ACGIH. 2004. Threshold limit values for chemical substances and physical agents and biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

Adams JD, Klaidman LK. 1993. Acrolein-induced oxygen radical formation. Free Radic Biol Med 15(2):187-193.

Adinolfi M. 1985. The development of the human blood-CSF-brain barrier. Dev Med Child Neurol 27:532-537.

Adlercreutz H. 1995. Phytoestrogens: Epidemiology and a possible role in cancer protection. Environ Health Perspect Suppl 103(7):102-112.

Agency for Toxic Substances and Disease Registry. 1988. Health assessment for Coker's Sanitation Service Landfills, Cheswold, Delaware, Region 3. CERCLIS No. DED980704860. Atlanta, GA: Agency for Toxic Substances and Disease Registry. PB90143983.

Agency for Toxic Substances and Disease Registry. 1989. Decision guide for identifying substancespecific data needs related to toxicological profiles; Notice. Atlanta, GA: Agency for Toxic Substances and Disease Registry. Fed Regist 54(174):37618-37634.

Agency for Toxic Substances and Disease Registry. 1990. Biomarkers of organ damage or dysfunction for the renal, hepatobiliary, and immune systems. Subcommittee on Biomarkers of Organ Damage and Dysfunction. Atlanta, GA: Agency for Toxic Substances and Disease Registry.

Ahrenholz SH, Egilman DS. 1983. Health hazard evaluation: Determination Report No. HETA 82-223-1340. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. PB85101053.

Alarcon RA. 1970. Acrolein. IV. Evidence for the formation of the cytotoxic aldehyde acrolein from enzymatically oxidized spermine or spermidine. Arch Biochem Biophys 137:365-373.

*Alarcon RA. 1976. Studies on the *in vivo* formation of acrolein. 3-Hydroxypropylmercapturic acid as an index of cyclophosphamide (NSC-26271) activation. Cancer Treat Rep 60:327-335.

Alarie Y. 1973. Sensory irritation by airborne chemicals. CRC Crit Rev Toxicol 2:299-363.

Albin B. 1962. Acrolein handling and toxicity. In: Smith CW, ed. Acrolein. New York, NY: John Wiley & Sons, 234-239.

Al-Rawithi S, El-Yazigi A, Nicholls PJ. 1993. Determination of acrolein in urine by liquid chromatography and fluorescence detection of its quinoline derivative. Pharm Res 10(11):1587-1590.

Altman PL, Dittmer DS. 1974. Biological handbooks: Biology data book. Vol. III. 2nd ed. Bethesda, MD: Federation of American Societies for Experimental Biology, 1987-2008, 2041.

^{*} Not cited in profile

Altshuller AP, McPherson SP. 1963. Spectrophotometric analysis of aldehydes in the Los Angeles atmosphere. J Air Pollut Control Fed 13:109-111.

Amoore JE, Hautala E. 1983. Odor as an aid to chemical safety: Odor thresholds compared with threshold limit values and volatilities for 214 industrial chemicals in air and water dilution. J Appl Toxicol 3:272-290.

Andersen KJ, Leighty EG, Takahashi MT. 1972. Evaluation of herbicides for possible mutagenic properties. J Agric Food Chem 20(3):649-656.

Andersen ME, Krishnan K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically based tissue dosimetry and tissue response models. In: Salem H, ed. Animal test alternatives: Refinement, reduction, replacement. New York: Marcel Dekker, Inc., 9-25.

Andersen ME, Clewell HJ, Gargas ML, et al. 1987. Physiologically based pharmacokinetics and the risk assessment process for methylene chloride. Toxicol Appl Pharmacol 87:185-205.

Anderson MM, Hazen SL, Hsu FF, et al. 1997. Human neutrophils employ the myeloperoxidasehydrogen peroxide-chloride system to convert hydroxyl-amino acids into glycolaldehyde, 2-hydroxypropanal, and acrolein. J Clin Invest 99(3):424-432.

Ansari GAS, Gan JC, Barton BK. 1988a. Synergistic inactivation of plasma α_1 -proteinase inhibitor by aldehydes of cigarette smoke with styrene oxide and 1,2-dichloroethane. Arch Environ Contam Toxicol 17:533-536.

Apol A. 1982. Health hazard evaluation: Determination Report No. HETA 81-133-1110. Gerlinger Casting Corporation, Salem, OR. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, Centers for Disease Control, National Institute for Occupational Safety and Health. PB84142116.

Aranyi C, O'Shea WJ, Graham JA, et al. 1986. The effects of inhalation of organic chemical air contaminants on murine lung host defenses. Fundam Appl Toxicol 6:713-720.

Arntz D, Hopp M, Jacobi S, et al. 2002. Acrolein and methacrolein. In: Ullmann's encyclopedia of industrial chemistry. http://www.mrw.interscience.wiley.com/ueic/articles/a01_sect1.html. February 24, 2005.

Arumugam N, Thanislass J, Ragunath K, et al. 1999. Acrolein-induced toxicity. Defective mitochondrial function as a possible mechanism. Arch Environ Contam Toxicol 36(4):373-376.

Astry, CL, Jakab GJ. 1983. The effects of acrolein exposure on pulmonary antibacterial defenses. Toxicol Appl Pharmacol 67:49-54.

Atkinson R. 1985. Kinetics and mechanisms of the gas-phase reactions of hydroxyl radical with organic compounds under atmospheric conditions. Chem Rev 85:69-201.

Atkinson R, Aschmann SM, Goodman MA. 1987. Kinetics of the gas-phase reactions of nitrate radicals with a series of alkynes, haloalkenes, and α , β -unsaturated aldehydes. Int J Chem Kinet 19:299-308.

Au W, Sokova 01, Kopnin B, et al. 1980. Cytogenetic toxicity of cyclophosphamide and its metabolites *in vitro*. Cytogenet Cell Genet 26:108-116.

Ayer HE, Yeager DW. 1982. Irritants in cigarette smoke plumes. Am J Public Health 72:1283-1285.

*Babiuk C, Steinhagen WH, Barrow CS. 1985. Sensory irritation response to inhaled aldehydes after formaldehyde pretreatment. Toxicol Appl Pharmacol 79:143-149.

Baker Petrolite. 2005. Acrolein. Highly effective sulfide scavenger and microbiocide. http://www.bakerhughes.com/pakerpetrolite/oilgas/biocides/index.htm. July 18, 2005.

Ballantyne B, Dodd DE, Pritts IM, et al. 1989. Acute vapour inhalation toxicity of acrolein and its influence as a trace contaminant in 2-methoxy-3,4-dihydro-2H-pyran. Human Toxicol 8:229-235.

Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. Regul Toxicol Pharmacol 8:471-486.

Bartsch H, Malaveille C, Camus AM, et al. 1980. Validation and comparative studies on 180 chemicals with *S. typhimurium* strains and V79 Chinese hamster cells in the presence of various metabolizing systems. Mutat Res 76:1-50.

Basu AK, Marnett LJ. 1984. Molecular requirements for the mutagenicity of malondialdehyde and related acroleins. Cancer Res 44:2848-2854.

*Basu PK, Lusis G, Dhurandhar R. 1971. The effect of air pollutants on the eye: II. A study on their effect on the oculocardiac reflex. Can J Ophthalmol 6:136-138.

*Bauer K, Czech K, Porter A. 1977. [Severe accidental acrolein intoxication in the home.] Wien Klin Wochhenschr 89:243-244. (German)

Beauchamp RO Jr, Andjelkovich DA, Kligerman AD, et al. 1985. A critical review of the literature on acrolein toxicity. CRC Crit Rev Toxicol 14:309-380.

Berger GS. 1994. Epidemiology of endometriosis. In: Berger GS, ed. Endometriosis: Advanced management and surgical techniques. New York, NY: Springer-Verlag.

Bignami M, Cardamone G, Comba P, et al. 1977. Relationship between chemical structure and mutagenic activity in some pesticides: The use of *Salmonella typhimurium* and *Asperpillus nidulans*. Mutat Res 46:243-244.

Bilimoria MH. 1975. The detection of mutagenic activity of chemicals and tobacco smoke in a bacterial system. Mutat Res 31:328.

Boettner EA, Ball GL. 1980. Thermal degradation products from PVC film in food-wrapping operations. Am Ind Hyg Assoc J 41:513-522.

Boor PJ, Ansari GAS. 1986. High-performance liquid chromatographic method for quantitation of acrolein in biological samples. J Chromatogr Biomed Appl 375:159-164.

Boor PJ, Sanduja R, Nelson TJ, et al. 1987. *In vivo* metabolism of the cardiovascular toxin, allylamine. Biochem Pharmacol 36:4347-4353.

Bouley G, Dubreuil A, Godin J, et al. 1975. [Effects in the rat of a weak dose of acrolein inhaled continuously.] Eur J Toxicol Environ Hyg 8:291-297. (French)

Bowmer KH, Higgins ML. 1976. Some aspects of the persistence and fate of acrolein herbicide in water. Arch Environ Contam Toxicol 5:87-96.

Bowmer KH, Lang ARG, Higgins ML, et al. 1974. Loss of acrolein from water by volatilization and degradation. Weed 14:325-328.

Brock N, Pohl J, Stekar J. 1981b. Studies on the urotoxicity of oxazaphosphorine cytostatics and its prevention - I. Experimental studies on the urotoxicity of alkylating compounds. Eur J Cancer 17:595-607.

