

Sources in

CHEMISTRY & BIOCHEMISTRY

This guide lists a selection of the more important sources of information on Chemistry & Biochemistry available at Concordia Libraries. It includes material held in the Webster Library (WEB) on the Sir George Williams Downtown Campus, in the Vanier Library (VAN) on the Loyola Campus and/or available online. Most materials are located in the Reference area (REF). **This is not a complete list.** Additional resources may be found by searching CLUES, the library catalogue.

For more information, consult the **Research Guides by Subject** available on the Libraries' Web site at <http://library.concordia.ca/research/subjects/> or contact the reference librarian.

Guides to the Literature

Chemical Publications: Their Nature & Use	REF QD 8.5 M44 1982 VAN
How to Find Chemical Information	REF QD 8.5 M34 1998 VAN WEB
Information Sources in Chemistry	QD 8.5 I47 1992 VAN 3 rd floor

Guides to Writing Papers in Chemistry

ACS Style Guide	REF QD 8.5 A25 2006 VAN
Scientific style and format : the CSE manual for authors, editors, and publishers	REF T 11 S386 2006 VAN

Dictionaries - Translation

Compendium de Terminologie Chimique et Lexique Anglais/Français	REF QD 5 R52 1993 VAN
Dictionary of Chemistry & Chemical Technology in Japanese, English, Chinese	REF QD 5 D53 1989 VAN
Patterson's German-English Dictionary for Chemists	REF QD 5 P3 1991 VAN

Dictionaries

Biotechnology from A to Z	REF TP 248.16 B33 2004 VAN
Chemical Tradename Dictionary	REF TP 9 A73 1993 VAN
Comprehensive Dictionary of Physical Chemistry	REF QD 5 C4555 1992 VAN
Concise Etymological Dictionary of Chemistry	REF QD 5 B48X WEB
Dictionary of Biochemistry and Molecular Biology	REF QP 512 S73 1989 VAN
Dictionary of Chemistry (through Oxford Reference Online Premium)	ONLINE
Dictionary of Colloid & Surface Science	QD 549 B413 1990 VAN 3 rd floor
Dictionary of Concepts in NMR	REF QD 96 N8H65 1992 VAN
Dictionary of Electrochemistry	QD 552.5 D37 VAN 3 rd floor WEB REF
Dictionary of Named Effects & Laws in Chemistry, Physics & Mathematics	REF Q 123 B32 1980 VAN WEB
Encyclopedic Dictionary of Chemical Technology	REF TP 9 N64 1993 VAN
Gardner's Chemical Synonyms & Trade Names	REF TP 9 G286 1999 VAN
Glossary of Chemical Terms	QD 5 H34 1982 VAN 3 rd floor WEB REF



Hawley's Condensed Chemical Dictionary
IUPAC Nomenclature of Inorganic Chemistry
Dictionary of Toxicology
Named Organic Reactions

[Oxford Dictionary of Biochemistry and Molecular Biology](#)

Polymer Science Dictionary

REF QD 5 C5 2007 VAN
REF QD 159 I52 VAN
REF RA 1193 D55 1998 VAN
QD 291 L3813 2000 VAN 3rd floor
REF QP 512 O94 2006 VAN
ONLINE
REF QD 380.3 A52 1989 VAN

Encyclopedias

Concise Encyclopedia Biochemistry & Molecular Biology
Concise Encyclopedia of Industrial Chemical Additives
Electron Transfer in Chemistry – 5 vol.
Elements
Encyclopedia of Analytical Chemistry – 15 vol.
Encyclopedia of Analytical Science – 10 vol.
Encyclopedia of Biological Chemistry – 4 vol.
Encyclopedia of Catalysis – 6 vol.
Encyclopedia of Chemical Physics and Physical Chemistry – 3 vol.
[Encyclopedia of Chromatography](#) – 2 vol.
Encyclopedia of Computational Chemistry – 5 vol.
Encyclopedia of Electrochemistry of the Elements – 15 vol.
[Encyclopedia of Inorganic Chemistry](#) – 8 vol.
Encyclopedia of Polymer Science & Technology – 16 vol.
[Encyclopedia of Spectroscopy and Spectrometry](#) – 3 vol.
Encyclopedia of Supramolecular Chemistry – 2 vol.
Encyclopedia of the Alkaloids – 3 vol.
Encyclopedia of Toxicology – 3 vol.
[Kirk-Othmer Encyclopedia of Chemical Technology](#)
McGraw-Hill Encyclopedia of Science & Technology – 20 vol.
Polymeric Materials Encyclopedia – 12 vol.
[Ullmann's Encyclopedia of Industrial Chemistry](#) – 25 vol.

