## 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/](http://library.concordia.ca/research/subjects/) or contact the reference librarian.

### Guides to the Literature

<table>
<thead>
<tr>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Publications: Their Nature &amp; Use</td>
<td>REF QD 8.5 M44 1982 VAN</td>
</tr>
<tr>
<td>How to Find Chemical Information</td>
<td>REF QD 8.5 M34 1998 VAN WEB</td>
</tr>
<tr>
<td>Information Sources in Chemistry</td>
<td>QD 8.5 I47 1992 VAN 3rd floor</td>
</tr>
<tr>
<td>Library Handbook for Organic Chemists</td>
<td>REF QD 256 P67 2000 VAN</td>
</tr>
</tbody>
</table>

### Guides to Writing Papers in Chemistry

<table>
<thead>
<tr>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS Style Guide</td>
<td>REF QD 8.5 A25 2006 VAN</td>
</tr>
<tr>
<td>Scientific style and format : the CSE manual for authors, editors, and publishers</td>
<td>REF T 11 S386 2006 VAN</td>
</tr>
</tbody>
</table>

### Dictionaries

<table>
<thead>
<tr>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dictionary of Chemistry (through Oxford Reference Online Premium)</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Gardner’s Chemical Synonyms &amp; Trade Names</td>
<td>REF TP 9 G286 1999 VAN</td>
</tr>
<tr>
<td>Glossary of Chemical Terms</td>
<td>QD 5 H34 1982 VAN 3rd floor</td>
</tr>
<tr>
<td>Hawley’s Condensed Chemical Dictionary</td>
<td>WEB REF</td>
</tr>
<tr>
<td>Name Reactions and Reagents in Organic Synthesis</td>
<td>REF QD 291 M86 2005 VAN</td>
</tr>
<tr>
<td>Named Organic Reactions</td>
<td>QD 291 L3813 2000 VAN 3rd floor</td>
</tr>
<tr>
<td>Oxford Dictionary of Biochemistry and Molecular Biology</td>
<td>REF QP 512 O94 VAN ONLINE</td>
</tr>
</tbody>
</table>

### Encyclopedias

<table>
<thead>
<tr>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concise Encyclopedia Biochemistry &amp; Molecular Biology</td>
<td>REF QD 415 A25B713 1997 VAN</td>
</tr>
<tr>
<td>Encyclopedia of Biological Chemistry – 4 vol.</td>
<td>REF QD 415 A25E53 2004 VAN ONLINE</td>
</tr>
<tr>
<td>Concise Encyclopedia Chemistry</td>
<td>REF QD 505 E53 2003 VAN ONLINE</td>
</tr>
<tr>
<td>Encyclopedia of Catalysis – 6 vol.</td>
<td>REF QD 551 B37 VAN</td>
</tr>
<tr>
<td>Encyclopedia of Electrochemistry of the Elements (v. 12-15: Organic Section)</td>
<td></td>
</tr>
<tr>
<td>Encyclopedia of Spectroscopy and Spectrometry – 3 vol.</td>
<td></td>
</tr>
</tbody>
</table>

---

[Concordia University Libraries](http://library.concordia.ca)
Treatises

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

Beilstein Handbook of Organic Chemistry – multi-part
Chemistry of Functional Groups (Series) – 21 vol.
Chemistry of Heterocyclic Compounds – 65 vol.
Comprehensive Biochemistry – 46 vol.
Comprehensive Natural Products Chemistry – 9 vol.
Comprehensive Organic Transformations: a Guide to Functional Group Preparations
Comprehensive Organometallic Chemistry II – 14 vol.
Comprehensive Supramolecular Chemistry – 11 vol.
Methoden der Organischen Chemie – multi-part
Methods of Biochemical Analysis – 53 vol.
Organic Reaction Mechanisms (Series) 1982-2001
Rodd’s Chemistry of Carbon Compounds – 5 multi-part vol.

Handbooks – Major Sources of Chemical Data

CRC Handbook of Chemistry & Physics (latest at VAN REF desk)
CRC Handbook of Data on Organic Compounds – 9 vol.
Dictionary of Substances and their Effects – 7 vol.
Handbook of Tables for Organic Compound Identification
Lange’s Handbook of Chemistry
Merck Index: an Encyclopedia of Chemicals, Drugs & Biologicals (latest at VAN REF desk)

Handbooks – Specialized Topics

Bretherick’s Handbook of Reactive Chemical Hazards
Comprehensive Organic Transformations
CRC Handbook of Chromatography – 2 vol.
Handbooks - Nomenclature

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

Catalogues of Chemicals

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

Critical Stability Constants – 6 vol. REF QD 503 M37 VAN
Data for Biochemical Research QP 520 D37 1986 VAN 3rd 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
Physico-Chemical Constants of Pure Organic Compounds REF QD 291 T55 VAN
Smithsonian Physical Tables REF QC 61 S6 1969 VAN ONLINE
Solubilities of Inorganic & Organic Compounds REF QD 543 M6 1979 VAN
Table of Isotopes REF QD 466 L37 1978 VAN
Tables of Physical & Chemical Constants & Some Mathematical Functions QC 61 K3 1986 VAN 3rd floor

Databases

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. The database can also be accessed from home using the VPN service.
- Individual online registration required

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 1998 is available on CD-ROM at Vanier workstation V-140, and from 1965-1992 in print (Z 7401 S365 VAN Index).

If you need assistance, please ask at the Reference Desk

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

Last modified June 2014

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