

# Chemistry Sources:

## A Library Quick Guide

### Library of Science and Medicine

Rutgers University Libraries principal print research collection in the field of chemistry is housed in the Chemistry Library (**Chem**) on Busch Campus (the library wing is attached to the Wright-Rieman Laboratories building). Additional chemistry books are located in the Library of Science and Medicine (**LSM**); these tend to be older editions plus a number of reference works. Both LSM and the Chemistry Library provide online access to several databases that are very important in the field of chemistry (see below). For a wide more comprehensive information, find **Research Resources**, then **Subject Research Guides** from the Rutgers Libraries home page: [http://www.libraries.rutgers.edu/rul/rr\\_gateway/research\\_guides/research\\_guides.shtml](http://www.libraries.rutgers.edu/rul/rr_gateway/research_guides/research_guides.shtml) For further information on our resources or guidance on searching a specific topic, please consult a reference librarian.

#### Find an article

**Indexes and Databases:** tell you what journal articles have been written on a subject or by a particular author and lead you to the most up-to-date research.

**Electronic Databases:** The key to the literature of chemistry is an online database called **SciFinder Scholar**, limited to Rutgers students, faculty, and staff, and accessible on selected computers in the Chemistry Library and LSM. SciFinder Scholar is the online equivalent of the older print product "Chemical Abstracts" and provides the same comprehensive coverage, from 1907 to date.

Beilstein CrossFire is an online database that covers organic chemistry literature. It is also only available on select computers in the Chemistry Library and LSM.

Rutgers current faculty, staff and students can access these databases from off-campus; view the specific instructions included on our Indexes and Databases page, under these two database names.

Another tool for searching the literature on chemistry is **Google Scholar**. Google Scholar is a free database on the web and provides access to many full-text articles. Make sure to connect through the libraries website to Google Scholar for easier access to full-text articles.

#### Journals

The **Chemistry Library** contains the principal research journal collection in the field of chemistry. However, the majority of the most important chemistry journals are now available online and can be accessed via IRIS, our online catalog (<http://www.iris.rutgers.edu>). If the journal title is not found in IRIS, then check the A-Z list under electronic journal lists ([http://www.libraries.rutgers.edu/rul/rr\\_gateway/ejournals/ejournals.shtml](http://www.libraries.rutgers.edu/rul/rr_gateway/ejournals/ejournals.shtml)).

Some important series such as **Advances in Chemical Physics (CHEM/ QD453.A27)** are cataloged as books.

## Internet Sources

The following is a very selective list of internet sources that provide information on chemistry.

- <http://www.acs.org>  
**American Chemical Society**
- <http://www.indiana.edu/~cheminfo/>  
**CHEMINFO: Chemical Information Sources**
- <http://www.chemweb.com/preprint>  
**Academic and commercial chemistry information**

## Reference Books

Reference Books are shelved in the Reference section of **LSM** on the 1<sup>st</sup> floor and are identified by the notation **LSM REF** on their Call Number. The following are a few of the chemistry reference books at **LSM** and the **Chemistry Library**.

### Dictionaries/Encyclopedias

- Dictionary of Organic Compounds; **LSM REF QD251.D49**
- Encyclopedia of Analytical Science; **LSM REF QD71.5.E53 v.1 through v.10**
- Encyclopedia of Chemical Processing and Design; **LSM REF TP9.E66**
- Polymer Science Dictionary; **LSM REF QD380.3.A52**
- Ullmann's Encyclopedia of Industrial Chemistry; **LSM REF TP9.U615**
- Kirk-Othmer's Encyclopedia of Chemical Technology; **CHEM REF TP9.K54**

### Handbooks

- CRC Handbook of Chemistry and Physics; **LSM REF QD65.H3** (also at reserve)
- Comprehensive Analytical Chemistry; **LSM REF QD75.W75**
- Comprehensive Organic Synthesis; **CHEM REF QD262.C535 1991**
- Perry's Chemical Engineer's Handbook; **LSM REF TP151.P45**
- Physical Chemistry Source Book; **LSM REF QD451.P49**
- Polymer Handbook; **CHEM REF QD388.P65**

### Data & Tables

- Handbook of Data on Organic Compounds; **CHEM REF QD257.7.H36**
- Physical and Thermodynamic Properties of Pure Chemicals; **LSM REF TP200.D39**
- TRC Spectral Data; **LSM REF QD95.T7336**
- TRC Thermodynamic Tables- Hydrocarbons; **LSM REF QD511.8.T733**
- TRC Thermodynamic Tables- Non-Hydrocarbons; **LSM REF QD511.8.T734**
- Solubilities, Inorganic and Metal Organic Compounds; **CHEM REF QD66.S4**
- The Sigma-Aldrich Library of Chemical Safety Data; **LSM REF TP149.S54 1985**

### Test Methods

- OSHA Analytical Methods Manual; **LSM REF QD76.O79**