

Chemistry Information: Answers to Common Questions

1. Where to find the definition of chemistry terms?

Title	Call Number/Address
The Merck Index	Reference RS51 .M4 1996
Comprehensive dictionary of physical chemistry	Reference QD5 .C4555 1992
Dictionary of chemistry	Reference QD5 .H837 1999
Glossary of chemical terms	Reference QD5 .H34 1982
Hawley's condensed chemical dictionary	Reference QD5 .C5 2002
A dictionary of named effects and laws in chemistry, physics, and mathematics	Reference QD5 .B32 1980
McGraw-Hill Dictionary of Scientific and Technical Terms. [free demo and subscription]	http://www.accessscience.com/Dictionary/

2. Where to find Registry Numbers and physical property data for chemical substances?

Title/Address	Call Number/Description
CRC handbook of chemistry and physics	Reference QD65 .C82 2000/01
Dictionary of Organic Compounds	Reference QD246 .D5 1996
Handbook of inorganic chemicals	Reference QD155.5 .P37 2003
Handbook of physical constants	Reference Q199 .C58
Lange's handbook of chemistry	Reference QD65 .L36 1999
Names, synonyms, and structures of organic compounds: a CRC reference handbook	Reference QD291 .N36 1995
The Merck Index	Reference RS51 .M4 1996
Medline	Internet Resource
PhysProp Database [demo 25,000 free. subscription] The web demo version is searchable only by CAS registry number.	http://esc.syrres.com/interkow/physdemo.htm
NIST Chemistry WebBook [free]	http://webbook.nist.gov/chemistry/
Chem ID plus [free]	http://chem.sis.nlm.nih.gov/chemidplus/cmplxqry.html
WebElements Periodic Table http://www.webelements.com/	WebElements is a hypertext-linked collection of property data on the first 112 elements (and growing...) including: general, chemical, physical, nuclear, electronic, biological, geological, crystallographic, reduction potential, isotopic abundances, electronic configurations, ionization enthalpy data and additional textual information, especially on the history of the elements.

3. Where to find synthesis/preparation information for chemical substances?

Title/Address	Call Number/Description
Dictionary of Organic Compounds	Reference QD246 .D5 1996
Encyclopedia of reagents for organic synthesis	Reference QD77 .E53 1995

Handbook of inorganic chemicals	Reference QD155.5 .P37 2003
Names, synonyms, and structures of organic compounds: a CRC reference handbook	Reference QD291 .N36 1995
The Merck Index	Reference RS51 .M4 1996
Organic syntheses : an annual publication of satisfactory methods for the preparation of organic chemicals http://www.orgsyn.org/	Organic Syntheses presents to the organic chemistry community detailed experimental methods in a standard format for the synthesis of organic compounds. It can be searched by name, formula, structure and CAS registry number.

4. Where to find spectra data for chemical substances?

Title/Address	Call Number/Description
Encyclopedia of spectroscopy	Reference QD95 .P47 1995
Encyclopedia of spectroscopy and spectrometry	Reference QD95 .E55 2000
Handbook of proton-NMR spectra and data	Reference QD96.N8 H253 1985
The Aldrich library of infrared spectra	Reference QD96.I5 P67 1981
The Aldrich library of NMR spectra	Reference QD96.N8 P68 1983
NIST Physical Reference Data [free] http://physics.nist.gov/PhysRefData/contents.html	This site compiles and organizes many kinds of critically evaluated and up-to-date physical data, with searchable bibliographic sources. Physical constants, atomic and molecular spectroscopic data, ionization data, x-ray and gamma-ray data, nuclear physics data, and condensed matter data, etc.
Spectra data: http://spectra.galactic.com/SpectraOnline/Default_ns.htm	Spectra Online is a FREE web-based spectral database service for the chemical research community. The database spans many different classes of compounds including drugs, common chemicals, polymers, petroleum products among others. It includes spectral data from many different instrument types such as FT-IR, UV-Vis, NIR, Raman, MS, NMR (¹³ C, ¹ H and others), XRD and more.
NIST Chemistry WebBook	http://webbook.nist.gov/chemistry/

5. How to find chemical resources:

Title/Address	Call Number/Description
Chemical information sources	Reference QD8.5 .W54 1991
Chemical publications, their nature and use	Reference QD8.5 .M44 1982
Directory of research in chemistry at primarily undergraduate institutions	Reference QD47 .R47
How to find chemical information : a guide for practicing chemists, educators, and students	Reference QD8.5 .M34 1987
World databases in chemistry	Reference QD8.3 .W67 1996
ChemInfo: http://www.indiana.edu/~cheminfo/	It will help you to find and learn how to use chemistry information.
Internet Chemist: http://www.vts.rdn.ac.uk/tutorial/chemistry/	A free "teach yourself" tutorial on Internet information skills for chemists from the Resource Discovery Network. This will help you to find and learn how to use chemistry information. Other subjects available also.

6. How to find other information related to chemistry:

Title/Address	Call Number/Description
American chemists and chemical engineers	Reference QD21 .A43
Nobel laureates in chemistry, 1901-1992	Reference QD21 .N63 1993
Women in chemistry and physics: a biobibliographic sourcebook	Reference QD21 .W62 1993
Winners of the Nobel Prize in Chemistry: http://www.almaz.com/nobel/Chemistry.html	This site lists the names of the Nobel Prize winners in chemistry and the achievements for which they won the prize, from 1901 to 2003, with a little biographical information on the winners, and more Web links.

7. Where to find information related to scientific style:

Title/Address	Call Number/Description
Scientific papers and presentations	T11 .D324 1997
The ACS style guide : a manual for authors and editors	QD8.5 .A25 1986
Writing the laboratory notebook	Q180.58 .K36 1985
Guides to writing for chemistry: http://www.bris.ac.uk/is/subjects/chemistry/quotereferences.html	A link to a downloadable guide is on the Quoting references and writing page.

8. More electronic resources:

Category	Title/Address	Description
<i>Chemical Suppliers</i>	Fisher Scientific https://www1.fishersci.com/index.jsp	The Fisher chemical catalog is searchable by name, molecular formula or CAS Registry Number, and Materials Safety Data Sheets (MSDS) are available online linked to the catalog record.
	Sigma-Aldrich Chemical Co. http://www.sigmaaldrich.com/	Sigma-Aldrich Chemical's web site features crudely searchable separate catalogs for Sigma, Aldrich and Fluka. It also has information on Sigma's biochemical lines and SAF bulk chemicals, product information sheets for Sigma chemicals and the full text of recent issues of Aldrichimica Acta.
<i>Chemical Equipment Suppliers</i>	Beckman Instruments, Inc. http://www.beckman.com/Default.asp?bhfv=5	Beckman Coulter makes products that are used in hospital laboratories, physicians' offices and group practices. The company provides a variety of systems for medical research, drug discovery and biotechnology applications.
	Omega Engineering, Inc. http://www.omega.com/	Manufacturers of a wide variety of sensors and control devices.
<i>Chemical Software Suppliers</i>	CambridgeSoft: http://www.camsoft.com/	CambridgeSoft (formerly Cambridge Scientific Computing) produces a wide variety of applications for desktop chemical computing, including ChemOffice, ChemDraw and ChemFinder. They also provide the ChemFinder WebServer free Internet database of chemical substance information.
	Oxford Molecular Group: http://www.accelrys.com/about/oxmol.html	Manufacturers of molecular design software. This page also has product information for CAChe Scientific, a subsidiary which produces structure-property relationship software.