A QUICK GUIDE TO REFERENCE CITATIONS USING THE ACS STYLE GUIDE

INTRODUCTION

This guide provides a basic introduction to the ACS citation style. It is based on the 3rd edition of the *ACS Style Guide* published by the American Chemical Society in 2006. The *ACS Style Guide* is generally used for academic writing in chemistry. This guide provides basic explanations and examples for the most common types of citations used by students. For additional information and examples, refer to **Chapter 14** of the *ACS Style Guide*.

CITING REFERENCES IN TEXT

ACS suggests citing references in text in three ways:

By superscript numbers:

- Oscillation in the reaction of benzaldehyde with oxygen was reported previously.[3]
- The syntheses described by Fraser[3] take advantage of carbohydrate topology.

By italic numbers in parentheses:

- Oscillation in the reaction of benzaldehyde with oxygen was reported previously (*6*).
- Jensen (*6*) reported oscillation in the reaction of benzaldehyde with oxygen.

By author name and year of publication in parentheses (author-date system):

- Oscillation in the reaction of benzaldehyde with oxygen was reported previously (Finnegan et al., 2004).
- The primary structure of this enzyme has also been determined (O'Brien and Alenno, 2005; Axelrod, 2003).

BOOKS (See pages 300-306 of the *ACS Style Guide* for more book examples)

Book (without editor)

Lehman, J. W. *Operational organic chemistry: a problem-solving approach to the laboratory course*, 4th ed.; Pearson Prentice Hall: Upper Saddle River, N.J., 2009; p 57.

Book Chapter (from an edited book)

Nishiyama, H.; Shiomi, T. Reductive Aldol, Michael, and Mannich Reactions. In *Metal Catalyzed Reductive C-C Bond Formation: A Departure from Preformed Organometallic Reagents*; Krische, M. J., Ed.; Springer: Berlin, 2007; pp 105-138.

E-book

Dyall, K. G.; Faegri, K. *Introduction to relativistic quantum chemistry* [Online]; Oxford University Press: Oxford, UK, 2007; p 15. http://0-lib.myilibrary.com.mercury.concordia.ca/browse/open.asp?id=115882&loc= (accessed Jun 14, 2010).

ENCYCLOPEDIAS (See pages 305-306 & 320 of the *ACS Style Guide* for more encyclopedia examples)

Print

Diagnostic Reagents. *Ullmann's Encyclopedia of Industrial Chemistry*, 5th ed.; VCH: Weinheim, Germany, 1985; Vol. A8, pp 455-491.

Online

Alkanolamines from Nitro Alcohols. *Kirk-Othmer Encyclopedia of Chemical Technology* [Online]; Wiley & Sons, Posted March 14, 2003. http://www.mrw.interscience.wiley.com/kirk/articles/alkaboll.a01/frame.html (accessed Nov 7, 2004).

HANDBOOKS (See pages 305-306 & 320 of the *ACS Style Guide* for more encyclopedia examples)

CRC Handbook of Chemistry and Physics, 89th ed.; Lide, D.R., Ed.; CRC Press: Boca Raton, FL, 2008; Section 3, No. 339.

The Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals, 12th ed.; Budavari, S.; O'Neal, M.J.; Smith, A.; Heckelman, P. E.; Kinneary, J. F., Eds.; Merck & Co.: Whitehouse Station, NJ, 1996; entry 4857.

JOURNAL ARTICLES (See pages 291-299 of the *ACS Style Guide* for more journal article examples)

Mawhinney, R. C.; Muchall, H. M.; Peslherbe, G.H.. A Computational Study of the 1,3-Dipolar Cycloaddition Reaction Mechanism for Nitrilimines. *Can. J. Chem.* **2005,** *35*, 1615-1625.

LAB MANUALS, COURSE NOTES & OTHER ORAL PRESENTATIONS

Treat a lab manual or course notes like a book authored by the instructor and published by the University.

Lab Manual

Bird, P. *Chemistry 206 Laboratory Manual*; Concordia University: Montreal, QC, 2010; p 21.

