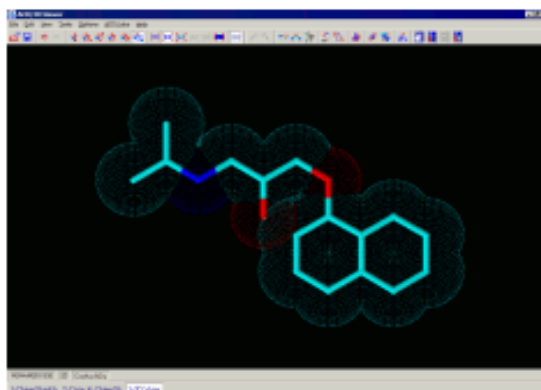
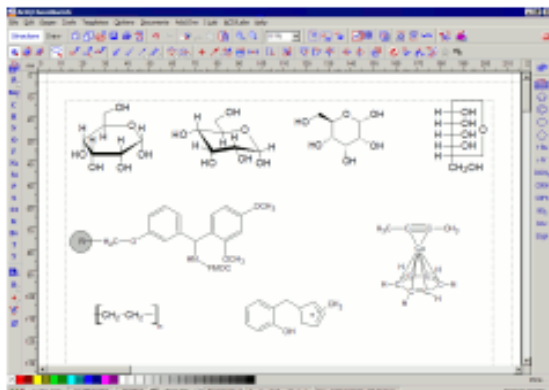


Introduction to ChemSketch



Images courtesy of ACD/ChemSketch.

Most of the things we use – furniture, cars and trains, hairbrushes, houses and organisms we interact with – insects, people, pets are all large enough for us to see with the naked eye. As we learn about our world in more detail, we learn that there are organisms that are even hundreds of times smaller than our garden spider and require a microscope to see. We learn about the dust mites, our seemingly invisible neighbors. In awe, we discover that a smooth may appear jagged and rough under the microscope, something that we could not have thought of by observation with the naked eye. Just imagine, a single cell is 10,000 times smaller than the average dog, and an atom is 100,000,000 times smaller than a single cell. Since we cannot see how an atom of hydrogen or lead actually looks like, we will use molecular visualization programs and hands-on molecular models to better understand chemistry.

In this course, we will be using ACD/Chemsketch, a free program developed by Advanced Chemistry Development, Inc., (ACD/Labs), to draw chemical structures and render or transform these structures into 3-D pictures that we can visualize.

Info Link: http://www.acdlabs.com/products/chem_dsn_lab/chemsketch/

To download Chemsketch:

- 1) Go to <http://www.acdlabs.com/download/chemsk.html>.
- 2) Click on the link that says:
“[Click Here to Download ChemSketch 11.0 Freeware](#)”

ACD/Free Stuff: ChemSketch 11.0 Freeware - Mozilla Firefox

http://www.acdlabs.com/download/chemsk.html

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ACD/ChemSketch 11.0 Freeware

NEW: Starting February 2008, ACD/ChemSketch Freeware is Updated to Version 11.0: See What's New

Advanced Chemistry Development, Inc. (ACD/Labs) is renowned for our expertise in many areas of chemistry. From industry standard systematic Nomenclature, PhysChem, and NMR prediction software to structure-enabled Spectroscopy, Spectrometry, and Chromatography data management tools. We offer an unsurpassed range of products that facilitate the research process and make teaching more memorable and rewarding.

In addition to our expert analytical, naming, and physicochemical tools, we also offer chemical drawing (ACD/ChemSketch) and databasing (ACD/ChemFolder) products. Affordable online access to many of our software products is enabled through [ACD/Labs' Online](#) service.

While our freeware version is substantial, our full-featured commercial version offers even more advanced features. [Click here](#) to view a comparison of our freeware and full-featured versions.

An [Academic Site Licensing Program](#) that covers the **commercial** versions of ACD/ChemSketch, ACD/ChemFolder, and ACD/Labs Online (i-Lab) is also available to our customers in the field of education. Through this program, students and young researchers are empowered with our modern professional software for less than the cost of an average lab manual or scientific calculator. We also donate licenses of **freeware** ACD/ChemSketch to academic and educational institutions. Read more on our [pages for Educators](#).

***** THIS VERSION IS FOR HOME AND EDUCATIONAL USE ONLY *****

[Click Here to Download ChemSketch 11.0 Freeware](#)

Download is available as a "complete package" with all manuals and its own installer: chemsk11.exe (30 MB). In addition, to help those who do not have a reliable Internet connection and cannot download the whole file at once, we have split the software into several fragments that can be re-built to obtain the complete package.

3) Fill out the information with the dark red diamond on the left side of the box and click on “**Submit Form**” on the bottom.

