### 8. REFERENCES

- \*Aaron CK, Howland MA, eds. 1994. Goldfrank's Toxicologic Emergencies. Norwalk, CT: Appleton and Lange.
- \*Abdel-Rahman MA. 1982. The presence of trihalomethanes in soft drinks. J Appl Toxicol 2:165-166.

Abrams K, Harvell JD, Shriner D, et al. 1993. Effect of organic solvents on in vitro human skin water barrier function. J Invest Dermatol 101(4):609-613.

Abuelo JG. 1990. Renal failure caused by chemicals, foods, plants, animal venoms, and misuse of drugs. Arch Intern Med 150:505-510.

- \*ACGIH. 1992. Threshold limit values for chemical substances and physical agents and biological exposure indices (1992- 1993). American Conference of Governmental Industrial Hygienists. Cincinnati, OH.
- \*ACGIH. 1994. Threshold limit values for chemical substances and physical agents and biological exposure indices for 1994-1995. American Conference of Governmental Industrial Hygienists. Cincinnati, OH.
- \*Ade P, Guastadisegni C, Testai E, et al. 1994. Multiple activation of chloroform in kidney microsome from male and female DBA/2J mice. J Biochem Toxicol 9(6):289-295.
- \*Aggazzotti G, Fantuzzi G, Righi E, et al. 1993. Chloroform in alveolar air of individuals attending indoor swimming pools. Arch Environ Health 48(4):250-254.
- \*Aggazzotti G, Fantuzzi G, Tartoni PL, et al. 1990. Plasma chloroform concentrations in swimmers using indoor swimming pools. Arch Environ Health 45(3): 175-179.

Agrawal HC, Agrawal D. 1989. Tumor promoters accentuate phosphorylation of PO: Evidence for the presence of protein kinase C in purified PNS myelin. Neurochem Res 14:409-413.

\*Ahlstrom RC, Steele JM. 1979. Chlorocarbons, hydrocarbons (CH3Cl). In: Grayson M, Eckroth D, eds. Kirk-Othmer encyclopedia of chemical technology, 3rd ed. Volume 5. New York, NY: John Wiley and Sons, 677-685.

Ahmadizadeh M, Kuo C, Echt R, et al. 1984. Effect of polybrominated biphenyls, b-naphthoflavone and phenobarbital on arythydrocarbon hydroxylase activities and chloroform-induced nephrotoxicity and hepatotoxicity in male C57BL/6J and DBA/2J mice. Toxicology 31:343-352.

\*Ahmed AE, Kubic VL, Anders MW. 1977. Metabolism of haloforms to carbon monoxide. I. *In* vitro studies. Drug Metab Dispos 5:198-204.

<sup>\*</sup>Cited in text

- \*Aiking H, Van Acker MB, Scholten RJPM, et al. 1994. Swimming pool chlorination: A health hazard? Toxicol Lett 72 (1-3):375-380.
- \*Alavanja M, Goldstein I, Susser M. 1978. A case control study of gastrointestinal and urinary tract cancer mortality and drinking water chlorination. In: Jolley RJ, Gorchen H, Hamilton DH Jr., eds. Water Chlorination, Environmental Impact and Health Effects. Ann Arbor, MI: Ann Arbor Science Publications, 1:395-409.
- \*Alles G, Bauer U, Selenka F. 1988. Volatile organochlorine compounds in human tissue. Zentralbl Bakteriol Mikrobiol Hyg [B] 186:233-246.
- \*Alles G, Bauer U, Selenka F, et al. 1988. Volatile organochlorine compounds in human tissue. Zbl Bakt Hyg 233-246.
- \*Amaral OC, Olivella L, Grimalt JO. 1994. Combined solvent extraction-purge and trap method for the determination of volatile organic compounds in sediments. J Chromatogr A 675(1):177-187.
- \*Amoore JE, Hautala AE. 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.
- \*Andelman JB. 1985a. Human exposures to volatile halogenated organic chemicals in indoor and outdoor air. Environ Health Perspect 62:313-318.
- \*Andelman JB. 1985b. Inhalation exposure in the home to volatile organic contaminants of drinking water. Sci Total Environ 47:443-460.
- \*Andelman JB. 1990. Total exposure to volatile organic compounds in potable water. In: Significance and Treatment of Volatile Organic Compounds in Water Supplies. Chelsea, MI: Lewis Publishers, Inc.
- \*Anders MW, Stevens JL, Sprague RW, et al. 1978. Metabolism of haloforms to carbon monoxide. II. *In vivo* studies. Drug Metab Dispos 6:556-560.
- \*Andersen ME, Clewell HJ, III, Gargas ML, et al. 1987. Physiologically based pharmacokinetics and the risk assessment process for methylene chloride. Toxicol Appl Pharmacol 87:185-205.
- \*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. Current concepts and approaches on animal test alternatives. U.S. Army Chemical Research Development and Engineering Center, Aberdeen Proving Ground, Maryland.
- \*Anderson TA, Beauchamp JJ, Walton BT. 1991. Fate of volatile and semivolatile organic chemicals in soils: Abiotic versus biotic losses. J Environ Qual 20(2):420-424.
- Aniya Y, Ojiri Y, Sunagawa R, et al. 1989. Glutathione s-transferases and chloroform toxicity in streptozotocin-induced diabetic rats. Jpn J Pharmacol 50:263-269.