Course Notes & Other Oral Presentations

Robidoux, S. CHEM 324 Lecture on Stereochemistry. Presentated at Concordia University, Montreal, QC, September 16, 2009.

PATENTS (See pages 310-11 of the *ACS Style Guide* for more examples)

Sheem, S. K. Low-Cost Fiber Optic Pressure Sensor. U.S. Patent 6,738,537, May 18, 2004.

Lenssen, K. C.; Jantscheff, P.; Kiedrowski, G.; Massing U. Cationic Lipids with Serine Backbone for Transfecting Biological Molecules. Eur. Pat. Appl. 1457483, 2004.

SCIFINDER & OTHER DATABASES (See pages 314 & 324 of the *ACS Style Guide* for more examples)

References to data retrieved from a database should be cited like a web site and include the CAS Registry Number (RN) or chemical name and the date the database was accessed. If the data are calculated data, also cite the software used for the calculation.

SciFinder

SciFinder; Chemical Abstracts Service: Columbus, OH; carbon-13 NMR spectrum; spectrum ID CC-03-C_SPC-3734; RN 50-52-2; https://scifinder.cas.org (accessed June 9, 2010).

SciFinder; Chemical Abstracts Service: Columbus, OH; Density; RN 50-52-2; https://scifinder.cas.org (accessed June 9, 2010); calculated using ACD/Labs software, version 8.14; ACD/Labs 1994-2007.

Other databases

Spectral Database for Organic Compounds (SDBS); mass spectrum; SDBS No.: 4778; RN 87-86-5; http://riodb01.ibase.aist.go.jp/sdbs/ (accessed June 14, 2010).

SPECTRA & OTHER DATA

References to data retrieved from a database should be cited like a web site and include the CAS Registry Number (RN) or chemical name and the date the database was accessed. If the data are calculated data, also cite the software used for the calculation.

SciFinder: If the spectrum or data was found in SciFinder, cite it in the following way:

SciFinder; Chemical Abstracts Service: Columbus, OH; carbon-13 NMR spectrum; spectrum ID CC-03-C_SPC-3734; RN 50-52-2; https://scifinder.cas.org (accessed June 9, 2010).

SciFinder; Chemical Abstracts Service: Columbus, OH; Density; RN 50-52-2; https://scifinder.cas.org (accessed June 9, 2010); calculated using ACD/Labs software, version 8.14; ACD/Labs 1994-2007.

Online: If the spectrum or data was found in an online database or web site, cite it in the following way:

Spectral Database for Organic Compounds (SDBS); mass spectrum; SDBS No.: 4778; RN 87-86-5; http://riodb01.ibase.aist.go.jp/sdbs/ (accessed June 14, 2010).

Journal Articles: If the spectrum was found in a journal, cite the article:

Kartashov, V. S.; Shorshnev, S. V.; Arzamastsev, A. P. Use of carbon-13 NMR spectroscopy to identify 10-alkyl derivatives of phenothiazine. *Khimiko-Farmatsevticheskii Zhurnal* **1991**, *25*, 85-8.

Print (data set compilation): If the spectrum or data was found in a book or handbook, cite it in the following way:

The Sadtler Standard Spectra: 300 MHz Proton NMR Standards; Bio-Rad, Sadlter Div.: Philadelphia, PA, 1994; no. 7640 (1-Chloropentane).

The Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals, 12th ed.; Budavari, S.; O'Neal, M.J.; Smith, A.; Heckelman, P. E.; Kinneary, J. F., Eds.; Merck & Co.: Whitehouse Station, NJ, 1996; entry 4857.

WEB SITES (See pages 320-322 of the *ACS Style Guide* for more examples)

Alkaloid, 2009. HowStuffWorks.com. http://science.howstuffworks.com/alkaloid-info.htm (accessed June 14, 2010).

Zeng, Y. Pentachlorophenol Family Pathway Map, 2008. University of Minnesota Biocatalysis/Biodegradation Database. http://umbbd.msi.umn.edu/pcp/pcp_map.html (accessed May 3, 2009).