REF QD 415 A25B713 1997 VAN
REF TP 201 A84 1991 VAN
REF QD 63 O9E44 2001 VAN
QD 466 E48 1998 VAN 3rd floor
REF QD 71.5 E52 2000 VAN
QD 71.5 E53 1995 VAN 3rd floor
REF QD 415 A25E53 2004 VAN
REF QD 505 E53 2003 VAN
REF QD 451 E53 2001 VAN
ONLINE
REF QD 39.3 E46E53 1998 VAN
REF QD 551 B37 VAN
ONLINE
REF TP 1110 E48 2007 VAN
ONLINE
REF QD 876 E53 2004 VAN
QD 421 G54 VAN 3rd floor
REF RA 1193 E53 2005 VAN
REF TP 9 E685 1991 WEB
ONLINE
REF Q 121 M3 2002 WEB
REF TP 1110 P65 1996 VAN
ONLINE

Treatises

Treatises are multi-volume publications that cover, in detail, a particular field of chemistry.

Alkaloids: Chemistry and Pharmacology – 73 vol.
Beilstein Handbook of Organic Chemistry – multi-part
Biochemical Preparations – 13 vol.
Chemistry of Heterocyclic Compounds – 65 vol.
Comprehensive Analytical Chemistry – 29 vol.
Comprehensive Biochemistry – 46 vol.
Comprehensive Coordination Chemistry II – 10 vol.
Comprehensive Heterocyclic Chemistry – 8 vol.
Comprehensive Inorganic Chemistry – 5 vol.
Comprehensive Medicinal Chemistry – 6 vol.

REF QD 421 M3 VAN
REF QD 251 B42B45 VAN
QP 509 B5 VAN 3rd floor
REF QD 400 C5 VAN 3rd floor
QD 75 W75 VAN 3rd floor
REF QD 415 F54 VAN
REF QD 474 C65 2004 VAN
QD 400 C65 1984 VAN 3rd floor
REF QD 151.2 C64 VAN
REF RS 402 C65 1990 VAN

Comprehensive Natural Products Chemistry – 9 vol.	REF QD 415 C63 1999 VAN
Comprehensive Organic Chemistry – 6 vol.	REF QD 245 C65 VAN
Comprehensive Organometallic Chemistry II – 14 vol.	REF QD 411 C652 1995 VAN
Comprehensive Supramolecular Chemistry – 11 vol.	REF QD 411 C66 1996 VAN
Comprehensive Treatise on Inorganic & Theoretical Chemistry – 16 vol.	REF QD 31 M52 VAN
Inorganic Reactions and Methods – 18 vol.	REF QD 501 I623 1986 VAN
Inorganic Syntheses – 34 vol.	REF QD 151 A115 VAN
Methods of Biochemical Analysis – 49 vol.	QD 271 M4 VAN 3 rd floor
Rodd's Chemistry of Carbon Compounds – 5 multi-part vol.	REF QD 251 R6 1964 VAN
Standard Methods of Chemical Analysis (vol. 1: The Elements)	REF QD 131 S68 1975b VAN

Handbooks - Major Sources of Chemical Data

CRC Handbook of Chemistry & Physics (latest at VAN REF desk)	REF QD 65 H3 VAN WEB ONLINE
CRC Handbook of Data on Organic Compounds – 9 vol.	REF QD 257.7 H36 1989 VAN
Dictionary of Inorganic Compounds – 7 vol.	REF QD 148 D53 1992 VAN
Dictionary of Organic Compounds – 9 vol.	REF QD 476 D5 1996 VAN
Dictionary of Substances and their Effects – 7 vol.	REF RA 1193 D53 VAN ONLINE
Handbook of Tables for Organic Compound Identification	QD 291 R28 1967 VAN 3 rd floor WEB REF
Lange's Handbook of Chemistry	REF QD 65 L36 VAN WEB
Merck Index: an Encyclopedia of Chemicals, Drugs & Biologicals (latest at REF desk)	REF RS 51 M4 2013 VAN WEB ONLINE

Handbooks – Specialized Topics

Biochemical Engineering & Biotechnology Handbook	REF TP 248.3 A853 1991 VAN
CRC Handbook of Basic Tables for Chemical Analysis	REF QD 78 B78 1989 VAN
CRC Handbook of Chromatography – 2 vol.	REF QD 117 C5Z94 VAN WEB
CRC Handbook of Laboratory Safety	REF QD 51 H27 1990 VAN
CRC Handbook of Organic Photochemistry and Photobiology	REF QD 719 C73 2012 VAN
CRC Handbook of Solid State Electrochemistry	QD 478 C74 1997 VAN 3 rd floor
CRC Handbook Series in Inorganic Electrochemistry – 6 vol.	REF QD 557 C73 VAN
Dictionary of Alkaloids	REF RS 431 A53D53 2010 VAN
Dictionary of Analytical Reagents	REF QD 77 D498 1993 VAN
Dictionary of Carbohydrates	REF QP 701 C294 2006 VAN
Dictionary of Organometallic Compounds – 3 vol. + suppl.	REF QD 411 D53 1984 VAN
Dictionary of Organophosphorus Compounds	QD 412 P1E36 1988 VAN 3 rd floor
Enzyme Handbook – 17 vol.	REF QP 601 E5158 1990 VAN
Gels Handbook – 4 vol.	REF QD 549 G35 2001 VAN
Handbook of Analytical Instruments	REF QD 53 K43 2007 VAN WEB
Handbook of Aqueous Solubility Data	REF QD 257.7 Y35 VAN ONLINE
Handbook of Biochemistry and Molecular Biology	REF QH 345 H347 2010 VAN
Handbook of Chemical & Biological Sensors	REF TP 159 C46H36 1996 VAN
Handbook of Electrochemistry	REF QD 553 H37 2007 VAN ONLINE
Handbook of Enzyme Inhibitors	REF QP 601.5 Z64X 1989 VAN
Handbook of Heterogeneous Catalysis – 5 vol.	REF QD 505 H34 1997 VAN