- \*Antoine SR, DeLeon IR, O'Dell-Smith RM. 1986. Environmentally significant volatile organic pollutants in human blood. Bull Environ Contam Toxicol 36:364-371.
- \*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.
- \*Armstrong DW, Golden T. 1986. Determination of distribution and concentration of trihalomethanes in aquatic recreational and therapeutic facilities by electron capture GC. LC-GC 4:652-655.
- \*Ashley DL, Bonin MA, Cardinali FL, et al. 1992. Determining volatile organic compounds in human blood from a large sample population by using purge and trap gas chromatography/mass spectrometry. Anal Chem 64(9):1021-1029.
- \*ASTER. 1996. ASTER (Assessment Tools for the Evaluation of Risk) ecotoxicity profile. Duluth, MN: Environmental Research Laboratory, U.S. Environmental Protection Agency.
- \*Atkinson R. 1985. Kinetics and mechanisms of the gas-phase reactions of the hydroxyl radical with organic compounds under atmospheric conditions. Chem Rev 85:89-91, 113.
- \*ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicological profiles. Agency for Toxic Substances and Disease Registry, Division of Toxicology, Atlanta, GA.
- \*ATSDR. 1994. Toxicological profile for carbon tetrachloride TP-93/02. Agency for Toxic Substances and Disease Registry, Division of Toxicology, Atlanta, GA.
- \*ATSDR/CDC. 1990. Subcommittee report on biological indicators of organ damage. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta, GA.
- Aviado DM. 1972. Chloroform. In: Krantz and Carr's pharmacologic principles of medical practice, eighth edition. Baltimore, MD: Waverly Press, Inc., 250-261.
- \*Azri-Meehan S, Mata HP, Gandolfi AJ, et al. 1992. The hepatotoxicity of chloroform in precision-cut rat liver slices. Toxicology 73(3):239-250.
- \*Azri-Meehan S, Mata HP, Gandolfi AJ, et al. 1994. The interactive toxicity of CHC13 and BrCC13 in precision-cut rat liver slices. Fundam Appl Toxicol 22(2): 172- 177.
- \*Bachmann K, Polzer J. 1989. Determination of tropospheric phosgene and other halocarbons by capillary gas chromatography. J Chromatogr 481:373-379.
- \*Baeder C, Hofmann T. 1988. Inhalation embryotoxicity study of chloroform in Wistar rats Frankfurt: Pharma Research Toxicology and Pathology, Hoechst Aktiengesellschaft.
- \*Bai C-L, Canfield PJ, Stacey NH. 1992. Individual serum bile acids as early indicators of carbon tetrachloride- and chloroform-induced liver injury. Toxicol 75(3):221-234.
- \*Bai CL, Stacey NH. 1993. Effects of carbon tetrachloride and chloroform on bile acid transport in isolated rat hepatocytes: relationship to elevated serum bile acids. Toxic In Vitro 7(3):197-203.

- \*Bailie MB, Smith JH, Newton JF, et al. 1984. Mechanism of chloroform nephrotoxicity. IV. Phenobarbital potentiation of in vitro chloroform metabolism and toxicity in rabbit kidneys. Toxicol Appl Pharmacol 74:285-292.
- \*Balster RL, Borzelleca JF. 1982. Behavioral toxicity of trihalomethane contaminants of drinking water in mice. Environ Health Perspect 46: 127-136.
- \*Banerjee S, Yalkowsky SH, Valvani SC. 1980. Water solubility and octanol/water partition coefficients of organics. Limitations of the solubility-partition coefficient correlation. Environ Sci Technol 14:1227-1229.
- \*Barkley J, Bunch J, Bursey JT, et al. 1980. Gas chromatography mass spectrometry computer analysis of volatile halogenated hydrocarbons in man and his environment. A multimedia environmental study. Biomed Mass Spectrom 7: 130-147.
- \*Barnes D, Fitzgerald PA, Swan HB. 1989. Catalysed formation of chlorinated organic materials in waters. Water Sci Technol 21(2):59-63.
- \*Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessment. Regul Toxicol Pharmacol 8:471-486.
- \*Barrows ME, Petrocelli SR, Macek KJ, et al. 1980. Bioconcentration and elimination of selected water pollutants by bluegill sunfish (Lepomis macrochirus). In: Haque R, ed. Dynamics, exposure and hazard assessment of toxic chemicals. Ann Arbor, MI: Ann Arbor Science 379-392.
- \*Bauer S, Solyom D. 1994. Determination of volatile organic compounds at the parts per trillion level in complex aqueous matrices using membrane introduction mass spectrometry. Anal Chem 66(24):4422-4431.
- \*Bayer CW, Black MS, Galloway LM. 1988. Sampling and analysis techniques for trace volatile organic emissions from consumer products. J Chromatogr Sci 26(4):168-173.
- \*Bean RM, Thomas BL, Neitzel DA. 1985. Analysis of sediment matter for halogenated products from chlorination of power plant cooling water. In: Proceedings of the 5th Water Chlorination Conference. Chelsea, MI: Lewis Publishers, Inc., 1357-1370.
- \*Begerow J, Jermann E, Keles T, et al. 1995. Passive sampling for volatile organic compounds VOCs in air at environmentally relevant concentration levels. Fresenius' Journal of Analytical Chemistry 35 1(6):549-554.
- Belfiore F, Zimmerman HJ. 1970. Cytotoxicity of chlorinated hydrocarbons *in vitro*: Observations on chloroform-induced hemolysis. Proc Sot Exp Biol Med 134:61-66.
- \*Bellar TA, Lichtenberg JJ, Kroner RC. 1974. The occurrence of organohalides in chlorinated drinking water. J Amer Water Works Assoc 66:703-706.
- \*Benoit FM, Jackson R. 1987. Trihalomethane formation in whirlpool spas. Water Res 2 (13):353-357.