Bronstein AC, Currance PL. 1994. Acrolein and related compounds. Emergency care for hazardous materials exposure. 2nd ed. St. Louis, MO: Mosby Lifeline.

Buckley LA, Jiang XZ, James RA, et al. 1984. Respiratory tract lesions induced by sensory irritants at the RD50. Toxicol Appl Pharmacol 74:417-429.

Burcham PC, Fontaine FR, Kaminskas LM, et al. 2004. Protein adduct-trapping by hydrazinophthalazine drugs: Mechanisms of cytoprotection against acrolein-mediated toxicity. Mol Pharmacol 65(3):655-664.

Bysshe SE. 1982. Bioconcentration factor in aquatic organisms. In: Lyman WJ, Reehl WF, Rosenblatt DH, eds. Handbook of chemical property estimation methods. New York: McGraw Hill Book Co., 5-1 to 5-30.

Calingasan NY, Uchida K, Gibson GE. 1999. Protein-bound acrolein: A novel marker of oxidative stress in Alzheimer's disease. J Neurochem 72(2):751-756.

Cantoni C, Bianchi MA, Renon P, et al. 1969. [Bacterial and chemical alterations during souring in salted pork.] Atti Sot Ital Sci Vet 23:752-756. (Italian)

Cao Z, Hardej D, Trombetta LD, et al. 2003. Induction of cellular glutathione and glutathione S-transferase by 3H-1,2-dithiole-3-thione in rat aortic smooth muscle A10 cells: Protection against acrolein-induced toxicity. Atherosclerosis 166:291-301.

CARB. 1991. Assessment of indoor concentrations, indoor sources, and source emissions of selected volatile organic compounds. Acrolein. Sacramento, CA: California Air Resources Board.

CARB. 1992. Indoor pollutant concentration and exposures. Section 6. Main study sampling design. Sacramento, CA: California Air Resources Board.

*Carpenter CP, Smyth HF Jr., Pozzani UC. 1949. The assay of acute vapor toxicity, and the grading and interpretation of results on 96 chemical compounds. J Ind Hyg Toxicol 31:343-346.

Casella IG, Contursi M. 2004. Quantitaive analysis of acrolein in heated vegetable oils by liquid chromatography with pulsed electrochemical detection. J Agric Food Chem 52(19):5816-5821.

Cassee FR, Groten JP, Feron VJ. 1996. Changes in the nasal epithelium of rats exposed by inhalation to mixtures of formaldehyde, acetaldehyde, and acrolein. Fundam Appl Toxicol 29:208-218.

Catilina P, Thieblot L, Champelix J. 1966. [Experimental respiratory lesions by inhalation of acrolein in the rat.] Arch Mal Prof (France) 27:857-867. (French)

CEPA. 2002. Pesticide volatile organic compound emissions inventory 2002 update: Estimated emissions January-December 2001. Sacramento, CA: California Environmental Protection Agency.

*Champeix J, Courtial L, Perche E, et al. 1966. [Acute bronchopneumopathy from acrolein vapors.] Arch Mal Prof (France) 27:794-796. (French)

Chaviano AH, Gill WB, Ruggiero KJ, et al. 1985. Experimental cytoxan cystitis and prevention by acetylcysteine. J Urol 134:598-600.

Chung FL, Young R, Hecht SS. 1984. Formation of cyclic $1,N^2$ -propanodeoxyguanosine adducts in DNA upon reaction with acrolein or crotonaldehyde. Cancer Res 44:990-995.

Clewell HJ III, Andersen ME. 1985. Risk assessment extrapolations and physiological modeling. Toxicol Ind Health 1(4):111-131.

Costa DL, Kutzman RS, Lehmann JR, et al. 1986. Altered lung function and structure in the rat after subchronic exposure to acrolein. Am Rev Respir Dis 133:286-291.

*Crane CR, Sanders DC, Endecott BR, et al. 1986. Inhalation toxicology. VII. Times to incapacitation and death for rats exposed continuously to atmospheric acrolein vapor. ADA1696665.

CRISP. 2006. Acrolein. Computer Retrieval of Information on Scientific Projects. http://crisp.cit.nih.gov/. December 15, 2006.

Crook TR, Souhami RL, McLean AE. 1986a. Cytotoxicity, DNA cross-linking, and single strand breaks induced by activated cyclophosphamide and acrolein in human leukemia cells. Cancer Res 46:5029-5034.

Curren RD, Yang LL, Conklin PM, et al. 1988. Mutagenesis of xeroderma pigmentosum fibroblasts by acrolein. Mutat Res 209:17-22.

Dahlgren SE, Dalen H, Dalhamn T. 1972. Ultrastructural observations on chemically induced inflammation in guinea pig trachea. Virchows Arch Abt B Zelpathol 11:211-223.

*Dahlgren SE, Dalhamn T. 1972. Antiinflammatory action of phenylmetholaxadiozole (PMO). Experimental study on the guinea pig trachea. Acta Pharmacol Toxicol 31:193-202.

Daubert TE, Danner RP. 1987. Acrolein. In: Physical and thermodynamic properties of pure chemicals. Columbus, OH: Greyden Press.

Davis TRA, Battista SP, Kensler CJ. 1967. Mechanism of respiratory effects during exposure of guinea pigs to irritants. Arch Environ Health 15:412-419.

Dawson J, Norbeck K, Anundi I, et al. 1984. The effectiveness of N-acetylcysteine in isolated hepatocytes against the toxicity of paracetamol, acrolein, and paraquat. Arch Toxicol 55:11-15.

Destaillats H, Spaulding RS, Charles J. 2002. Ambient air measurement of acrolein and other carbonyls at the Oakland-San Francisco Bay Bridge toll plaza. Environ Sci Technol 36:2227-2235.

Dong J-Z, Glass JN, Moldoveanu SC. 2000. A simple GC-MS technique for the analysis of vapor phase mainstream cigarette smoke. J Microcolumn Sep 12(3):145-152.

*Draminski W, Eder E, Henschler D. 1983. A new pathway of acrolein metabolism in rats. Arch Toxicol 52:243-247.

Dupbukt JM, Sundqvist K, Grafstroem RC. 1987. Aldehyde-induced cytotoxicity in cultured human bronchial epithelial cells. Altern Lab Anim 14:146-150.

Eder E, Henschler D, Neudecker T. 1982. Mutagenic properties of allylic and α , β -unsaturated compounds: Consideration of alkylating mechanisms. Xenobiotica 12:831-848.

Edney EO, Shepson PB, Kleindienst TE, et al. 1986. The photooxidation of allyl chloride. Int J Chem Kinet 18:597-608.

Egle JL Jr. 1972. Retention of inhaled formaldehyde, propionaldehyde, and acrolein in the dog. Arch Environ Health 25:119-124.

*Egle JL Jr. 1973. Pressor effects of 4 aliphatic aldehydes and their interactions with ¹⁴C-norepinephrine in an isolated smooth muscle preparation. Fed Proc 32(3 Part 1):795.

*Egle JL Jr, Hudgins PM. 1974. Dose-dependent sympathomimetic and cardioinhibitory effects of acrolein and formaldehyde in the anesthetized rat. Toxicol Appl Pharmacol 28(3):358-366.

Einhorn IN. 1975. Physiological and toxicological aspects of smoke produced during the combustion of polymeric materials. Environ Health Perspect 11:163-189.

Eisler R. 1994. Acrolein hazards to fish, wildlife, and invertebrates: A synoptic review. Contaminant hazard review. Biol Surv Biol Rep 23:1-15.

Ellenberger J, Mohn GR. 1977. Mutagenic activity of major mammalian metabolites of cyclophosphamide toward several genes of *Escherichia coli*. J Toxicol Environ Health 3:637-650.

Environment Canada. 2000. Priority substances list assessment report. Acrolein. Canadian Environmental Protection Act, 1999. Priority substances list assessment report. Environment Canada, Health Canada. http://www.ec.gc.ca/substances/ese/eng/psap/final/acrolein.cfm. July 18, 2005.

EPA. 1979. Water-related environmental fate of 129 priority pollutants. Washington, DC: U.S. Environmental Protection Agency. EPA440479029A, 20-1 to 20-11.

EPA. 1980. Ambient water quality criteria for acrolein. Washington, DC: U.S. Environmental Protection Agency. EPA440580016. PB81117277.

EPA. 1983. Human exposure to atmospheric concentrations of selected chemicals. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning Standards. PB83265249, 2-1 to 2-20.

EPA. 1985. Health and environmental effects profile for acrolein. Cincinnati, OH: U.S. Environmental Protection Agency. ECAO-CIN-P150.

EPA. 1986. Method 8030A. Acrolein and acrylonitrile by gas chromatography. In: Test methods for evaluating solid waste. 3rd ed. Washington, DC: U.S. Environmental Protection Agency. SW 846.

EPA. 1988a. Subpart B–Schedule for land disposal prohibition and establishment of treatment standards. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.11.

EPA. 1988b. Recommendations for and documentation of biological values used in risk assessment. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office. EPA60068708.

*EPA. 1989a. Interim methods for development of inhalation references doses. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA600888066F.

EPA. 1989b. Land disposal restrictions for third scheduled wastes. U.S. Environmental Protection Agency. Fed Regist 54:48372-48374, 48413-48414.

EPA. 1990. Interim methods for development of inhalation reference concentrations. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Office of Research and Development, Environmental Criteria and Assessment Office. EPA600890066A. PB90238890.

