

## Sources in

# CHEMISTRY, ORGANIC

This guide lists a selection of the more important sources of information on Organic Chemistry 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

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Chemical Publications: Their Nature & Use	REF QD 8.5 M44 VAN
How to Find Chemical Information	REF QD 8.5 M34 1998 VAN
Information Sources in Chemistry	REF QD 8.5 I47 1992 VAN
Library Handbook for Organic Chemists	REF DESK QD 256 P67 2000 VAN

## Guides to Writing Papers in Chemistry

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

## Dictionaries

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<a href="#">Dictionary of Chemistry (through Oxford Reference Online Premium)</a>	<b>ONLINE</b>
Dictionary of Chromatography	REF QD 79 C4D46 1982 VAN
Dictionary of Named Effects & Laws in Chemistry, Physics & Mathematics	REF Q 123 B32 VAN WEB
Gardner's Chemical Synonyms & Trade Names	REF TP 9 G286 1999 VAN
Glossary of Chemical Terms	REF QD 5 H34 1982 VAN WEB
Hawley's Condensed Chemical Dictionary	REF QD 5 C5 2007 VAN
Name Reactions and Reagents in Organic Synthesis	REF QD 291 M86 2005 VAN
Named Organic Reactions	REF QD 291 L3813 2000 VAN
Oxford Dictionary of Biochemistry and Molecular Biology	REF QP 512 O94 2006 VAN

## Encyclopedias

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Concise Encyclopedia Biochemistry & Molecular Biology	REF QD 415 A25B713 1997 VAN
Encyclopedia of Biological Chemistry – 4 vol.	REF QD 415 A25E53 2004 VAN
Concise Encyclopedia Chemistry	REF QD 4 A2313 1994 VAN
Encyclopedia of Catalysis – 6 vol.	REF QD 505 E53 2003 VAN
Encyclopedia of Chromatography – 2 vol.	REF QD 79 C4E63 2005 VAN
Encyclopedia of Electrochemistry of the Elements (v. 12-15: Organic Section)	REF QD 551 B37 VAN

Encyclopedia of Spectroscopy and Spectrometry – 3 vol.  
Encyclopedia of the Alkaloids – 3 vol.

REF QC 451 E53 2000 VAN **ONLINE**  
REF QD 421 G54 VAN

## *Treatises*

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

Beilstein Handbook of Organic Chemistry – multi-part	REF QD 251 B42B45 VAN
Chemistry of Functional Groups (Series) – 21 vol.	VAN – NOT SHELVED AS A SET
Chemistry of Heterocyclic Compounds – 62 vol.	REF QD 400 C5 VAN
Compendium of Organic Synthetic Methods – 3 vol.	REF QD 262 H32 VAN
Comprehensive Biochemistry – 43 vol.	REF QD 415 F54 VAN
Comprehensive Heterocyclic Chemistry: the Structure, Reactions, Synthesis, and Uses of Heterocyclic Compounds – 8 vol.	REF QD 400 C65 1984 VAN
Comprehensive Natural Products Chemistry – 9 vol.	REF QD 415 C63 1999 VAN
Comprehensive Organic Chemistry: the Synthesis and Reactions of Organic Compounds – 6 vol.	REF QD 245 C65 VAN
Comprehensive Organic Functional Group Transformations – 7 vol.	REF QD 262 C534 1995 VAN
Comprehensive Organic Synthesis: Selectivity, Strategy, and Efficiency in Modern Organic Chemistry – 9 vol.	REF QD 262 C535 1991 VAN
Comprehensive Organic Transformations: a Guide to Functional Group Preparations	REF QD 262 L355 1989 VAN REF QD 262 L355 1999 VAN
Comprehensive Organometallic Chemistry: the Synthesis, Reactions, and Structures of Organometallic Compounds – 9 vol.	REF QD 411 C65 1982 VAN
Comprehensive Organometallic Chemistry II – 14 vol.	REF QD 411 C652 1995 VAN
Comprehensive Supramolecular Chemistry – 11 vol.	REF QD 411 C66 1996 VAN
Fieser's Reagents for Organic Synthesis – 22 vol.	REF QD 262 F5 VAN
Methoden der Organischen Chemie – multi-part	REF QD 258 M4 1952 VAN
Methods of Biochemical Analysis – 46 volumes	REF QD 271 M4 VAN
Organic Reaction Mechanisms (Series) 1982-2001	QD 258 O82 VAN 3 <sup>rd</sup> floor
Organic Reactions – 65 vol.	REF QD 251 O7 VAN
Rodd's Chemistry of Carbon Compounds – 5 multi-part vol.	REF QD 251 R6 1964 VAN
Synthetic Methods of Organic Chemistry – 35 vol.	REF QD 262 S91 VAN

## *Handbooks – Major Sources of Chemical Data*

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CRC Handbook of Chemistry & Physics (latest at VAN REF desk)	REF QD 65 H3 VAN WEB
CRC Handbook of Data on Organic Compounds – 9 vol.	REF QD 257.7 H36 1989 VAN
Dictionary of Organic Compounds – 9 vol.	REF QD 476 D5 1996 VAN
<a href="#">Dictionary of Substances and their Effects</a> – 7 vol.	REF RA 1193 D53 1999 VAN <b>ONLINE</b>
Handbook of Tables for Organic Compound Identification	REF QD 291 R28 1967 VAN WEB
Lange's Handbook of Chemistry	REF QD 65 L36 VAN
Merck Index: an Encyclopedia of Chemicals, Drugs & Biologicals (latest at REF desk)	REF RS 51 M4 2001 VAN WEB