### 8. REFERENCES

Berardesca E, Herbst R, Maibach H. 1993. Plastic occlusion stress test as a model to investigate the effects of skin delipidization on the stratum corneum water holding capacity *in vivo*. Dermatology 187:91-94.

\*Berger D, Vischer TL, Micheli A. 1983. Induction of proteolytic activity in serum by treatment with amniotic detergents and organic solvents. Experientia 39: 1109-1 111.

Berger ML, Sozeri T. 1987. Rapid halogenated hydrocarbon toxicity in isolated hepatocytes as mediated by direct solvent effects. Toxicology 45:319-330.

\*Bergman K. 1979. Whole-body autoradiography and allied tracer techniques in distribution and elimination studies of some organic solvents. Benzene, toluene, xylene, styrene, methylene chloride, chloroform, carbon tetrachloride and trichloroethylene. Stand J Work Environ Health S(Suppl 1):263.

Birnbaum LS. 1987. Age-related changes in carcinogen metabolism. J Am Geriatr Sot 3551-60.

Blackshaw JK, Fenwick DC, Beattie AW, et al. 1988. The behavior of chickens, mice and rats during euthanasia with chloroform, carbon dioxide and ether. Lab Anim 22:67-75.

\*Blancato JN, Chiu N. 1994. Use of pharmacokinetic models to estimate internal doses from exposure. In: Wang R, ed. Water contamination & health. New York, NY: Marcel Dekker, Inc., 217-239.

\*Blanchard RD, Hardy JK. 1986. Continuous monitoring device for the collection of 23 volatile organic priority pollutants. Anal Chem 58(7):1529-1532.

Bogen KT, Colston BW Jr., Machicao LK. 1992. Dermal absorption of dilute aqueous chloroform, trichloroethylene, and tetrachloroethylene in hairless guinea pigs. Fundam Appl Toxicol 18:30-39.

\*Bornski H, Sobolewska A, Strakowski A. 1967. [Toxic damage of the liver by chloroform in chemical industry workers.] Int Arch F Gewerbepathologie u. Gewerbehygiene 24: 127- 134 (German)

Borzelleca JF, O'Hara TM, Gennings C, et al. 1990. Interactions of water contaminants. I. Plasma enzyme activity and response surface methodology following gavage administration of CC14 and CHC13 or TCE singly and in combination in the rat. Fundam Appl Toxicol 14:477-490.

\*Boublik T, Fried V, Hala E. 1984. The vapor pressures of pure substances: Selected values of the temperature dependence of the vapor pressures of some pure substances in the normal and low-pressure region. Volume 17. Amsterdam, Netherlands: Elsevier Scientific Publications.

\*Bouwer EJ, McCarty PL. 1983. Transformations of I- and 2-carbon halogenated aliphatic organic compounds under methanogenic conditions. Appl Environ Microbial 45(4):1286-1294.

\*Bouwer EJ, McCarty PL, Lance JC. 1981b. Trace organic behavior in soil columns during rapid infiltration of secondary wastewater. Water Res 15: 151-159.

\*Bouwer EJ, Rittman B, McCarty PL. 1981a. Anaerobic degradation of halogenated l- and 2-carbon organic compounds. Environ Sci Technol 15:596-599.

### 8. REFERENCES

- \*Bove FJ, Fulcomer MC, Klotz JB, et al. 1995. Public drinking water contamination and birth outcomes. American Journal of Epidemiology 141(9):850-862.
- \*Bowman FJ, Borzelleca JF, Munson AE. 1978. The toxicity of some halomethanes in mice. Toxicol Appl Pharmacol 44:213-215.