EPA. 1991. National pretreatment program: Report to Congress. U.S. Environmental Protection Agency, Office of Water. PB91228726. http://www.epa.gov/npdes/pubs/owm0244.pdf. May 22, 2007.

EPA. 1993. A summary of the emissions characterization and noncancer respiratory effects of wood smoke. Research Triangle Park, NC: U.S. Environmental Protection Agency. EPA453R93036. PB94186731.

EPA. 1994a. Method 8316. Acrylamide, acrylonitrile and acrolein by high performance liquid chromatography (HPLC). In: Test methods for evaluating solid waste, physical/chemical methods. U.S. Environmental Protection Agency. SW-846. http://www.epa.gov/epaoswer/hazwaste/test/pdfs/8316.pdf. November 12, 2007.

EPA. 1994b. Methods for derivation of inhalation reference concentrations and application of inhalation dosimetry. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office. EPA600890066F.

EPA. 1996. Method 0100. Sampling for formaldehyde and other carbonyl compounds in indoor air. Washington, DC: U.S. Environmental Protection Agency.

EPA. 1997. Special report on environmental endocrine disruption: An effects assessment and analysis. Washington, DC: U.S. Environmental Protection Agency, Risk Assessment Forum. EPA630R96012.

EPA. 1998a. Hazardous air pollutants. U.S. Environmental Protection Agency. www.epa.gov/ttn/chief/trends/98/chapter7.pdf. March 18, 2005.

*EPA. 1998c. National quality and emissions trend report, 1998. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA454R00003.

*EPA. 1998b. Study of hazardous air pollutant emissions from electric utility steam generating units. Final report to Congress. Volume 1. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA453R98004A.

EPA. 1999. National air quality and emissions trend report, 1999. Research Triangle Park, NC: U.S. Environmental Protection Agency.

EPA. 2001a. Method 1624. Revision B. Volatile organic compounds by isotope dilution GC/MS. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR, Part 136, Appendix A.

EPA. 2001b. The projection of mobile source air toxics from 1996 to 2007: Emissions and concentrations. U.S. Environmental Protection Agency. EPA420R01038.

EPA. 2001c. Method 603: Acrolein and acrylonitrile. U.S. Environmental Protection Agency. Code of Federal Regualtions. 40 CFR Pt.136, App. A, Meth. 603, 58-67.

EPA. 2002. National recommended water quality criteria. Washington, DC: U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. EPA822R02047. http://www.epa.gov/waterscience/pc/revcom.pdf. February 15, 2005.

EPA. 2003. Toxicological review of acrolein. In support of summary information on the Integrated Risk Information System (IRIS). Washington, DC: U.S. Environmental Protection Agency.

EPA. 2004a. AIRData. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. http://oaspub.epa.gov/aqspub/AQS_Annsum.AnnualSummary. March 18, 2005.

EPA. 2004b. Hazardous air pollutants. Washington, DC: U.S. Environmental Protection Agency. United States Code. 42 USC 7412. http://www.epa.gov/ttn/atw/orig189.html. February 15, 2005.

EPA. 2005a. Acute exposure guideline levels (AEGLs). Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. http://www.epa.gov/oppt/aegl/chemlist.htm. March 28, 2005.

EPA. 2005b. Designated as hazardous substances in accordance with Section 311(b)(2)(A) of the Clean Water Act. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 116.4. http://www.epa.gov/ttn/atw/orig189.html. February 15, 2005.

EPA. 2005c. Pesticides classified for restricted use. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 152.175. http://www.epa.gov/epacfr40/chapt-I.info/chitoc.htm. February 16, 2005.

EPA. 2005d. Regulated toxic substances and threshold quantities for accidental release prevention. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 68.130. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 16, 2005.

EPA. 2005e. Reportable quantities of hazardous substances designated pursuant to Section 311 of the Clean Water Act. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 117.3. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 16, 2005.

EPA. 2005f. Superfund, emergency planning, and community right-to-know programs. Designation, reportable quantities, and notifications. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 302.4. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 15, 2005.

EPA. 2005g. Superfund, emergency planning, and community right-to-know programs. Extremely hazardous substances and their threshold planning quantities. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 355, Appendix A. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 15, 2005.

EPA. 2005h. Superfund, emergency planning, and community right-to-know programs. Toxic chemical release reporting. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 372.65. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 16, 2005.

EPA. 2005i. Toxic endpoints for accidental release prevention. Washington, DC: U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 68, Appendix A. http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm. February 16, 2005.

EPA. 2005j. Toxic chemical release inventory reporting forms and instructions: Revised 2004 version. Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986). U.S. Environmental Protection Agency. Office of Environmental Information. EPA260B05001.

EPA. 2007. Acrolein. Modernized STORET system: Regular results by geographic location (stormodb): Characteristic search by CAS number. U.S. Environmental Protection Agency. http://www.epa.gov/storet/dbtop.html. November 9, 2007.

Epstein SS, Arnold E, Andrea J, et al. 1972. Detection of chemical mutagens by the dominant lethal assay in the mouse. Toxicol Appl Pharmacol 23:288-325.

Esterbauer H, Ertl A, Scholz N. 1976. The reaction of cysteine with α , β -unsaturated aldehydes. Tetrahedron 32:285-289.

Esterbauer H, Zollner H, Scholz N. 1975. Reaction of glutathione with conjugated carbonyls. Z Natiirforsh 30:466-473.

Etzkorn WG, Pedersen SE, Snead TE. 2002. Acrolein and derivatives. In: Kirk-Othmer encyclopedia of chemical technology. http://www.mrw.interscience.wiley.com/kirk/articles/acroetzk.a01/abstract.html. February 24, 2005.

FEDRIP. 2006. Acrolein. Federal Research in Progress database. Springfield, VA: National Technical Information Service. October 25, 2006.

*Feron VJ, Kruysse A. 1977. Effects of exposure to acrolein vapor in hamsters simultaneously treated with benzo(a)pyrene or diethylnitrosamine. J Toxicol Environ Health 3:379-394.

Feron VJ, Kruysse A, Til HP, et al. 1978. Repeated exposure to acrolein vapour: Subacute studies in hamsters, rats and rabbits. Toxicology 9:47-58.

Feron VJ, Til HP, deVrijer RA, et al. 1991. Aldehydes: Occurrence, carcinogenic potential, mechanism of action, and risk assessment. Mutat Res 259:363-385.

Finkelstein EI, Ruben J, Koot CW, et al. 2005. Regulation of constitutive neutrophil apoptosis by the α , β -unsaturated aldehydes acrolein and 4-hydroxynonenal. Am J Physiol Lung Cell Mol Physiol 289:L1019-L1028.

Fleer R, Brendel M. 1982. Toxicity,interstrand cross-links, and DNA fragmentation induced by activated cyclophosphamide in yeast: Comparative studies on 4-hydroxyperoxy-cyclophosphamide, its monofunctional analogue, acrolein, phosphoramide mustard, and nor-nitrogen mustard. Chem Biol Interact 39:1-15.

Florin I, Rutberg L, Curvall M, et al. 1980. Screening of tobacco smoke constituents for mutagenicity using the Ames' test. Toxicology 15:219-232.

Foiles PG, Akerkar SH, Chung FL. 1989. Application of an immunoassay for cyclic acrolein deoxyguanosine adducts to assess their formation in DNA of *Salmonella typhimurium* under conditions of mutation induction by acrolein. Carcinogenesis 10:87-90.

Fomon SJ. 1966. Body composition of the infant. Part I. The male reference infant. In: Faulkner F, ed. Human development. Philadelphia, PA: WB Saunders, 239-246.

Fomon SJ, Haschke F, Ziegler EE, et al. 1982. Body composition of reference children from birth to age 10 years. Am J Clin Nutr 35:1169-1175.

Furlanut M, Franceschi L. 2003. Pharmacology of ifosfamide. Oncology 65:2-6.

Gaffney JS, Streit GE, Spall WD, et al. 1987. Beyond acid rain. Do soluble oxidants and organic toxins interact with SO_2 and NO_X to increase ecosystem effects? Environ Sci Technol 21(6):519-524.

Gardner EP, Sperry PD, Calvert JG. 1987. Photodecomposition of acrolein in 0_2 -N₂ mixtures. J Phys Chem 91:1922-1930.

Ghilarducci DP, Tjeerdema RS. 1995. Fate and effects of acrolein. Rev Environ Contam Toxicol 144:95-146.

Ginsberg GL, Perkovich Foos B, Firestone, MP. 2005. Review and analysis of inhalation dosimetry methods for application to children's risk assessment. J Toxicol Environ Health A 68:573-615.

Giwercman A, Carlsen E, Keiding N, et al. 1993. Evidence for increasing incidence of abnormalities of the human testis: A review. Environ Health Perspect Suppl 101(2):65-71.

Gochfeld M. 1995. Fire and pyrolysis products. In: DeYoung L, ed. Environmental medicine. St. Louis, MO: Mosby, 470-478.

Goldfrank LR, Flomenbaum NE, Lewin NA, et al. 2002. Toxicologic emergencies. 7th ed. New York, NY:McGraw-Hill, Medical Publishing Division, 1470.

Gomez-Ramos A, Diaz-Nido J, Smith MA, et al. 2003. Effect of the lipid peroxidation product acrolein on tau phosphorylation in neural cells. J Neurosci Res 71(6):863-870.

