For **chemical & physical properties, industrial usage** of your chemical molecule or group:

- **Library WebPage** > Chemistry Research Guide > Background Sources

**Hazardous Substances Data Bank (HSDB)**
(U.S. National Library of Medicine's TOXNET system on web)
Comprehensive peer-reviewed toxicology data (chemical properties, human toxicity, environmental fate & exposure, environmental standards US, laboratory methods & major uses) with references (to key sources **Merck, Kirk-Othmer, CRC** see below)

Books on **Reference shelves (Library Level 2)** across from Research Help Desk

**Standard Methods for the Examination of Water and Wastewater** (22nd ed.)
Ref QD 142 .S73 2017

**Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals** (15th ed.)
Ref RS 51 .M4 2013

**Kirk-Othmer Encyclopedia of Chemical Technology** (5th ed.)
Ref TP 9 .K54 2004


**AccessEngineering** e-books

1) Browse **Subjects** > **Environmental / Sustainable** or **Chemical**
   - Open up a book title **Titles (A-Z)**
     - **Dean's Analytical Chemistry Handbook** (2nd ed. 2004) for analytical methods
     - **Lange's Handbook of Chemistry** (17th ed. 2017)

   - **Industrial Water Quality** (4th ed. 2009)
   - **NALCO Water Handbook** (3rd ed. 2009)

2) Use **Advanced Search**
   - Type in terms **pcbs or polychlorinated biphenyls** [Tip! Spell out abbreviations]
   - Choose results in water titles (examples above)

**Tip!** Register to create personal account to signin for printing, downloading pdf chapter


books on Library Reserve (Library Level 2) ask at the Circulation Counter

Search example: arsenic toxicity

Select Web Sites: Guidelines & Water Quality Reports

**Federal**

**Health Canada: Water Quality: Reports & Publications**

Includes *Guidelines for Canadian Drinking Water Quality – Summary Table (2017)*

Table 2. Chemical/Physical Parameters

**Canadian Council of Ministers of the Environment: Canadian Environmental Guidelines** includes Factsheets and Summary Table for *Water Quality Guidelines for the Protection of Aquatic Life* and *Water Quality Guidelines for the Protection of Agriculture*; Federal Environmental Quality Guidelines include Federal Water Quality Guidelines (on substances for which CCME guidelines do not yet exist)

**Provincial**

**BC Ministry of Environmental Protection & Sustainability: Water Quality**

Includes *British Columbia Approved Water Quality Guidelines*

**Okanagan**

**Regional District of Central Okanagan (RDCO): Drinking Water Annual Reports**

Water analysis results for Okanagan Lake in Appendix 2: Additional Chemical Data

**Glenmore-Ellison Improvement District (GEID): Water Quality and Testing Results**

**Black Mountain Irrigation District: Water Quality**

**South East Kelowna Irrigation District: Water Quality Reports**
Search OCtopus for Books, Media, Articles, and More!

Access Tip!
For off-campus & wireless access to OCtopus, at Guest prompt enter your OC student number 300XXXXXX@stu.oc and myOkanagan password.

Results include OC books, ebooks & media, e-reference titles, reports, academic & scholarly journal articles, popular magazine and newspaper articles.

For chemistry, science, engineering & technologies research, these EBSCOhost article databases are searched – Academic Search Complete, GreenFile, Applied Science & Technology Index, General Science Abstracts plus JSTOR, ScienceDirect, and Wiley Online Library.

Search examples:
- dioxin* chemical toxic* water
- ddt insecticide water quality
- toxaphene chemical toxic* water
- lead toxic* water
- "polychlorinated biphenyls" water pollut*
- arsenic water quality mining canada

Tip: toxic* finds toxicity, toxicology

At the left menu, Refine your results

1. For only OC Library books and e-books
   Click on Resource Types
   ✓ Books

2. For Journal Articles
   Click on Resource Types
   ✓ Academic Journals and Trade Publications

Example of Specific Article:

3. To limit your results further,
   . Use the date slider for recent publication dates, e.g. 2008-2018
   . Click open Subject. Show more
   . At the bottom left menu, tick the box next to a specific database (click Show More to see the full list of databases with results) e.g. ScienceDirect (research articles)
Need better results?

**Refine Search > Advanced Search**
fill up the search box rows with keyword combinations

*molecule name or chemical group*
AND key terms like *analysis, toxicity, “environmental aspects”, “industrial applications”, “industrial safety”, “material safety”, “water quality”*

Examples:
- *dioxin*
  - AND *chemical*
  - AND *toxicity OR analysis*
  - AND *human*

- *water quality guideline*
  - AND *pcbs OR polychlorinated biphenyls*
  - AND *canad*.

- *pcbs OR polychlorinated biphenyls*
  - AND *water*
  - AND *analysis*

  **Tip!** *pollut* finds *pollution, pollutant, pollutants*

**Results Tips!**

. Click **Folder** icon to gather selected results then **print/email/save** results set.

. Tick **citation format box** for **Chicago/Turabian:Humanities** (ACS not available, but Chicago Humanities is similar) to get a References list along with full-text of your articles

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**ACS Style for writing Chemistry**

- keep details of your sources; using the **ACS (American Chemical Society)** style, cite your sources in your paper and list them on a **References** page


ACS [website](#)
Chapter 14 References (55 pages PDF) full chapter from style guide on referencing

ACS style [web guides for students](#)
A quick guide to references using the ACS style guide (Concordia University June 2010) (3 pages PDF) basic introduction to ACS citation style with common examples including lab manuals & course notes

ACS style (Murdoch University, Western Australia) (online) numerous sources of information including e-books

**Tip!** in Octopus & Library databases cite tools, ACS is not available; choose Chicago/Turabian: Humanities which closely matches, or as instructor permits, use APA style. Whichever chosen style, use it consistently!