Boyland E. 1987. Estimation of acceptable levels of tumour promoters. Br J Ind Med 44:422-423.

Brady JF, Li D, Ishizaki H, et al. 1989. Induction of cytochromes P450IIE1 and P450IIB1 1 by secondary ketones and the role of P450IIE1 in chloroform metabolism. Toxicol Appl Pharmacol 100:342-349.

\*Branchflower RV, Nunn DS, Highet RJ, et al. 1984. Nephrotoxicity of chloroform: Metabolism to phosgene by the mouse kidney. Toxicol Appl Pharmacol 72: 159-168.

Branchflower RV, Pohl LR. 1981. Investigation of the mechanism of the potentiation of chloroform-induced hepatotoxicity and nephrotoxicity by methyl n-butyl ketone. Toxicol Appl Pharmacol 61:407-4 13.

\*Brass JH, Feige MA, Halloran T, et al. 1977. The National Organic Monitoring Survey: Sampling and analyses for purgeable organic compounds. In: Drinking water quality enhancement source protection, 393-4 16.

Brittebo EB, Kowalski B, Brandt I. 1987. Binding of the aliphatic halides 1,2-dibromoethane and chloroform in the rodent vaginal epithelium. Pharmacol Toxicol 60:294-298.

- \*Brodzinsky R, Singh HB. 1982. Volatile organic chemicals in the atmosphere: An assessment of available data. Menlo Park, CA: Atmospheric Science Center, SRI International. Contract 68-02-3452.
- \*Brown BR Jr., Sipes IG, Sagalyn AM. 1974b. Mechanisms of acute hepatic toxicity: Chloroform, halothane, and glutathione. Anesthesiology 41:554-561.
- \*Brown DM, Langley PF, Smith D, et al. 1974a. Metabolism of chloroform. I. The metabolism of 14C-chloroform by different species. Xenobiotica 4: 151- 163.

Brunius G. 1987. Mitogenic activity of chloroform and carbon tetrachloride in serum-deficient or calcium-deficient cultures of human embryonic lung fibroblasts. Carcinogenesis 11: 1645- 1649.

- \*Bull RJ, Brown JM, Meierhenry EA. 1986. Enhancement of the hepatotoxicity of chloroform in B6C3Fl mice by corn oil: Implications for chloroform carcinogenesis. Environ Health Perspect 69:49-58.
- \*Bureau International Technique des Solvants Chlores. 1976. Standardizations of methods for the determination of traces of some volatile chlorinated aliphatic hydrocarbons in air and water by gas chromatography. Anal Chim Acta 82: 1-17.
- "Burkhalter JE, Balster RL. 1979. Behavioral teratology evaluation of trichloromethane in mice. Neurobehav Toxicol 1: 199-205.

- \*Butler TC. 1961. Reduction of carbon tetrachloride *in vivo* and reduction of carbon tetrachloride and chloroform in vitro by tissues and tissue constituents. J Pharmacol Exp Ther 134:311-319.
- \*C&EN. 1994. Production by the U.S. Chemical Industry. Chem Engin News 72 (27):30-36.
- \*C&EN. 1995. Fact & figures for the chemical industry. Chem Engin News 73 (26):36-44.
- \*Caldwell KK, Harris RA. 1985. Effects of anesthetic and anticonvulsant drugs on calcium-dependent efflux of potassium from human erythrocytes. Eur J Pharmacol 107: 119-125.
- \*Callen DF, Wolf CR, Philpot RM. 1980. Cytochrome p-450 mediated genetic activity and cytotoxicity of seven halogenated aliphatic hydrocarbons in *Saccharomyces cerevisiae*. Mutat Res 77:55-63.
- \*Cammann K, Hubner K. 1995. Trihalomethane concentrations in swimmers' and bath attendants' blood and urine after swimming or working in indoor swimming pools. Archives of Environmental Health 50(1):61-65.
- \*Cantor KP, Hoover R, Mason TJ, et al. 1978. Associations of cancer mortality with halomethanes in drinking water. J Nat1 Cancer Inst 61:979-985.
- \*Cape1 ID, Dorrell HM, Jenner M, et al. 1979. The effect of chloroform ingestion on the growth of some murine tumours. Eur J Cancer 15:1485-1490.
- \*Cardinali FL, McGraw JM, AsheIy DL, et al. 1994. Production of blank water for the analysis of volatile organic compounds in human blood at the low part-per-trillion level. J Chromatogr Sci 32 (1):41-45.
- \*Carla V, Moroni F. 1992. General anaesthetics inhibit the responses induced by glutamate receptor agonists in the mouse cortex. Neurosci Lett 146 (1):21-24.
- \*Cech I, Smith V, Henry J. 1982. Spatial and seasonal variations in concentration of trihalomethanes in drinking water. In: Albaiges J, ed. Analytical techniques in environmental chemistry, II. New York, NY: Pergamon Press, 19-38.
- \*CELDs. 1994. Computer-aided Environmental Legislative Data Systems. United States Army Corps of Engineers Environmental Technical Information Systems, University of Illinois, Urbana, IL.
- \*Chai M, Arthur CL, Pawliszyn J, et al. 1993. Determination of volatile chlorinated hydrocarbons in air and water with solid-phase microextraction. Analyst (Cambridge, U. K.) 118 (12):1501-1505.
- \*Chai M, Pawliszyn J. 1995. Analysis of environmental air samples by solid-phase microextraction and gas chromatography/ion trap mass spectrometry. Environ Sci Technol 29:693-701.
- \*Challen PJR, Hickish DE, Bedford J. 1958. Chronic chloroform intoxication. Br J Ind Med 15:243-249.
- Cheeseman KH, Albano EF, Tomasi A, et al. 1985. Biochemical studies on the metabolic activation of halogenated alkanes. Environ Health Perspect 64:85-101.