## *Handbooks – Specialized Topics*

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Comprehensive Organic Transformations	REF QD 262 L355 1999 VAN
CRC Handbook of Chromatography	REF QD 117 C5Z94 VAN WEB
CRC Handbook of EPR Spectra from Quinones & Quinols	REF QC 463 Q54C7 1985 VAN

CRC Handbook of HPLC for the Separation of Amino Acids, Peptides & Proteins	REF QD 431.7 C73 1984 VAN
CRC Handbook of Laboratory Safety	REF QD 51 H27 1990 VAN
CRC Handbook of Organic Analytical Reagents	REF QD 77 C73 1982 VAN
CRC Handbook of Organic Photochemistry and Photobiology	REF QD 719 C73 2004 VAN
CRC Handbook of Tables for Organic Compound Identification	REF QD 291 R28 VAN
CRC Handbook Series in Inorganic Electrochemistry – 6 vol.	REF QD 557 C73 VAN
Current Drug Handbook	REF RM 300 C8 VAN
Dictionary of Alkaloids	REF RS 431 A53D53 2010 VAN
Dictionary of Carbohydrates	REF QP 701 C294 2006 VAN
Dictionary of Organometallic Compounds	REF QD 411 D53 1984 VAN
Dictionary of Terpenoids	REF QD 416 C75 1991 VAN
Enzyme Handbook	REF QP 601 E5158 1990 VAN
Handbook of Aqueous Solubility Data	REF QD 257.7 Y35 2003 VAN
Handbook of Environmental Data on Organic Chemicals	REF TD 196 O73V47 1983 VAN
Handbook of Natural Products Data: Vol. 1: Diterpenoids & Steroidal Alkaloids	REF QD 415.7 R34 1990 VAN
Handbook of Organic Analysis	REF QD 271 C58 VAN
Handbook of Organic Chemistry	REF QD 251.2 D43 1987 VAN
Handbook of Polycyclic Aromatic Hydrocarbons	REF QD 341 H9H317 1983 VAN
Handbook of Reactive Chemical Hazards	REF T 55.3 H3B73 1985 VAN
Industrial Solvents Handbook	REF TP 247.5 I53 1998 VAN
Nucleic Acids Sequences Handbook	REF QD 431 N38 1981 VAN
Organic Photochemistry and Photobiology	REF QD 719 C73 2004 VAN
Oxford Handbook of Nucleic Acid Structure	REF QD 433.5 S77O44 1999 VAN
Phytochemical Dictionary: a Handbook of Bioactive Compounds from Plants	REF QK 898 B54P48 1993 VAN
Polymer Handbook	REF QD 388 P65 1999 VAN
Practical Handbook of Biochemistry & Molecular Biology	REF QP 514.2 P73 1989 VAN
Ring Systems Handbook	REF QD 281 R5R54+ VAN

## *Handbooks - Nomenclature*

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Guide to IUPAC Nomenclature of Organic Chemistry	REF QD 291 I57 1993 VAN
Nomenclature of Organic Compounds: Principles and Practice	QD 291 F6 2001 VAN 3 <sup>rd</sup> floor
Principles of Chemical Nomenclature: a Guide to IUPAC Recommendations	QD 7 L44 1998 VAN 3 <sup>rd</sup> floor
Systematic Nomenclature of Organic Chemistry	QD 291 H3913 2001 VAN 3 <sup>rd</sup> floor
Systematic Nomenclature of Organic, Organometallic and Coordination Chemistry	REF QD 291 B86 2007
Vocabulary of Organic Chemistry	REF QD 291 C55 VAN

## *Catalogues of Chemicals*

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Aldrich Handbook of Fine Chemicals and Laboratory Equipment	REF TP 202 A5+ VAN
OPD Chemical Buyers Directory (oil, paint, and drugs)	REF TP 12 O6 VAN
Products for Life Science Research (Sigma-Aldrich)	REF TP 202 S5+ VAN

For **ONLINE** access to Sigma-Aldrich catalogues visit <http://www.sigmaaldrich.com>

## Tables

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Critical Stability Constants – 6 vol.	REF QD 503 M37 VAN
Data for Biochemical Research	REF QP 520 D37 VAN
Dissociation Constants of Organic Bases in Aqueous Solutions	REF QD 273 P35 VAN WEB
<a href="#">International Critical Tables</a> – 8 vol.	REF Q 199 N3 VAN WEB <b>ONLINE</b>
Physico-Chemical Constants of Pure Organic Compounds	REF QD 291 T55 VAN
<a href="#">Smithsonian Physical Tables</a>	REF QC 61 S6 1969 VAN <b>ONLINE</b>
Solubilities of Inorganic & Organic Compounds	REF QD 543 M6 VAN
Table of Isotopes	REF QD 466 L37 1978 VAN
Tables of Physical & Chemical Constants & Some Mathematical Functions	REF QC 61 K3 1986 VAN

## Databases

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These are the major databases that index the literature of Organic Chemistry. 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 at Vanier and Webster Libraries' workstations or from computers within the Concordia IP range.

### Organic Syntheses

- Annual publication (since 1921) providing detailed directions for the synthesis of organic compounds.
- Fully searchable by keyword (chemical name, molecular formula, CAS RN) and structure (download free ChemDraw plugin from the site).
- Free access on the Internet (<http://www.orgsyn.org/>).

### 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 2000 is available on CD-ROM at Vanier workstation V-133, and from 1965-1992 in print (Z 7401 S365 VAN Index).

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*If you need assistance, please ask at the Reference Desk*

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*Last modified* March 2010

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