*Gosselin B, Wattel F, Chopin C, et al. 1979. A case of acute acrolein poisoning. Nouv Presse Med 8:2469-2472.

Graedel TE, Farrow LA, Weber TA. 1978. Urban kinetic chemical calculations with altered source conditions. Atmos Environ 12:1403-1412.

Grafstrom RC, Dypbukt JM, Willey JC, et al. 1988. Pathobiological effects of acrolein in cultured human bronchial epithelial cells. Cancer Res 48:1717-1721.

*Green MA, Egle JL. 1983a. Effects of intravenous acetaldehyde acrolein, formaldehyde and propionaldehyde on arterial blood pressure following acute quanethidine treatment. Res Commun Chem Pathol Pharmacol 40:337-340.

Grosjean D. 1990. Atmospheric chemistry of toxic contaminants. 3. Unsaturated aliphatics: Acrolein, acrylonitrile, maleic anhydride. J Air Waste Manage Assoc 40:1664-1668.

Grosjean D, Wright B. 1983. Carbonyls in urban fog, ice fog, cloudwater and rainwater. Atmos Environ 17:2093-2096.

Grosjean D, Grosjean E, Gertler AW. 2001. On-road emissions of carbonyls from light-duty and heavyduty vehicles. Environ Sci Technol 35:45-53.

Guerin MR, Higgins CE, Jenkins RA. 1987. Measuring environmental emissions from tobacco combustion: Sidestream cigarrette smoke literature review. Atmos Environ 21:291-297.

Gurtoo HL, Marinello AJ, Berrigan MJ, et al. 1983. Effect of thiols on toxicity and carcinostatic activity of cyclophosphamide. Semin Oncol 10(Suppl 1):35-45.

*Gurtoo HL, Marinello AJ, Struck RF, et al. 1981b. Studies on the mechanism of denaturation of cytochrome P-450 by cyclophosphamide and its metabolites. J Biol Chem 256:11691-11701.

Guzelian PS, Henry CJ, Olin SS, eds. 1992. Similarities and differences between children and adults: Implications for risk assessment. Washington, DC: International Life Sciences Institute Press.

*Hales CA, Barkin PW, Jung W, et al. 1988. Synthetic smoke with acrolein but not hydrogen chloride produces pulmonary edema. J Appl Physiol 64:1121-1133.

Hansch C, Leo A. 1995. Exploring QSAR - Fundamentals and applications in chemistry and biology. Washington, DC: American Chemical Society.

Harley RA, Case GR. 1994. Modelling the concentrations of gas-phase toxic organic air pollutants: Direct emissions and atmospheric formation. Environ Sci Technol 28:88-98.

Hauser TR, Bromberg SM. 1982. EPAs monitoring program at Love Canal 1980. Environ Monit Assess 2:249-272.

HazDat. 2006. Acrolein. HazDat Database: ATSDR's Hazardous Substance Release and Health Effects Database. Atlanta, GA: Agency for Toxic Substances and Disease Registry. www.atsdr.cdc.gov/hazdat.html. December 21, 2006.

Hemminki K, Falck K, Vainio H. 1980. Comparison of alkylation rates and mutagenicity of directly acting industrial and laboratory chemicals. Epoxides, glycidyl ethers, methylating and ethylating agents, halogenated hydrocarbons, hydrazine derivatives, aldehydes, thiuram and dithiocarbamate derivatives. Arch Toxicol 46:277-286.

Henriks-Eckerman M-L, Engström B, Anäs E. 1990. Thermal degradation products of steel protective paints. Am Ind Hyg Assoc J 51(4):241-244.

Hess LG, Kurtz AN, Stanton DB. 1978. Acrolein and Derivatives. In: Grayson M, Eckroth D, eds. Kirk-Othmer encyclopedia of chemical technology. 3rd ed. Vol. 1. New York, NY: John Wiley and Sons, 277-297.

Highsmith VR, Zweidinger RB. 1988. Characterization of indoor and outdoor air associated with residences using woodstoves: A pilot study. Environ Int 14:213-219.

*Hoberman AM. 1987. Developmental toxicity (embryo/fetal toxicity and teratogenic potential) study of acrolein administered orally (stomach tube) to New Zealand white rabbits. Houston, TX: Baker Performance Chemicals, Inc.

Hodgkin JH, Galbraith MN, Chong YK. 1982. Combustion products from burning polyethylene. J Macromol Sci Chem 17:35-43.

Hoel DG, Davis DL, Miller AB, et al. 1992. Trends in cancer mortality in 15 industrialized countries, 1969-1986. J Natl Cancer Inst 84(5):313-320.

Hoffmann D, Brunnemann KD, Gori GB, et al. 1975. On the carcinogenicity of marijuana smoke. Recent Adv Phytochem 9:63-81.

Holzer G, Oro J, Bertsch W. 1976. Gas chromatographic-mass spectrometric evaluation of exhaled tobacco smoke. J Chromatogr 126:771-785.

Horton AD, Guerin MR. 1974. Determination of acetaldehydes and acrolein in the gas phase of cigarette smoke using cryothermal gas chromatography. Tobacco Sci 176:45-48.

HSDB. 2007. Acrolein. Hazardous Substances Data Bank. National Library of Medicine. http://toxnet.nlm.nih.gov. March 08, 2007.

Hurley GF, Ketchem NH. 1978. A solid sorbent personal sampling method for the determination of acrolein in air. Am Ind Hyg Assoc J 39:615-619.

IARC. 1985. IARC monographs on the evaluation of carcinogenic risk of chemicals to humans. Vol. 36. Lyon, France: World Health Organization, 133-161.

IARC. 1995. Acrolein. IARC monographs on the evaluation of carcinogenic risks to humans. Dry cleaning, some chlorinated solvents and other industrial chemicals. Lyon, France: World Health Organization. International Agency for Research on Cancer.

IARC. 2004. Overall evaluations of carcinogenicity to humans: As evaluated in IARC monographs volumes 1-82 (a total of 900 agents, mixtures and exposures). Lyon, France: World Health Organization. International Agency for Research on Cancer. http://www-cie.iarc.fr/monoeval/crthall.html. February 15, 2005.

IRIS. 2005. Acrolein. Washington, DC: Integrated Risk Information System. U.S. Environmental Protection Agency. http://www.epa.gov/iris/subst/. February 15, 2005.

IRIS. 2007. Acrolein. Washington, DC: Integrated Risk Information System. U.S. Environmental Protection Agency. http://www.epa.gov/iris/subst/. May 22, 2007.

ITII. 1988. Toxic and hazardous industrial chemicals safety manual. Tokyo, Japan: The International Technical Information Institute, 14-15.

IUR. 2002. Inventory update rule. Toxic Substance Control Act (TSCA). Inventory update database. Washington, DC: U.S. Environmental Protection Agency. http://www.epa.gov/opt/uiru/iur02/index.htm. February 7, 2005.

Iype PT. 1987. Antibody-mediated detection systems for acrolein—DNA adducts [Meeting Abstract]. Proc Annu Meet Am Assoc Cancer Res 29:A368.

Izard C. 1973. [Mutagenic effects of acrolein and its two epoxides, glycidol and glycidal in *Saccharomyces cerevisiae*.] C R Acad Sci, Ser D 276:3037-3040. (French)

Jacobson B, Smith J. 1990. Aquatic field dissipation for acrolein. Baker Performance Chemicals. Submitted to the U.S. Environmental Protection Agency. MRID41513204.

*Jaeger RJ, Murphy SD. 1973a. Alterations of barbiturate action following l,l-dichloroethylene, corticosterone, or acrolein. Arch Int Pharmacodyn Ther 205:281-292.

*Jakab GJ. 1977. Adverse effect of a cigarette smoke component, acrolein, on pulmonary antibacterial defenses and on viral-bacterial interactions in the lung. Am Rev Respir Dis 115:33-38.

Johanson CE. 1980. Permeability and vascularity of the developing brain: Cerebellum vs. cerebral cortex. Brain Res 190(1):3-16.

Jonsson A, Persson KA, Grigoriadis V. 1985. Measurements of some low molecular weight oxygenated, aromatic, and chlorinated hydrocarbons in ambient air and in vehicle emissions. Environ Int 11:383-392.

Kaijser GP, Korst A, Beijnen JH, et al. 1993. The analysis of ifosfamide and it metabolites (review). Anticancer Res 13(5A):1311-1324.

Kaminskas LM, Pyke SM, Burcham PC. 2004. Strong protein adduct trapping accompanies abolition of acrolein-mediated hepatotoxicity by hydralazine in mice. J Pharmacol Exp Ther 310(3):1003-1010.

Kane LE, Alarie Y. 1977. Sensory irritation to formaldehyde and acrolein during single and repeated exposures in mice. Am Ind Hyg Assoc J 38:509-522.

Kane LE, Alarie Y. 1978. Evaluation of sensory irritation from acrolein-formaldehyde mixtures. Am Ind Hyg Assoc J 39:270-274.

Kane LE, Alarie Y. 1979a. Interactions of sulfur dioxide and acrolein as sensory irritants. Toxicol Appl Pharmacol 48:305-316.

*Kaplan HL. 1987. Effects of irritant gases on avoidance-escape performance and respiratory response of the baboon. Toxicology 47:165-180.

*Kawabata TT, White KL Jr. 1988a. Enhancement of *in vivo* and *in vitro* murine immune responses by the cyclophosphamide metabolite acrolein. Cancer Res 48:41-45.