- \*Chenoweth MB, Robertson DN, Erley DS, et al. 1962. Blood and tissue levels of ether, chloroform, halothane and methoxyflurane in dogs. Anesthesiology 23:101-106.
- \*Chinery RL, Gleason AK. 1993. A compartmental model for the prediction of breath concentration and absorbed dose of chloroform after exposure while showering. Risk Anal 13 (1):5 1-62.
- \*Chiou WL. 1975. Quantitation of hepatic and pulmonary first-pass effect and its implications in pharmacokinetic study. I. Pharmacokinetics of chloroform in man. J Pharmacokinet Biopharm 3:193-201.
- \*Chu I, Secours V, Marino I, et al. 1980. The acute toxicity of four trihalomethanes in male and female rats. Toxicol Appl Pharmacol 52:351-353.
- \*Chu I, Villeneuve DC, Secours VE, et al. 1982a. Trihalomethanes: II. Reversibility of toxicological changes produced by chloroform, bromodichloromethane, chlorodibromomethane and bromoform in rats. J Environ Sci Health B 17:225-240.
- \*Chu I, Villeneuve DC, Secours VE, et al. 1982b. Toxicity of trihalomethanes: I. The acute and subacute toxicity of chloroform, bromodichloromethane, chlorodibromomethane and bromoform in rats. J Environ Sci Health B 17:205-224.
- \*Cianflone DJ, Hewitt WR, Villeneuve DC, et al. 1980. Role of biotransformation in the alterations of chloroform hepatotoxicity produced by kepone and mirex. Toxicol Appl Pharmacol 53:140-149.
- \*Clark CS, Meyer CR, Gartside PS, et al. 1982. An environmental health survey of drinking water contamination by leachate from a pesticide waste dump in Hardemena County, Tennessee. Arch Environ Health 37:9-18.
- \*Class T, Ballschmidter K. 1986. Chemistry of organic traces in air. VI. Distribution of chlorinated Cl-C4-hydrocarbons in air over the northern and southern Atlantic Ocean. Chemosphere 15(4):413-427.
- Clemens TL, Hill RN, Bullock LP, et al. 1979. Chloroform toxicity in the mouse: Role of genetic factors and steroids. Toxicol Appl Pharmacol 48: 117-130.
- \*Clewell HJ III, Andersen ME. 1985. Risk assessment extrapolations using physiologically-based pharmacokinetic modeling. Toxicol Ind Health 1: 111-13 1.
- \*CLPSD. 1989. Contract Laboratory Program Statistical Database. Viar and Company, Alexandria, VA. July 12, 1989.
- \*CMR (Chemical Marketing Reporter). 1989. Chemical profile: Chloroform. New York, NY: Schnell Publishing, February 27, 1989.
- \*CMR (Chemical Marketing Reporter). 1995. Chemical profile: Chloroform. New York, NY: Schnell Publishing, February 13, 1995.
- \*Cohen EN, Hood N. 1969. Application of low-temperature autoradiography to studies of the uptake and metabolism of volatile anesthetics in the mouse. Anesthesiology 30:306-314.