Handbook of Molecular Physics and Quantum Chemistry – 3 vol.	REF QD 461 H25 2003 VAN
Handbook of Natural Products Data (Diterpenoid & Steroidal Alkaloids)	REF QD 415.7 R34 1990 VAN
Handbook of Organometallic Compounds	REF QD 411 Y8313 VAN WEB
Handbook of Polycyclic Aromatic Hydrocarbons	QD 341 H9H317 1983 VAN 3 rd floor
Handbook of Surface and Colloid Chemistry	REF QD 508 H36 2003 VAN
Handbook of Toxicology	REF RA 1215 C73 2002 VAN
Industrial Solvents Handbook	REF TP 247.5 I53 1998 VAN
Phytochemical Dictionary: a Handbook of Bioactive Compounds from Plants	REF QK 898 B54P48 1993 VAN
Practical Handbook of Biochemistry & Molecular Biology	REF QP 514.2 P73 1989 VAN
Surface Crystallographic Information Service: a Handbook of Surface Structures	REF QD 921 S87 1987 VAN

Handbooks - Nomenclature

Compendium of Chemical Terminology: IUPAC Recommendations	QD 5 C455 1997 VAN 3 rd floor
Guide to IUPAC Nomenclature of Organic Compounds	QD 291 I57 1993 VAN 3 rd floor
IUPAC Nomenclature of Inorganic Chemistry	REF QD 159 I52 VAN
Principles of Chemical Nomenclature: a Guide to IUPAC Recommendations	QD 7 L44 1998 VAN 3 rd floor

Tables

CODATA Key Values for Thermodynamics	REF QD 504 C62 1989 VAN
Comprehensive Handbook of Chemical Bond Energies	REF QD 461 L86 2007 VAN
Critical Stability Constants – 6 vol.	REF QD 503 M37 VAN
Data for Biochemical Research	QP 520 D37 1986 VAN 3 rd floor
Dissociation Constants of Organic Bases in Aqueous Solution	REF QD 273 P35 VAN WEB
International Critical Tables – 8 vol.	REF Q 199 N3 VAN WEB ONLINE
Ionisation Constants of Inorganic Acids & Bases in Aqueous Solution	REF QD 561 P45 1982 VAN
Landolt Bornstein Numerical Data (Series)	QC 61 L33 VAN 3 rd floor
NIST-JANAF Thermochemical Tables – 2 pt.	REF QD 511 J36+ 1998 VAN WEB
Physical & Thermodynamic Properties of Pure Chemicals – 5 vol.	REF TP 200 D39 VAN
Physico-Chemical Constants of Pure Organic Compounds – 2 vol.	REF QD 291 T55 VAN
Properties of Aqueous Solutions of Electrolytes	REF QD 565 P76 1992 VAN
Smithsonian Physical Tables	REF QC 61 S6 1969 VAN ONLINE
Solubilities, Inorganic & Metalorganic Compounds	REF QD 543 L5 1958 VAN
Standard Potentials in Aqueous Solution	REF QD 571 S74 1985 VAN
Supplemental Tables of Molecular Orbital Calculations – 2 vol.	QD 461 S9 1965 VAN 3 rd floor
Surface Crystallographic Information Service	REF QD 921 S87 1987 VAN
Tables of Physical & Chemical Constants & Some Mathematical Functions	QC 61 K3 1986 VAN 3 rd floor
Thermodynamic Data for Biochemistry & Biotechnology	QP 517 T48T47 1986 VAN 3 rd floor

Databases

These are the major databases that index the literature of Chemistry & Biochemistry. For the full list and further content descriptions visit the Concordia Libraries Database Finder: <http://library.concordia.ca/research/databases/>.

SciFinder

- Chemical Abstracts from 1907.
- Includes information on substances and reactions.
- Accessible from computers within the Concordia IP range.
- Individual online registration required

Medline (via Pubmed)

- Citations and abstracts of the biomedical literature back to 1953.
- Connect with remote access from Concordia Libraries Database Finder.

Web of Science

- Includes Science Citation Index from 1989 onwards.
- Connect with remote access from Concordia Libraries Database Finder.
- Science Citation Index from 1985 to 1988 is available on CD-ROM at Vanier workstation V-140, and from 1965-1992 in print (Z 7401 S365 VAN Index).

Scopus

- Includes abstracts and citations for scientific journal literature, conference proceedings and books.
 - Connect with remote access from Concordia Libraries Database Finder.
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If you need assistance, please ask at the Reference Desk

Contact **Krista Alexander, Chemistry Librarian**
Telephone: 848-2424, ext. 5237
E-mail: krista.alexander@concordia.ca

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See also Sources in related topics: Sources in **Chemistry, Organic** and Sources in **Spectra**