Kawanishi M, Matsuda T, Nakayama A, et al. 1998. Molecular analysis of mutations induced by acrolein in human fibroblast cells using supF shuttle vector plasmids. Mutat Res 417(2-3):65-73.

Kaye CM. 1973. Biosynthesis of mercapturic acids from ally1 alcohol, ally1 esters, and acrolein. Biochem J 134:1093-1101.

Kaye CM, Young L. 1972. Synthesis of mecapturic acids from ally1 compounds in the rat. Biochem J 127:87.

Kaye CM, Young L. 1974. Acrolein as a possible metabolite of cyclophosphamide in man. Biochem Soc Trans 2:308-310.

Kennedy ER, O'Connor PF, Gagnon YT. 1984. Determination of acrolein in air as an oxazolidine derivative by gas chromatography. Anal Chem 56:2120-2123.

Khudoley W, Mizgireuv I, Pliss GB. 1987. The study of mutagenic activity of carcinogens and other chemical agents with *Salmonella typhimurium* assays: Testing of 126 compounds. Arch Geschwulstforsh 57:453-462.

*Kilburn KH, McKenzie WN. 1978. Leukocyte recruitment to airways by aldehyde-carbon combinations that mimic cigarette smoke. Lab Invest 38:134-142.

King M. 1982. Teratology study of acrolein in rats. Houston, TX: Magna Corporation.

King M. 1984. Two generation study of acrolein in albino rats. Houston, TX: Magna Corporation.

*Kishi M, Satoh S, Tsuchiya H, et al. 1975. [Effects of inhalation of the vapor from heated edible oil on the circulatory and respiratory systems in rabbits.] Shokuhin Eiseigaku Zasshi 16:318-323. (Japanese)

Kissel CL, Brady JL, Guerra AM, et al. 1978. Analysis of acrolein in aged aqueous media. Comparison of various analytical methods with bioassays. J Agric Food Chem 26:1338-1343.

Komori M, Nishio K, Kitada M, et al. 1990. Fetus-specific expression of a form of cytochrome P-450 in human livers. Biochemistry 29(18):4430-4433.

Koostra PR, Herbold HA. 1995. Automated solid-phase extraction and coupled-column reversed-phase liquid chromatography for the trace-level determination of low-molecular-mass carbonyl compounds in air. J Chromatogr A 697:203-211.

Krill RM, Sonzogni WC. 1986. Chemical monitoring of Wisconsin's groundwater. J Am Water Works Assoc 78:70-75.

Krishnan K, Andersen ME. 1994. Physiologically based pharmacokinetic modeling in toxicology. In: Hayes AW, ed. Principles and methods of toxicology. 3rd ed. New York, NY: Raven Press, Ltd., 149-188.

Krishnan K, Andersen ME, Clewell HJ, et al. 1994. Physiologically based pharmacokinetic modeling of chemical mixtures. In: Yang RSH, ed. Toxicology of chemical mixtures: Case studies, mechanisms, and novel approaches. San Diego, CA: Academic Press, 399-437.

Krokan H, Grafstrom RC, Sundqvist K, et al. 1985. Cytotoxicity, thiol depletion and inhibition of 06-methylguanine-DNA methyltransferase by various aldehydes in cultured human bronchial fibroblasts. Carcinogenesis 6:1755-1760.

*Kutzman RS. 1981. A subchronic inhalation study of Fischer 344 rats exposed to 0, 0.4, 1.4, or 4.0 ppm acrolein. Brookhaven National Laboratory. National Toxicology Program. Interagency agreement No. 221-Y01-ES-9-0043.

Kutzman RS, Popenoe EA, Schmaeler M, et al. 1985. Changes in rat lung structure and composition as a result of subchronic exposure to acrolein. Toxicology 34:139-151.

Kutzman RS, Wehner RW, Haber SB. 1984. Selected responses of hypertension-sensitive and-resistant rats to inhaled acrolein. Toxicology 31:53-65.

Lacroix M, Burckel H, Foussereau J, et al. 1976. Irritant dermatitis from diallylglycol carbonate monomer in the optical industry. Contact Dermatitis 2:183-195.

*Lam C-W, Casanova M, Heck HD. 1985. Depletion of nasal mucosal glutathione by acrolein and enhancement of formaldehyde-induced DNA-protein cross-linking by simultaneous exposure to acrolein. Arch Toxicol 51:67-71.

*Lame MW, Segall HJ. 1987. *In vitro* effects of *trans*-4-hydroxy-2-alkenals on mouse liver cytochrome *P*-450. Chem-Biol Interact 62:59-74.

Lau C, Fiedler H, Hutzinger O, Schwind KH, et al. 1997. Levels of selected organic compounds in materials for candle production and human exposure to candle emissions. Chemosphere 34(3-7):1623-1630.

Leach CL, Hatoum NS, Ratajczak HV, et al. 1987. The pathologic and immunologic effects of inhaled acrolein in rats. Toxicol Lett 39:189-198.

*Le Bouffant L, Martin JC, Daniel H, et al. 1980. Action of intensive cigarette smoke inhalation on the rat lung. Role of particulate and gaseous cofactors. J Natl Cancer Inst 273-284.

Leeder JS, Kearns GL. 1997. Pharmacogenetics in pediatrics: Implications for practice. Pediatr Clin North Am 44(1):55-77.

Lees PS. 1995. Combustion products and other firefighter exposures. Occup Med 10(4):691-706.

Leikauf GD, Doupnik CA, Leming LM, et al. 1989a. Sulfidopeptide leukotrienes mediate acroleininduced bronchial hyperresponsiveness. J Appl Physiol 66(4):1838-1845.

Leung H-W. 1993. Physiologically-based pharmacokinetic modeling. In: Ballantyne B, Marrs T, Turner P, eds. General and applied toxicology. Vol. 1. New York, NY: Stockton Press, 153-164.

Lewis RJ. 1997. Acrolein. In: Hawley's condensed chemical dictionary. New York, NY: John Wiley & Sons, Inc., 17.

Li H, Wang LH, Kaphalia B, et al. 2004. Quantitation of acrolein-protein adducts: Potential biomarker of acrolein exposure. J Toxicol Environ Health A 67(6):513-524.

Lide DR, ed. 2000. Physical constants of organic compounds. In: CRC handbook of chemistry and physics. Boca Raton, FL: CRC Press, 3-287.

*Lijinsky W, Andrews AW. 1980. Mutagenicity of vinyl compounds in *Salmonella typhimurium*. Teratog Carcinog Mutagen 1:259-267.

Lijinsky W, Reuber MD. 1987. Chronic carcinogenesis studies of acrolein and related compounds. Toxicol Ind Health 3:337-345.

Lipari F, Swarin SJ. 1982. Determination of formaldehyde and other aldehydes in automobile exhaust with an improved 2,4-dinitrophenylhydrazine method. J Chromatogr 247:297-306.

Lipari F, Dasch JM, Scruggs WF. 1984. Aldehyde emissions from woodburning fireplaces. Environ Sci Technol 18:326-330.

Liu X, Jeffries HE, Sexton KG. 1999a. Atmospheric photochemical degradation of 1,4-unsaturated dicarbonyls. Environ Sci Technol 33:4212-4220.

Liu X, Jeffries HE, Sexton KG. 1999b. Hydroxyl radical and ozone initiated photochemical reactions of 1,3-butadiene. Atmos Environ 33:3005-3022.

Livingston AL. 1978. Forage plant estrogens. J Toxicol Environ Health 4(2-3):301-324.

Loquet C, Toussaint G, Letalaer JY. 1981. Studies on mutagenic constituents of apple brandy and various alcoholic beverages collected in western France, a high incidence area for esophageal cancer. Mutat Res 88:155-164.

Lue-Hing C, Lordi DT, Kelada NP. 1981. Fate of priority pollutants in large municipal treatment plants. AICHE Symp Ser 77:144-150.

Luo J, Shi R. 2004. Acrolein induces axolemmal disruption, oxidative stress, and mitochondrial impairment in spinal cord tissue. Neurochem Int 44(7):475-486.

Luo J, Shi R. 2005. Acrolein induces oxidative stress in brain mitochondria. Neurochem Int 46:243-252.

Luo J, Robinson JP, Shi R. 2005. Acrolein-induced cell death in PC12 cells: Role of mitochondriamediated oxidative stress. Neurochem Int 47:449-457.

Lutz D, Eder E, Neudecker T, et al. 1982. Structure-mutagenicity relationship in α , β -unsaturated carbonylic compounds and their corresponding allylic alcohols. Mutat Res 93:305-315.

Lyman WJ. 1982. Adsorption coefficient for soils and sediments. In: Lyman WJ, Reehl WF, Rosenblatt DH, eds. Handbook of chemical property estimation methods. Chapter 4. New York, NY: McGraw Hill Book Co.

Lyon JP, Jenkins LJ Jr., Jones RA, et al. 1970. Repeated and continuous exposure of laboratory animals to acrolein. Toxicol Appl Pharmacol 17:726-732.

Magin DF. 1980. Gas chromatography of simple monocarbonyls in cigarette whole smoke as benzyloxime derivatives. J Chromatogr 202:255-261.

Mahut B, Delacourt C, de Blic J, et al. 1993. Bronchiectasis in a child after acrolein inhalation. Chest 104(4):1286-1287.