- Cohen PJ, Chance B. 1986. Is chemiluminescence an index of hepatic lipoperoxidation accompanying chloroform anesthesia? Biochim Biophys Acta 884:517-519.
- \*Coleman WE, Lingg RD, Melton RG, et al. 1976. The occurrence of volatile organics in five drinking water supplies using gas chromatography/mass spectrometry. In: Keith L, ed. Analysis and identification of organic substances in water. Ann Arbor, MI: Ann Arbor Science, 305-327.
- \*Comba ME, Palabrica VS, Kaiser KLE. 1994. Volatile halocarbons as tracers of pulp mill effluent plumes. Environmental Toxicology and Chemistry 13(7):1065-1074.
- \*Comporti, M. 1985. Lipid peroxidation and cellular damage in toxic liver injury. Lab Invest 53:599-623.
- \*Copaken J. 1990. Trihalomethanes: Is swimming pool water hazardous. In: Water chlorination: Chemistry, Environmental Impact and Health Effects, volume 6. Chelsea, MI: Lewis Publishers, Inc.
- \*Corley RA, Mendrala AL, Smith FA, et al. 1990. Development of a physiologically based pharmacokinetic model for chloroform. Toxicol Appl Pharmacol 103:5 12-527.
- \*Corsi RL, Chang DPY, Schroeder ED, et al. 1987. Emissions of volatile and potentially toxic organic compounds from municipal wastewater treatment plants. Proceedings of the APAC Annual Meeting, 6:1-14.
- Cowlen MS, Hewitt WR, Schroeder F. 1984. 2-Hexanone potentiation of [14C]chloroform hepatotoxicity: Covalent interaction of a reactive intermediate with rat liver phospholipid. Toxicol Appl Pharmacol 73:478-491.
- \*Cox RD. 1983. Analytical collection and analytical techniques for volatile organics in air. Specialty conference on: Measurement and monitoring of non-criteria contaminants in air, 101-1 12.
- \*Crebelli R, Benigni R, Franckic J, et al. 1988. Induction of chromosome malsegregation by halogenated organic solvents in *Aspergillus nidulans:* Unspecified or specified mechanism? Mutat Res 201:401-411.
- \*Crume RV, Ryan WM, Peters TA, et al. 1990. Risk analysis on air from groundwater aeration. J Water Poll Control Fed 62:119-123.
- \*Culliford D, Hewitt HB. 1957. The influence of sex hormone status on the susceptibility of mice to chloroform-induced necrosis of the renal tubules. J Endocrinol 14:381-393.
- \*Daft JA. 1988a. Rapid determination of fumigant and industrial chemical residues in food. J Assoc Off Anal Chem 71:748-760.
- \*Daft JA. 1988b. Fumigant contamination during large-scale food sampling for analysis. Arch Environ Contam Toxicol 17: 177- 18 1.
- \*Daft JA. 1989. Determination of fumigants and related chemicals in fatty and non-fatty foods. J Agric Food Chem 37:560-564.

- \*Daniel FB, DeAngelo AB, Stober JA, et al. 1989. Chloroform inhibition of 1,2-dimethylhydrazineinduced gastrointestinal tract tumors in the Fisher 344 rat. Fundam Appl Toxicol 13:40-45.
- \*Danielsson BRG, Ghantous H, Dencker L. 1986. Distribution of chloroform and methyl chloroform and their metabolites in pregnant mice. Biol Res Pregnancy 7:77-83.
- Danni O, Brossa O, Burdino E, et al. 1981. Toxicity of halogenated hydrocarbons in pretreated rats An experimental model for the study of integrated permissible limits of environmental poisons. Int Arch Occup Environ Health 49: 165-176.
- \*Davis ME. 1992. Dichloroacetic acid and trichloroacetic acid increase chloroform toxicity. J Toxicol Environ Health 37 (1): 139-148.
- \*Davis ME, Bemdt WO. 1992. Sex differences in monochloroacetate pretreatment effects on chloroform toxicity in rats. Fundam Appl Toxicol 18 (1):66-71.
- \*De Groot H, Noll T. 1989. Halomethane hepatotoxicity: Induction of lipid peroxidation and inactivation of cytochrome P-450 in rat liver microsomes under low oxygen partial pressures. Toxicol Appl Pharmacol 97530-537.
- \*De Salva S, Volpe A, Leigh G, et al. 1975. Long-term safety studies of a chloroform-containing dentifrice and mouth-rinse in man. Food Cosmet Toxicol 13:529-532.
- \*De Serres FJ, Hoffmann GR, von Borstel J, et al. 1981. Summary report on the performance of yeast assays. In: Progress in mutation research, vol. I. Elsevier/North Holland, 67-76.
- \*Deamer DW. 1990. Anesthetic effects on membrane proton permeability. USDA/CRIS database. July 1990.
- Decker D, DiMardi SR, Calabrese EJ. 1984. Does chloroform exposure while showering pose a serious public health concern? Med Hypotheses 15: 119-124.
- \*Deml E, Oesterle D. 1985. Dose-dependent promoting activity of chloroform in rat liver foci bioassay. Cancer Lett 29:59-63.
- "Deringer MK, Dunn TB, Heston WE. 1953. Results of exposure of strain C3H mice to chloroform. Proc Sot Exp Biol Med 83:474-479.
- \*Deshon HD. 1979. Carbon tetrachloride. In: Grayson M, Eckroth D, eds. Kirk-Othmer Encyclopedia of Chemical Technology, 3rd ed, vol 5. New York, NY: John Wiley and Sons, 693-703.
- \*Dewalle FB, Chian ESK. 1981. Detection of trace organics in well water near a solid waste landfill. J Am Water Works Assoc 73:206-211.
- \*Dick D, Sauder DN, Chu I. 1995. *In vitro* and in *vivo* percutaneous absorption of 14C-chloroform in humans. Human Experimental Toxicology 14:260-265.