ACD/ChemSketch 11.0 Freeware - Mozilla Firefox

http://www.acdlabs.com/download/chemsk_download.html

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Company / Organization

Job Title

Address

City

Province / State

Postal Code / Zip

Country *

Phone

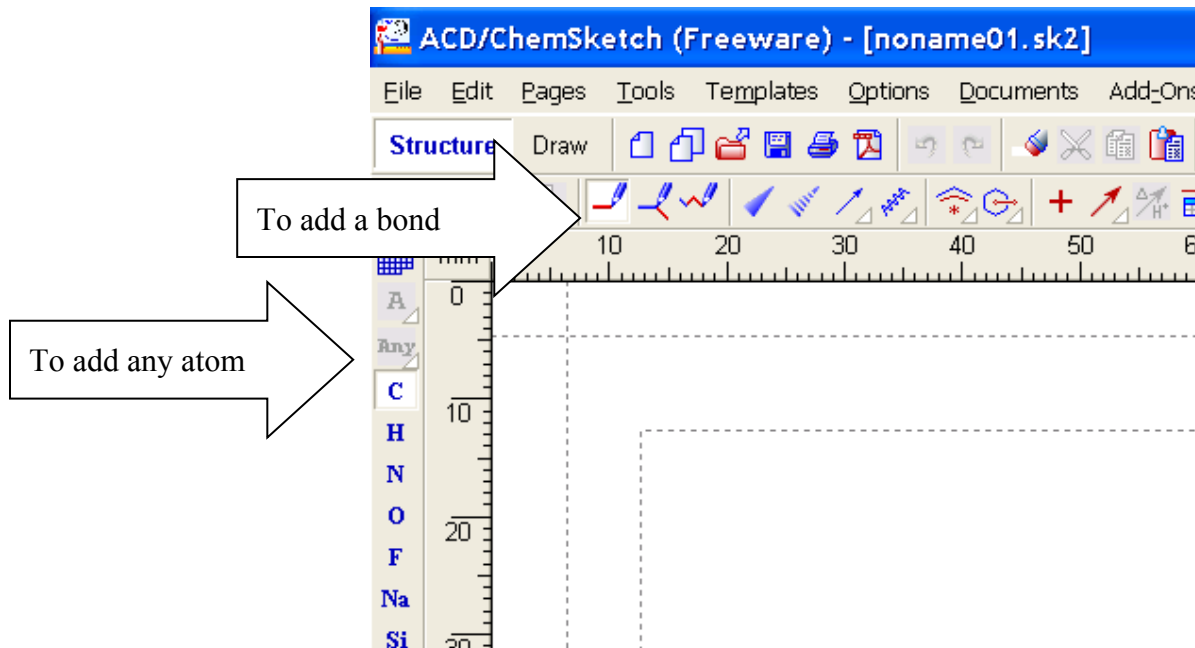
Fax

How did you hear about ACD/Labs? Choose one

Other: Please specify

4) Check your email and follow the directions in the email to get the software.

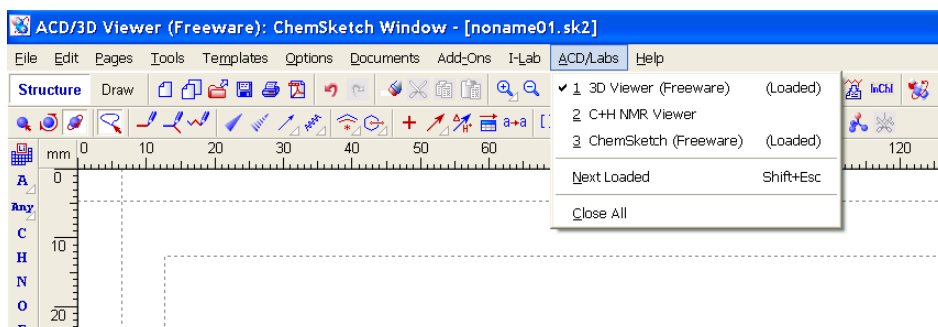
Tutorial: Using ChemSketch



1. Click on the letter of the first atom (from left side buttons) you want to draw.
2. Click on the white drawing space to put the atom there.
3. Repeat first two steps to add other atoms.
4. Click on the button with the “to add a bond” arrow pointing at it to add bonds between atoms.

To view molecules in 3D:

1. On the top menu, click on “ACD/Labs” and select “1 3D Viewer (Freeware)”



2. Click on “Tools” on the top and click on 3D optimization.



3. On the bottom of the window, click “Copy to 3D”

4. Click on 3D view to see the molecule in 3D. The molecule can be rotated with the mouse.