

Solvent Toxicity Reference Sheet

Acetone

(1) Johanson, Gunnar; Acetone. In *Patty's Toxicology*, Sixth Edition; Bingham, E.; Cohns, B., Eds.; John Wiley & Sons, Inc. 2012; Volume 3, 735-752.

(2) Flowers, L.; Broder, M. W.; Forsyth, C.; *Toxicological Review of Acetone*. EPA/635/R-03/004; Environmental Protection Agency: Washington, DC, 2003.

Acetonitrile

(1) Environmental Protection Agency. Technology Transfer Network – Air Toxics: Acetonitrile. <http://www.epa.gov/airtoxics/hlthef/acetonit.html> (accessed Mar 30, 2015)

Benzene

(1) Office of Environmental Health Hazard Assessment. Acute Toxicity Summary: Benzene, 1999. <http://oehha.ca.gov/air/pdf/acutea-c.pdf> (accessed Apr 2, 2015)

(2) Yardley-Jones, A.; Anderson, D.; Parke, D. V. The toxicity of benzene and its metabolism and molecular pathology in human risk assessment. *Brit. J. Ind. Med.* **1991**, *48*, 437-444.

Carbon tetrachloride

(1) Recknagel, R. O.; Glende, E. A.; Dolak, J. A.; Waller, R. L. *Pharmac. Ther.* **1989**, *43*, 139-154.

Chlorobenzene

(1) U.S. Department of Health and Human Services. Toxicological Profile for Chlorobenzene, 1990. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/tp131.pdf> (accessed Mar 30, 2015).

Chloroform

(1) Tardiff, R. G. Health Effects of Organics: Risk and Hazard Assessment of Ingested Chloroform. *J. Am. Water Works Assoc.* **1977**, *69*, 658-661.

(2) U.S. Department of Health and Human Services. Toxicological Profile for Chloroform, 1997. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/tp6.pdf> (accessed Apr 24, 2015).

(3) *Toxicological Review of Chloroform*. EPA/635/R-01/001; Environmental Protection Agency: Washington, DC, 2001.

1,2-Dichloroethane (DCE)

(1) U.S. Department of Health and Human Services. Toxicological Profile for 1,2-Dichloroethane, 2001. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/tp38.pdf> (accessed Mar 30, 2015).

Ethanol (EtOH)

(1) Bondy, S. C. *Toxicology Letters*. **1992**, *63*, 231-241.

Ethyl Acetate

(1) Christoph, G. R.; Hansen, J. F.; Leung, H. Subchronic Inhalation Neurotoxicity Studies of Ethyl Acetate in Rats. *NeuroToxicology*. **2003**, *24*, 861-874.

Diethyl ether (Ether)

(1) Greim, H., Ed. The MAK Collection for Occupational Health and Safety; Wiley-VCH: Weinheim, Germany, 2012; Vol. 13, pp 149-160.

Perfluorohexane

(1) Tsai, W. T. *Environ. Int.* **2009**, *35*, 418-424.

α , α , α -Trifluorotoluene

(1) Maul, J. J.; Ostrowski, P. J.; Ublacker, G. A.; Linclau, B.; Curran, D. P. Benzotrifluoride and Derivatives: Useful Solvents for Organic Synthesis and Fluorous Synthesis. In *Modern Solvents in Organic Synthesis*; Knochel, P., Ed.; Topics In Current Chemistry, Vol. 206; Springer: Berlin, Germany, 1999; pp 79-105.

Dichloromethane (DCM)

(1) Schlosser, P. M.; Bale, A. S.; Gibbons, C. F.; Wilkins, A.; Cooper, G. S. Human Health Effects of Dichloromethane: Key Findings and Scientific Issues. *Environ. Health Perspect.* **2015**, *123*, 114-119.

Hexanes

(1) Buddrick, O.; Jones, O. A. H.; Morrison, P. D.; Small, D. M. Heptane as a less toxic option than hexane for the separation of vitamin E from food products using normal phase HPLC. *RSC Adv.*, **2013**, *3*, 24063-24068.

(2) *Toxicological Review of n-Hexane*. EPA/635/R-03/012; Environmental Protection Agency: Washington, DC, 2005.

Tetrahydrofuran (THF)

(1) Fowles, J.; Boatman, R.; Bootman, J.; Lewis, C.; Morgott, D.; Rushton, E.; van Rooij, J.; Banton, M. A review of the toxicological and environmental hazards and risks of tetrahydrofuran. *Crit. Rev. Toxicol.* **2013**, *43*, 811-828.

Dihydrogen monoxide (water)

(1) Farrell, D. J.; Bower, L.; *J. Clin. Pathol.* **2003**, *56*, 803-804.