- \*Dilling W. 1977. Interphase transfer processes. II. Evaporation rates of chloromethanes, ethanes, ethylenes, propanes, and propylenes from dilute aqueous solution. Comparisons with theoretical predictions. Environ Sci Technol 11:405-409.
- \*Dilling WL, Tefertiller NB, Kallos GJ. 1975. Evaporation rates of methylene chloride, chloroform, 1, 1,l-trichloroethane, trichloroethylene, tetrachloroethylene, and other chlorinated compounds in dilute aqueous solutions. Environ Sci Technol 9 (9):833-838.
- \*Dimitriades B, Joshi SB. 1977. Application of reactivity criteria in oxidant-related emission control in the USA. In: Dimitriades B, ed. International Conference on Photochemical Oxidant Pollution and Its Control. Research Triangle Park, NC: U.S. Environmental Protection Agency. EPA-600/3-77-001B.
- \*Docks EL, Krishna G. 1976. The role of glutathione in chloroform-induced hepatotoxicity. Exp Mol *Pathol* 24: 13-22.
- \*Doring HJ. 1975. Reversible and irreversible forms of contractile failure caused by disturbances by general anesthetics in myocardial ATP utilization. In: Fleckenstein A, Dhalla NS, eds. Recent Advances in Studies on Cardiac Structure and Metabolism, vol. 5: Basic functions of cations in myocardial activity. Baltimore, MD: University Park Press, 395-403.
- \*Dreisback RH, ed. 1987. Handbook of poisoning-1987. Norwalk, CT: Appleton and Lange.
- \*Dreisch FA, Munson TO. 1983. Purge-and-trap analysis using fused silica capillary column GCMS. J Chromatogr Sci 21:111-1 18.
- \*Dunnick JK, Melnick RL. 1993. Assessment of the carcinogenic potential of chlorinated water: experimental studies of chlorine, chloramine, and trihalomethanes. J Nat1 Cancer Inst 85(10):817-822.
- Ebel RE. 1989. Pyrazole treatment of rats potentiates CC14- but not CHC13-hepatotoxicity. Biochem Biophys Res Commun 161:615-618.
- \*Ebel RE. 1990. Cytochrome p-450 and halomethane activation. USDA/CRIS database. July 1990. \*Ebel RE, Barlow RL, McGrath EA. 1987. Chloroform hepatotoxicity in the mongolian gerbil. Fundam Appl Toxicol 8:207-216.
- \*Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants of the Great Lakes ecosystem. Environ Sci Technol 15(1):30-38.
- Ekstrom T, Stahl A, Sigvardsson K, et al. 1986. Lipid peroxidation *in vivo* monitored as ethane exhalation and malondialdehyde excretion in urine after oral administration of chloroform. Acta Pharmacol Toxicol 58:289-296.
- \*Ekstrom T, Warholm M, Kronevi T, et al. 1988. Recovery of malondialdehyde in urine as a 2,4-dinitrophenylhydrazine derivative after exposure to chloroform or hydroquinone. Chem Biol Interact 67:25-3 1.

- \*El-shenawy NS, Abdel-Rahman MS. 1993a. The mechanism of chloroform toxicity in isolated rat hepatocytes. Toxicol Lett 69(1):77-85.
- \*El-shenawy NS, Abdel-Rahman MS. 1993b. Evaluation of chloroform cardiotoxicity utilizing a modified isolated rat cardiac myocytes. Toxicol Lett 69 (3):249-256.
- \*Ellenhorn MJ, Barceloux DG, eds. 1988. Medical toxicology: Diagnosis and treatment of human poisoning. New York, NY: Elsevier Publishing, 972-974.
- \*Enhorning G, Potoschnik R, Possmayer F, et al. 1986. Pulmonary surfactant films affected by solvent vapors. Anesth Analg 65:1275-1280.
- Enosawa S, Nakazawa Y. 1986. Changes in cytochrome P450 molecular species in rat liver in chloroform intoxication. Biochem Pharmacol 35:1555-1560.
- \*Entz RC, Thomas KW, Diachenko GW. 1982. Residues of volatile halocarbons in foods using headspace gas chromatography. J Agric Food Chem 30:846-849.
- \*EPA. 1973. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 136.3.
- \*EPA. 1975. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.2.
- \*EPA. 1978. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 116.4.
- \*EPA. 1979a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141 (App. C)
- \*EPA. 1979b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 401.15.
- EPA. 1980. Ambient water quality criteria for chloroform. Office of Water Regulations and Standards, Criteria and Standards Division, U.S. Environmental Protection Agency, Washington, DC.
- \*EPA. 1981a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 403 (App. B)
- \*EPA. 1981b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 413.02.
- \*EPA. 1981b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261 (App. VII).
- \*EPA. 1982a. Method Nos. 601 and 625. Test methods. Methods for organic chemical analysis of municipal and industrial wastewater. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, OH.
- \*EPA. 1982b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 423 (App. A)