Maldotti A, Chiorboli C, Bignozzi CA, et al. 1980. Photooxidation of 1,3-butadiene containing systems rate constant determination for the reaction of acrolein with hydroxyl radicals. Int J Chem Kinet 12:905-913.

Manning DL, Maskarinec MP, Jenkins RA, et al. 1983. High performance liquid chromatographic determination of selected gas phase carbonyls in tobacco smoke. J Assoc Off Anal Chem 66:8-12.

Marnett LJ, Hurd HK, Hollstein MC, et al. 1985. Naturally occurring carbonyl compounds are mutagens in Salmonella tester strain TA104. Mutat Res 148:25-34.

Materna BL, Jones JR, Sutton PM, et al. 1992. Occupational exposures in California wildland fire fighting. Am Ind Hyg Assoc J 53(1):69-76.

Mayr U, Butsch A, Schneider S. 1992. Validation of two *in vitro* test systems for estrogenic activities with zearalenone, phytoestrogens, and cereal extracts. Toxicology 74(2-3):135-149.

McDonald JD, Zielinska B, Fujita EM, et al. 2000. Fine particle and gaseous emission rates from residential wood combustion. Environ Sci Technol 34:2080-2091.

Misonou Y, Asahi Mi, Yokoe S, et al. 2006. Acrolein produces nitric oxide through the elevation of intracellular calcium levels to induce apoptosis in human umbilical vein endothelial cells: Implications for smoke angiopathy. Nitric Oxide 14:180-187.

Mohamed MF, Kang D, Aneja VP. 2002. Volatile organic compounds in some urban locations in United States. Chemosphere 47:863-882.

Morello-Frosch RA, Woodruff TJ, Axelrad DA, et al. 2000. Air toxics and health risks in California: The public health implications of outdoor concentrations. Risk Anal 20(2):273-291.

Morris JB. 1996. Uptake of acrolein in the upper respiratory tract of the F344 rat. Inhal Toxicol 8:387-403.

Morris JB, Stanek J, Gianutsos G. 1999. Sensory nerve-mediated immediate nasal responses to inspired acrolein. J Appl Physiol 87(5):1877-1886.

Morris JB, Symanowicz PT, Olsen JE, et al. 2003. Immediate sensory nerve-mediated respiratory responses to irritants in healthy and allergic airway-diseased mice. J Appl Physiol 94(4):1563-1571.

Morselli PL, Franco-Morselli R, Bossi L. 1980. Clinical pharmacokinetics in newborns and infants: Age-related differences and therapeutic implications. Clin Pharmacokin 5(6):485-527.

Moule Y, Frayssinet C, Rousseau N. 1971. Effects of acrolein on transcription *in vitro*. Fed Eur Biochem Sot Lett 16:216-218.

Munsch N, De Recondo A, Frayssinet C. 1973. Effects of acrolein on DNA synthesis *in vitro*. FEBS Lett 30:286-290.

Munsch N, De Recondo AM, Frayssinet C. 1974. *In vitro* binding of ³H-acrolein to regenerating rat liver DNA polymerase. Experientia 30:1234-1236.

*Murphy SD. 1965. Mechanism of the effect of acrolein on rat liver enzymes. Toxicol Appl Pharmacol 7:833-843.

Murphy SD, Davis HV, Zaratzian VL. 1964. Biochemical effects in rats from irritating air contaminants. Toxicol Appl Pharmacol 6:520-528.

*Murphy SD, Klingshirn DA, Ulrich CE. 1963. Respiratory response of guinea pigs during acrolein inhalation and its modification by drugs. J Pharmacol Exper Therap 141:79-83.

Nardini M, Finkelstein ET, Reddy S, et al. 2002. Acrolein-induced cytotoxicity in cultured human bronchial epithelial cells. Modulation by alpha-tocopherol and ascorbic acid. Toxicology 170(3):173-185.

NAS/NRC. 1989. Biologic markers in reproductive toxicity. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.

Natusch DFS. 1978. Potentially carcinogenic species emitted to the atmosphere by fossil-fueled power plants. Environ Health Perspect 22:79-90.

Nazaroff WW, Singer BC. 2004. Inhalation of hazardous air pollutants from environmental tobacco smoke in U.S. residences. J Expo Anal Environ Epidemiol 14:S71-S77.

*Nielsen GD, Bakbo JC, Holst E. 1984. Sensory irritation and pulmonary irritation by airborne ally1 acetate, ally1 alcohol and ally1 ether compared to acrolein. Acta Pharmacol Toxicol 54:292-298.

NIOSH. 1988. National Occupational Exposure Survey (NOES) as of 5/10/88. National Institute for Occupational Safety and Health.

NIOSH. 1994. Method 2501. Acrolein. In: NIOSH manual of analytical methods. National Institute for Occupational Safety and Health.

NIOSH. 2005. NIOSH pocket guide to chemical hazards. Atlanta, GA: National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. http://www.cdc.gov/niosh/npg/npgdname.html. February 15, 2005.

Nishikawa H, Sakai T. 1995. Derivatization and chromatographic determination of aldehydes in gaseous and air samples. J Chromatogr A 710:159-165.

Nishikawa H, Hayakawa T, Sakai T. 1986. Determination of micro amounts of acrolein in air by gas chromatography. J Chromatog 370:327-332.

Nishikawa H, Hayakawa T, Sakai T. 1987a. Determination of acrolein and crotonaldeyde in automobile exhaust gas by gas chromatography with electroncapture detection. Analyst 112:859-862.

Nishikawa H, Hayakawa T, Sakai T. 1987b. Gas chromatographic determination of acrolein in rain water using bromination of 0-methyloxime. Analyst 112:45-48.

Nordone AJ, Kovacs MF, Doane R. 1997. ^[14]C Acrolein accumulation and metabolism in leaf lettuce. Bull Environ Contam Toxicol 58:787-792.

Nordone AJ, Matherly R, Bonnivier B, et al. 1996a. Effect of Magnacide[®] H herbicide residuals on water quality within wildlife refuges of the Klamath Basin, CA. Bull Environ Contam Toxicol 56(6):964-970.

Nordone AJ, Matherly R, Bonnivier B, et al. 1996b. The mobility and degradation of acrolein in agricultural canals treated with magnacide H herbicide. Chemosphere 32(5):807-814.

NRC. 1993. Pesticides in the diets of infants and children. Washington, DC: National Academy Press. National Research Council. PB93216091.

NTP. 1995. 13-Week gavage toxicity studies of allyl acetate, allyl alcohol, and acrolein in Fisher 344 rats and B6C3F1 mice. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. National Toxicology Program.

NTP. 2005. Report on carcinogens. 11th edition. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. National Toxicology Program. http://ntp-server.niehs.nih.gov/ntp/roc/toc11.html. February 15, 2005.

NTP. 2006. NTP technical report on the comparative toxicity studies of allyl acetate, allyl alcohol, and acrolein. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. National Toxicology Program.

Ogawa I, Fritz JS. 1985. Determination of low concentrations of low molecular weight aldehydes and ketones in aqueous samples. J Chromatogr 329:81-89.

OHM-TADS. 1988. Oil and Hazardous Materials-Technical Assistance Data System. December 5, 1988.

Ohno Y, Ormstad K. 1985. Formation, toxicity and inactivation of acrolein during biotransformation of cyclophosphamide as studies in freshly isolated cells from rat liver and kidney. Arch Toxicol 57:99-103.

O'Neil MJ. 2001. Acrolein. In: Budavari S, ed. The Merck index. Whitehouse Station, NJ: Merck & Co., Inc., 24.

OSHA. 2005a. Air contaminants. Occupational safety and health standards for shipyard employment. Washington, DC: Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1915.1000. http://www.osha.gov/comp-links.html. February 15, 2005.

OSHA. 2005b. Gases, vapors, fumes, dusts, and mists. Safety and health regulations for construction. Washington, DC: Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1926.55, Appendix A. http://www.osha.gov/comp-links.html. February 15, 2005.

OSHA. 2005c. Highly hazardous chemicals. Occupational safety and health standards. Washington, DC: Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.119, Appendix A. http://www.osha.gov/comp-links.html. February 15, 2005.

*OSHA. 2005d. Limits for air contaminants. Occupational safety and health standards. Washington, DC: Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1000. http://www.osha.gov/comp-links.html. February 15, 2005.

Otson R. 1987. Purgeable organics in Great Lakes raw and treated water. Int J Environ Anal Chem 31:41-53.

Owen GM, Brozek J. 1966. Influence of age, sex and nutrition on body composition during childhood adolescence. In: Faulkner F, ed. Human development. Philadelphia, PA: WB Saunders, 222-238.

Paci A, Rieutord A, Guillaume D, et al. 2000. Quantitative high-performance liquid chromatographic determination of acrolein in plasma after derivatization with Luminarin 3. J Chromatogr B Biomed Sci Appl 739:239-246.

Parent RA, Caravello HE, Balmer MF, et al. 1992b. One-year toxicity of orally administered acrolein to the beagle dog. J Appl Toxicol 12(5):311-316.

Parent RA, Caravello HE, Christian MS, et al. 1993. Developmental toxicity of acrolein in New Zealand white rabbits. Fundam Appl Toxicol 20(2):248-256.

Parent RA, Caravello HE, Hoberman AM. 1992c. Reproductive study of two generations of rats. Fundam Appl Toxicol 19:228-237.

Parent RA, Caravello HE, Long JE. 1991a. Oncogenicity study of acrolein in mice. J Am Coll Toxicol 10(6):647-659.

