DELTA STATE UNIVERSITY

A guide to finding information in the Roberts-LaForge Library

Subject Guide to Chemistry

Browsing the Chemistry Collection

The call number heading for chemistry is QD. In the event that you do not find what you are looking for by simply browsing, please consult Merlin, the online catalog. Below is a table of the Library of Congress Classification scheme for chemistry.

QD 1-65	General	QD 241-441	Organic Chemistry (including Biochemistry)
QD 71-142	Analytical Chemistry	QD 450-801	Physical and Theoretical Chemistry
QD 146-197	Inorganic Chemistry	QD 901-999	Crystallography

Selected Reference Books

- **The Basics of Chemistry** [QD 33.2 .M94 2003 Ref] – aimed at the novice, this work introduces basic chemistry concepts to first-year chemistry students.
- **Chemistry: Foundations and Applications** [QD 4 .C48 2004 Ref 4 vols.] – thorough entries on elements, "chemical ideas and concepts," and even chemist biographies. For further study, bibliographies are included after each entry.
- **Concise Encyclopedia of Biochemistry and Molecular Biology** [QD 415 .A25 B713 1997 Ref] – articles are generally brief and written with both scholars and students in mind. Pertinent illustrations (charts, diagrams) are provided.
- **CRC Handbook of Chemistry and Physics** [QD 65 .H3 Year Ref] – popular reference source that includes definitions, tables, diagrams, and charts of valuable chemical information. The most recent edition is shelved in Ready Reference.
- **Encyclopedia of Inorganic Chemistry** [QD 148 .E53 2005 Ref 10 vols.] – Voluminous A-Z treatment of all topics connected to inorganic chemistry.
- **How to Find Chemical Information** [QD 8.5 .M34 1998 Ref] – an informative guide on the search process and tools used to find chemical information. Topics include search strategy, the Internet, online databases, indexes, and more.
- **McGraw-Hill Encyclopedia of Science and Technology** [Q 121 .M3 2007] – a staple of science collections, this set includes over 7,000 entries. Bibliographies are included for each entry.
- **Sadtler Handbooks of Infrared Spectra and Ultraviolet Spectra** [QC 453 .S73 1978 Ref and QC 459 .S25 1979 Ref] – these two handbooks serve two purposes. First, they provide students of introductory organic chemistry courses easy access to spectra of several organic compounds. Secondly, it provides those in the industry a source for qualitative and quantitative characterizations for compounds.
- **Van Nostrand's Encyclopedia of Chemistry** [QD 4 .V36 2005] – in its 5th edition, this popular title provides an alphabetical list of over 2,000 chemistry topics. Additional readings are available for each entry.

Selected Databases

- **CA, Chemical Abstracts** (1967-present) [STN Easy] Password – includes coverage in international journals, patents, technical reports, books, conference proceedings, and dissertations in chemistry, biochemistry, chemical engineering, and related sciences. (Note: *This database is only available during off-peak hours: Sunday - Thursday 5-10pm, all day Saturday*.)
- **CAS Registry** (1957-present) [STN Easy] Password Full-Text – is a chemical structure and dictionary database of substance records that are produced as new substances and identified by the Chemical Abstracts Service (CAS) Registry System. (Note: *This database is only available during off-peak hours: Sunday - Thursday 5-10pm, all day Saturday*.)
- **CIN Chemistry Industry Notes** (1974-present) [STN Easy] Password – covers worldwide business events in the chemical industry; contains bibliographic information, indexing, abstracts, chemical names, and CAS Registry Numbers. (Note: *This database is only available during off-peak hours: Sunday - Thursday 5-10pm, all day Saturday*.)
- **General Science Collection** [EBSCOhost] – Full text of over 60 popular science journals and magazines.
- **Scirus** (1930-present) Off-Campus – scholarly and authoritative journal and Internet literature for computer science, math, biology, chemistry, and space. Also includes material from ChemWeb.com and the Chemistry Preprint Server.

Along with the subject-specific databases listed above, please consult the interdisciplinary databases such as **Academic Search Premier** and **MasterFile**. These databases provide substantial amounts of useful information on many topics.

Selected Web Sites

- **Chemfinder** [http://chemfinder.cambridgesoft.com] – As the title might suggest, this site is dedicated to finding chemical compounds. By entering in a chemical name, CAS number, molecular formula, or molecular weight, you can locate the common characteristics and structure of that chemical. An added bonus to this site is the "largest [available] single list of chemical information sites." Searching is free, however registration is required.
- **ChemIndustry Search Engine** [http://www.chemindustry.com] – A useful tool in navigating the Web for resources in chemistry. Set up much like Yahoo, this search engine provides categorized access to different areas such as chemical resources, careers, equipment, and academic institutes. A keyword search is also available if browsing the categories does not help. This site is updated daily.
- **Chemsitry.org** [http://portal.acs.org] – Sponsored by the American Chemical Society, this site has got something for both professional and student. For professionals, find articles, career information, publications, and several helpful online databases and directories. For students, links are broken down by education level. Many of the student-oriented resources can be found by clicking on the "Education" tab.
- **NIST Chemistry WebBook** [http://webbook.nist.gov/chemistry] – "Provides thermochemical, thermophysical, and ion energetics data compiled by NIST under the Standard Reference Data Program. The National Institute of Standards and Technology (NIST) uses its best efforts to deliver a high quality copy of the Database and to verify that the data contained therein have been selected on the basis of sound scientific judgment."
- **Organic Chemistry Resources Worldwide** [http://www.organicworldwide.net] – A well designed resource for organic chemists. This site delves into the actual techniques, workings, and literature of organic chemistry.
- **WebElements Periodic Table** [http://www.webelements.com] – Periodic table with a profile and photograph of each element.