Isopropyl alcohol (isopropanol)

(1) National Research Council. Emergency and Continuous Exposure Limits for Selected Airborne Contaminants; The National Academies Press: Washington DC, 1984, Vol. 2, pp 56-58.

Diisopropyl ether

(1) Greim, H., Ed. The MAK Collection for Occupational Health and Safety Part 1: MAK Value Documentations; Wiley-VCH: Weinheim, Germany, 2005; Vol. 21, pp 187-193.

Methanol (MeOH)

(1) Greim, H., Ed. The MAK Collection for Occupational Health and Safety; Wiley-VCH: Weinheim, Germany, 2012; Vol. 16, pp 143-175.

Dimethoxyethane

(1) Toxicology and Regulatory Affairs. 1,2-Dimethoxyethane, 2001. U.S. EPA High Production Volume (HPV) Challenge, Robust Summaries and Test Plans Web Site. <http://www.epa.gov/chemrtk/pubs/summaries/viewsrch.htm> (accessed Apr 10, 2015)

Dimethylacetamide (DMA)

(1) Horn, H. J.; Toxicity of Dimethylacetamide. *Toxicol. App. Pharm.* **1961**, *3*, 12-24.

Dimethyl formamide (DMF)

(1) Gescher, A. *Chem. Res. Toxicol.* **1993**, *6*, 245-251.

(2) Scailteur, V.; Lauwerys, R. R; *Toxicology* **1987**, *43*, 231-238.

Dimethyl sulfoxide (DMSO)

(1) Smith, E. R.; Hadidian, Z.; Mason, M. M.; The Single and Repeated Dose Toxicity of Dimethyl Sulfoxide. *Ann. N. Y. Acad. Sci.* **1967**, *141*, 96-109.

1,4-Dioxane

(1) Agency for Toxic Substances and Disease Registry: Public Health Statement for 1,4-Dioxane, 2012. <http://www.atsdr.cdc.gov/PHS/PHS.asp?id=953&tid=199> (accessed Apr 24, 2015)

(2) Wilbur, S.; Jones, D.; Risher, J. F.; Crawford, J.; Tencza, B.; Lladós, F.; Diamond, G. L.; Citra, M.; Osier, M. R.; Lockwood, L. O. Toxicological Profile for 1,4-Dioxane. Atlanta (GA): Agency for Toxic Substances and Disease Registry (US); 2012. <http://www.ncbi.nlm.nih.gov/books/NBK153677/> (accessed Apr 24, 2015)

n-Pentane

(1) European Commission Directorate – General Health and Consumer Protection. Scientific Committee on Toxicity, Ecotoxicity and the Environment Opinion on the results of the Risk Assessment of n-Pentane, Human Health Part. 35th CSTEE Plenary Meeting, Brussels, 2002. http://ec.europa.eu/food/fs/sc/sct/out172_en.pdf (accessed Apr 24, 2015)

Pentanes

(1) Lee, J.-S. Texas Commission on Environmental Quality, Development Support Document: Pentane, All Isomers, 2011
<http://www.tceq.texas.gov/assets/public/implementation/tox/dsd/final/july11/pentane.pdf>
(accessed Apr 5 2015).

Pyridine

(1) Schultz, T. W.; Allison, T. C. Toxicity and Toxic Interaction of Aniline and Pyridine. *Bull. Environ. Contam. Toxicol.* **1979**, *23*, 814-819.

(2) Baxter, J. H. Hepatic and renal injury with calcium deposits and cirrhosis produced in rats by pyridine. **1948**, *24*, 503-25.

(3) Pollock, L. J.; Finkelman, I.; Arieff, A. J. Toxicity of Pyridine in Man. *Arch. Intern. Med.* **1943**, *71*, 95-106.

(4) U.S. Public Health Services. Toxicological Profile for Pyridine, 1992. Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov/toxprofiles/tp52.pdf> (accessed Apr 2, 2015).

N-methyl-2-pyrrolidone (NMP)

(1) Directorate-General for Health & Consumers. Scientific Committee on Consumer Safety. Opinion on N-methyl-2-pyrrolidone (NMP). http://ec.europa.eu/health/scientific_committees/consumer_safety/docs/sccs_o_050.pdf (accessed Mar 30, 2015).

Nitromethane

(1) IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. Nitromethane. In Some Industrial Chemicals; IARC Monographs on the Evaluation of Carcinogenic Risks to Humans 77; World Health Organization, International Agency for Research on Cancer: Lyon, France, 2000; pp 487-501.
<http://monographs.iarc.fr/ENG/Monographs/vol77/mono77.pdf> (accessed April 24, 2015).