Parent RA, Caravello HE, Long JE. 1992a. Two-year toxicity and carcinogenicity study of acrolein in rats. J Appl Toxicol 12(2):131-139.

Parent RA, Caravello HE, San RH. 1996b. Mutagenic activity of acrolein in *S. typhimurium* and *E. coli*. J Appl Toxicol 16(2) : 103-108.

Parent RA, Caravello HE, Sharp, DE. 1996a. Metabolism and distribution of [2,3-¹⁴C]acrolein in Sprague-Dawley rats. J Appl Toxicol 16(5) :449-457.

Parent RA, Paust DE, Schrimpf MK, et al. 1991b. Gene mutation assay of acrolein in the CHO/HGPRT test system. J Appl Toxicol 11(2):91-95.

Parent RA, Paust DE, Schrimpf MK, et al. 1998. Metabolism and distribution of [2,3-¹⁴C]acrolein in Sprague-Dawley rats. II. Identification of urinary and fecal metabolites. Toxicol Sci 43(2):110-120.

Park YS, Misonou Y, Fujiwara N, et al. 2005. Induction of thioredoxin reductase as an adaptive response to acrolein in human umbilical vein endothelial cells. Biochem Biophys Res Comm 327:1058-1065.

*Patel JM, Block ER. 1985. Cyclophosphamide-induced depression of the antioxidant defense mechanisms of the lung. Exp Lung Res 8:153-165.

*Patel JM, Block ER, Hood CI. 1984. Biochemical indexes of cyclophosphamide-induced lung toxicity. Toxicol Appl Pharmacol 767:128-138.

Patel JM, Wood JC, Leibman KC. 1980b. The biotransformation of ally1 alcohol and acrolein in rat liver and lung preparations. Drug Metab Dispos 8:305-308.

Pawlowicz AJ, Munter T, Zhao Y, et al. 2006. Formation of acrolein adducts with 2'-deoxyadenosine in calf thymus DNA. Chem Res Toxicol 19:571-576.

Pellizzari ED, Michael LC, Thomas KW, et al. 1995. Identification of 1,3-butadiene, benzene, and other volatile organics from wok oil emissions. J Expo Anal Environ Epidemiol 5(1):77-87.

Peltonen K, Pfaffli P, Itkonen A. 1984. Determination of aldehydes in air as dimethone derivatives by gas chromatography with electron-capture detection. J Chromatogr 315:412-416.

Potts WJ, Lederer TS, Quast JF. 1978. A study of the inhalation toxicity of smoke produced upon pyrolysis and combustion of polyethylene foams. Part I. Laboratory studies. J Combust Toxicol 5:408-433.

*Rappaport BX, Hoffman MM. 1941. Urticaria due to aliphatic aldehydes. J Am Med Assoc 116:2656-2659.

Rathbun RE. 1998. Transport, behavior, and fate of volatile organic compounds in streams. In: Transport, behavior, and fate of volatile organic compounds in streams. Washington, DC. U.S. Geological Survey Professional Paper 1589.

Ren S, Kalhorn TF, Slattery JT. 1999. Inhibition of human aldehyde dehydrogenase 1 by the 4-hydroxycyclophosphamide degradation product acrolein. Drug Metab Dispos 27(1):133-137.

Renzetti NA, Bryan RJ. 1961. Atmospheric sampling for aldehydes and eye irritants in Los Angeles smog - 1960. J Air Pollut Control Assoc 11:421-427.

Riddick JA, Bunger WA, Sakano TK. 1986. Organic solvents: Physical properties and methods of purification. Techniques of chemistry. Volume 11. 4th ed. New York, NY: John Wiley and Sons, 66, 334.

Rietz B. 1985. Determination of three aldehydes in the air of working environments. Anal Lett 18:2369-2379.

Rosenbaum AS, Axelrad DA, Woodruff TJ, et al. 1999. National estimates of outdoor air toxics concentrations. J Air Waste Manage Assoc 49:1138-1152.

RTECS. 2007. Acrolein. Registry of Toxic Effects of Chemical Substances. National Institue of Occupationals Safety and Health. MDL Information Systems. Inc October 4, 2007.

Rylander R. 1974. Review of studies on environmental tobacco smoke. Stand J Respir Dis 91:10-20.

Sabel GV, Clark TP. 1984. Volatile organic compounds as indicators of municipal solid waste leachate contamination. Waste Manag Res 2:119-130.

Sakata T, Smith RA, Garland EM, et al. 1989. Rat urinary bladder epithelial lesions induced by acrolein. J Environ Pathol Toxicol Oncol 9:159-170.

Sakura N, Nishimura S-i, Fujita N, et al. 1998. Determination of acrolein in human urine by headspace gas chromatography and mass spectrometry. J Chromatogr B Biomed Sci Appl 719(1-2):209-212.

Sakuragawa A, Yoneno T, Inoue K, et al. 1999. Trace analysis of carbonyl compounds by liquid chromatography-mass spectrometry after collection as 2,4-dinitrophenylhydrazine derivatives. J Chromatogr A 844:403-408.

*Salaman MH, Roe FJC. 1956. Further tests for tumour-initiating activity: N,N-di-(2-chloroethyl)-P-aminophenylbutyric acid (CB1348) as an initiator of skin tumour formation in the mouse. Br J Cancer 10:363-378.

Sanduja R, Ansari GAS, Boor PJ. 1989. 3-Hydroxypropylmercapturic acid: A biologic marker of exposure to allylic and related compounds. J Appl Toxicol 9(4):235-238.

*Schöning FW. 1966. [Acrolein dermatitis in the region of the external male genetalia.] Berufsdermatosen 14:94-99. (German)

Seidell A. 1941. Acrolein. In: Solubilities of organic compounds. A compilation of quantitative solubility data from the periodical literature. Volume 11. New York: D. Van Nostrand Company Inc., 241-243.

Seizinger DE, Dimitriades B. 1972. Oxygenates in exhaust from simple hydrocarbon fuels. J Air Pollut Control Assoc 22:47-51.

Setchell BP, Waites GMH. 1975. The blood-testis barrier. In: Creep RO, Astwood EB, Geiger SR, eds. Handbook of physiology: Endocrinology V. Washington, DC: American Physiological Society, 143-172.

Shamberger RJ, Andreone TL, Willis CE. 1974. Antioxidant and cancer. IV. Initiating activity of malonaldehyde as a carcinogen. J Natl Cancer Inst 53:1771-1773.

Sherwood RL, Leach CL, Hatoum NS, et al. 1986. Effects of acrolein on macrophage functions in rats. Toxicol Lett 32:41-49.

Sigsby JE Jr., Tejada S, Ray W, et al. 1987. Volatile organic compound emissions from 46 in-use passenger cars. Environ Sci Technol 21:466-475.

Sim VM, Pattle RE. 1957. Effect of possible smog irritants on human subjects. J Am Med Assoc 165:1908-1913.

Sinkuvene DS. 1970. Hygienic evaluation of acrolein as an air pollutant. Hyg Sanit 35:325-329.

Skog E. 1950. A toxicological investigation of lower aliphatic aldehydes Part I: Toxicity of formaldehyde, acetaldehyde, propionaldehyde and butyraldehyde as well as acrolein and crotonaldehyde. Acta Pharmacol Toxicol 6:299-318.

Slott VL, Hales BF. 1985b. Teratogenicity and embryolethality of acrolein and structurally related compounds in rats. Teratology 32:65-72.

Smith AM, Mao J, Doane RA, et al. 1995. Metabolic fate of $[{}^{14}C]$ acrolein under aerobic and anaerobic aquatic conditions. J Agric Food Chem 43(9):2497-2503.

Smith RA, Cohen SM, Lawson TA. 1990a. Acrolein mutagenicity in the V79 assay. Carcinogenesis 11:497-498.

*Smyth HF, Carpenter CP, Weil CS. 1951. Range-finding toxicity data: List IV. Am Med Assoc Arch Ind Hyg 4:119-122.

Sprince H, Parker CM, Smith GG. 1979. Comparison of protection by L-ascorbic acid, L-cysteine, and adrenergic-blocking agents against acetaldehyde, acrolein, and formaldehyde toxicity: Implications in smoking. Agents Actions 9:407-414.

Springall DR, Edginton JA, Price PN, et al. 1990. Acrolein depletes the neuropeptides CGRP and substance P in sensory nerves in rat respiratory tract. Environ Health Perspect 85:151-157.

SRI. 2004. 2004 Directory of chemical producers. United States of America. Menlo Park, CA: SRI Consulting, 430.

SRI. 2006. 2006 Directory of chemical producers. Menlo Park, CA: SRI Consulting. Access Intelligence, LLC, 442.

Staples CA, Werner A, Hoogheem T. 1985. Assessment of priority pollutant concentrations in the United States using STORET database. Environ Toxicol Chem 4:131-142.

*Steiner PE, Steele R, Koch FC. 1943. The possible carcinogenicity of overcooked meats, heated cholesterol, acrolein, and heated sesame oil. Cancer Res 3:100-107.

Steinhagen WH, Barrow CS. 1984. Sensory irritation structure-activity study of inhaled aldehydes in B6C3Fl and Swiss-Webster mice. Toxicol Appl Pharmacol 72:495-503.

Swann RL, Laskowski DA, McCall PJ, et al. 1983. A rapid method for the estimation of the environmental parameters octanol/water partition coefficient, soil sorption constant, water to air ratio and water solubility. Res Rev 85:17-28.

