page 20

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Hajos-Parrish Reaction



## Reference Tables

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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>