*Symanowicz PT, Gianutsos G, Morris JB. 2004. Lack of role for the vanilloid receptor in response to several inspired irritant air pollutants in the C57B1/6J mouse. Neurosci Lett 362(2):150-153.

*Szot RJ, Murphy SD. 1971. Relations between cyclic variations in adrenocortical secretory activity in rats and the adrenocortical response to toxic chemical stress. Environ Res 4:530-538.

Tabak HH, Quave SA, Mashni CI, et al. 1981. Biodegradability studies with organic priority pollutant compounds. J Water Pollut Contr Fed 53:1503-1518.

Takamoto S, Sakura N, Namera A, et al. 2004. Monitoring of urinary acrolein concentration in patients receiving cyclophosphamide and isophamide. J Chromatogr B Anal Technol Biomed Life Sci 806(1):59-63.

Tanel A and Averill-Bates DA. 2005. The aldehyde acrolein induces apoptosis via activation of the mitochondrial pathway. Biochem Biophys Acta 1743:255-267.

Tanne C. 1983. Candle manufacture. In: Parmeggiani L, ed. Encyclopedia of occupational health and safety, 3rd (revised) ed. Geneva: International Labour Office, 1:383-384.

Tharr DG, Singal M. 1986. Health hazard evaluation: Report HETA 83-376-1556. Portsmouth Naval Shipyard, Portsmouth, NH. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, Centers for Disease Control, National Institute for Occupational Safety and Health. PB86133683.

Thomas K, Colborn T. 1992. Organochlorine endocrine disruptors in human tissue. In: Colborn T, Clement C, eds. Chemically induced alterations in sexual and functional development: The wildlife/human connection. Princeton, NJ: Princeton Scientific Publishing, 365-394.

Thomas RG. 1982. Volatilization from Water. In: Lyman WJ, Reehl WF, Rosenblatt DH, eds. Handbook of chemical property estimation methods. New York, NY: McGraw Hill Book Co., Chapter 15.

Tomlin CD. 2003. The e-pesticide manual. 13th ed., Version 3.0. British Crop Protection Council.

Treitman RD, Burgess WA, Gold A. 1980. Air contaminants encountered by firefighters. Am Ind Hyg Assoc J 41:796-802.

TRI04. 2006. TRI explorer: Providing access to EPA's toxics release inventory data. Washington, DC: Office of Information Analysis and Access, Offices of Environmental Information, U.S. Environmental Protection Agency. Toxics Release Inventory. http://www.epa.gov/triexplorer/. August 29, 2006.

Triebig G, Zober MA. 1984. Indoor air pollution by smoke constituents: A survey. Prev Med 13:570-581.

Trieff NM, Ficklen D, Gan J. 1993. *In vitro* inactivation of glucose-6-phosphate dehydrogenase from human red blood cells by acrolein: A possible biomarker of exposure. Toxicol Lett 69:121-127.

Uchida K, Kanematsu M, Morimitsu Y, et al. 1998a. Acrolein is a product of lipid peroxidation reaction. Formation of free acrolein and its conjugate with lysine residues in oxidized low density lipoproteins. J Biol Chem 273(26):16058-16066.

Uchida K, Kanematsu M, Sakai K, et al. 1998b. Protein-bound acrolein: Potential markers for oxidative stress. Proc Natl Acad Sci U S A 95:4882-4887.

Umano K, Shibamoto T. 1987. Analysis of acrolein from heated cooking oils and beef fat. J Agric Food Chem 35:909-912.

Vainiotalo S, Matveinen K. 1993. Cooking fumes as a hygienic problem in the food and catering industries. Am Ind Hyg Assoc J 54(7):376-382.

VanderVeen LA, Hashim MF, Nechev LV, et al. 2001. Evaluation of the mutagenic potential of the principal DNA adduct of acrolein. Proc Am Assoc Cancer Res 42:470.

Valacchi G, Pagnin E, Phung A, et al. 2005. Inhibition of NF κ B activation and IL-8 expression in human bronchial epithelial cells by acrolein. Antioxid Redox Signal 7(1-2):25-31.

Van Duuren BL, Langseth L, Goldschmidt BM, et al. 1967b. Carcinogenicity of epoxides, lactones, and peroxy compounds: VI. Structure and carcinogenicity activity. J Natl Cancer Inst 39:1217-1228.

Van Duuren BL, Langseth L, Orris L, et al. 1967a. Carcinogenicity of epoxides, lactones, and peroxy compounds: V. Subcutaneous injection in rats. J Natl Cancer Inst 39:1213-1216.

Veith GD, Macek KJ, Petrocelli SR, et al. 1980. An evaluation of using partition coefficients and water solubility to estimate bioconcentration factors for organic chemicals in fish. In: Easton JG, et al., eds. American Society of Testing Materials. ASTM STP 707, 116-129.

Verschueren K. 2001. Acrolein. In: Handbook of environmental data on organic chemicals. Volume 1. New York, NY: John Wiley & Sons, Inc., 122-124.

Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of CYP2E1 in the human liver: Hypermethylation control of gene expression during the neonatal period. Eur J Biochem 238(2):476-483.

Von der Hude W, Behm C, Guertler R, et al. 1988. Evaluation of the SOS chromotest. Mutat Res 203:81-94.

Waegemaekers TH, Bensink MP. 1984. Non-mutagenicity of 27 aliphatic acrylate esters in the Salmonella-microsome test. Mutat Res 137:95-102.

*Warholm M, Holmberg B, Hoegberg J, et al. 1984. The acute effects of single and repeated injections of acrolein and other aldehydes. Int J Tissue React 6:61-70.

*Watanabe T, Aviado DM. 1974. Functional and biochemical effects on the lung following inhalation of cigarette smoke and constituents: II. Skatole, acrolein, and acetaldehyde. Toxicol Appl Pharmacol 30:201-209.

Weber A, Fischer T, Grandjean E. 1979. Passive smoking in experimental and field conditions. Environ Res 20:205-216.

Weber-Tschopp A, Fischer T, Gierer R, et al. 1977. [Experimental irritating effects of acrolein on man.] Int Arch Occup Environ Health 40:117-130. (German)

Weber-Tschopp A, Jermini C, Grandjean E. 1976b. [Physiological and psychological effects of passive smoking.] Int Arch Occup Environ Health 37:277-288. (German)

West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. J Pediatr 32:10-18.

Wharton FD Jr. 1978. Environmental aspects of nitrile barrier polymers. Polym Plast Technol Eng 10:1-21.

*Whitehouse MW, Beck FWJ. 1975. Irritancy of cyclophosphamide-derived aldehydes (acrolein, chloracetaldehyde) and their effect on lymphocyte distribution *in vivo*: Protective effect of thiols and bilsulphite ions. Agents Actions 5:541-548.

WHO. 1991. Acrolein. Geneva, Switzerland: World Health Organization.

WHO. 1999. International consultation on environmental tobacco smoke (ETS) and child health. Geneva, Switzerland: World Health Organization.

WHO. 2002. Guidelines for drinking water. DDT. Geneva, Switzerland: World Health Organization. http://www.who.int/water_sanitation_health/GDWQ/Chemicals/ddsum.htm. January 02, 2002.

Widdowson EM, Dickerson JWT. 1964. Chemical composition of the body. In: Comar CL, Bronner F, eds. Mineral metabolism: An advanced treatise. Vol. II: The elements Part A. New York: Academic Press.

Williams ID, Revitt DM, Hamilton RS. 1996. A comparison on carbonyl compound concentrations at urban roadside and indoor sites. Sci Total Environ 189/190:475-483.

Windholz M, Budavari S, Blumetti RF, et al., eds. 1983. The Merck index. 10th ed. Rahway, NJ: Merck and Co., Inc., 19.

Woskie SR, Smith TJ, Hamond SK, et al. 1988. Estimation of the diesel exhaust exposures of railroad workers: I. Current exposures. Am J Ind Med 13:381-394.

WSSA. 1983. Weed Science Society of America. Herbicide handbook of the Weed Science Society of America. 5th ed. Champaign, IL: Weed Science Society of America, 8-12.

Yang X, Wu X, Choi YE, et al. 2004. Effect of acrolein and glutathione depleting agents in thioredoxin. Toxicology 204:209-218.

Yang IY, Chan G, Miller H, et al. 2002a. Mutagenesis by acrolein-derived propanodeoxyguanosine adducts in human cells. Biochemistry 41(46):13826-13832.

Yang IY, Johnson F, Grollman AP, et al. 2002b. Genotoxic mechanism for the major acrolein-derived deoxyguanosine adduct in human cells. Chem Res Toxicol 15(2):160-164.

Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. Pediatr Res 12:29-34.

Zimmering S, Mason JM, Valencia R, et al. 1985. Chemical mutagenesis testing in *Drosophila*. II. Results of 20 coded compounds tested for the National Toxicology Program. Environ Mutagen 7:87-100.

Zitting A, Heinonen T. 1980. Decrease of reduced glutathione in isolated rat hepatocytes caused by acrolein, acrylonitrile and the thermal degradation products of styrene copolymers. Toxicology 17:333-342.

Zweidinger RB, Sigsby JE Jr., Tejada SB, et al. 1988. Detailed hydrocarbon and aldehyde mobile source emissions from roadway studies. Environ Sci Technol 22:956-962.