- \*EPA. 1982c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 465.02.
- EPA. 1983a. Chloroform and maleic hydrazide; Determination concluding the rebuttable presumptions against registration and notice of availability of position documents. Federal Register 48:498-501.
- \*EPA. 1983b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.489.
- \*EPA. 1983c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 122.
- \*EPA. 1983d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 433.11.
- \*EPA. 1985a. U.S. Environmental Protection Agency: Health assessment document for chloroform. Washington, DC: Office of Health and Environmental Assessment. EPA/600/8-84-004F. NTIS PB86-105004/XAB.
- \*EPA. 1985b. U.S. Environmental Protection Agency: Survey of chloroform emission sources. Research Triangle Park, NC: Office of Air Quality. EPA/450/3-85-026.
- EPA. 1985c. U.S. Environmental Protection Agency: Intent to list chloroform as a hazardous air pollutant. Federal Register 50:39626-39629.
- \*EPA. 1985d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 61.01.
- \*EPA. 1985e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 464.
- EPA. 1985g. Health Assessment Document for Chloroform. Final Report. U.S. Environmental Protection Agency. EPA/600/8-84/004F. National Technical Information Service Publication No. PB86-105004.
- \*EPA. 1986a. Method 8010. Test methods for evaluating solid waste. Volume IB: Laboratory manual physical/chemical methods. SW 846, 3rd ed. U.S. Environmental Protection Agency, Office of Solid Waste, Washington, DC.
- EPA. 1986b. Evaluation of the potential carcinogenicity of chloroform. Report by Carcinogen Assessment Group, Office of Health and Environmental Assessment, Washington, DC, to Office of Emergency and Remedial Response, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency.
- EPA. 1986a. Chloroform. In: Quality criteria for water 1986. Office of Water Regulations and Standards, U.S. Environmental Protection Agency, Washington, DC.
- \*EPA. 1986d. Evaluation of the potential carcinogenicity of chloroform. Report by Carcinogen Assessment Group, Office of Health and Environmental Assessment, Washington, DC, to the Office of Emergency and Remedial Response, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency.

- \*EPA. 1986e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 117.3.
- \*EPA. 1986f. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.10.
- \*EPA. 1987a. U.S. Environmental Protection Agency: List (Phase 1) of hazardous constituents for ground-water monitoring; Final rule. 40 CFR Parts 264 and 270.
- \*EPA. 1987b. U.S. Environmental Protection Agency: Extremely hazardous substances list and threshold planning quantities; Emergency planning and release notification requirements. Federal Register 52:13378-13410.
- \*EPA. 1987c. Reportable quantity document for chloroform. Report by Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, U.S. Environmental Protection Agency, Cincinnati, OH, for the Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency.
- \*EPA. 1987d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.40.
- \*EPA. 1987e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 414.
- \*EPA. 1987f. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 264 (App. IX).
- \*EPA. 1987g. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268 (App. III).
- \*EPA. 1987h. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 355 (App. A.)
- \*EPA. 1988a. U.S. Environmental Protection Agency: Land disposal restrictions for third scheduled wastes; final rule. 40 CFR Parts 264-266, 268, and 271. Federal Register 53:31138-31145.
- \*EPA. 1988b. U.S. Environmental Protection Agency: National ambient volatile organic compounds (VOCS) Database update. EPA/600/3-88/010.
- \*EPA. 1988c. Contract Laboratory Program statement of work for organics analysis multi-media multi-component 2/88.
- EPA. 1988d. Analysis of clean water act effluent guidelines pollutants. Summary of the chemicals regulated by industrial point source category 40 CFR Parts 400-475. Draft. Prepared by Industrial Technology Division (WH 552) Office of Water Regulations and Standards. Office of Water. Washington, DC: U.S. Environmental Protection Agency.
- EPA. 1988e. Updated health effects assessment for chloroform. Report by Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, U.S. Environmental Protection Agency, Cincinnati, OH, for the Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency.

- \*EPA. 1988f. Method T02. Method for the determination of volatile organic compounds in ambient air by carbon molecular sieve adsorption and GC/MS. Compendium of methods for the determination of toxic organic compounds in ambient air. Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, RTP, NC. EPA/600/4-89/017.
- \*EPA. 1988g. Method T03. Method for the determination of volatile organic compounds in ambient air using cryogenic preconcentration techniques and GC with flame ionization and electron capture detection. Compendium of methods for the determination of toxic organic compounds in ambient air. Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, RTP, NC. EPA/600/4-89/017.
- \*EPA. 1988h. Method TOI. Method for the determination of volatile organic compounds in ambient air using Tenax adsorption and GC/MS. Compendium of methods for the determination of toxic organic compounds in ambient air. Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, RTP, NC. EPA/600/4-89/O 17.
- \*EPA. 1988i. Method T014. Determination of volatile organic compounds in ambient air using Summa passivated canister sampling and GC analysis. Compendium of methods for the determination of toxic organic compounds in ambient air. Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, RTP, NC. EPA/600/4-89/O 17.
- \*EPA. 1988j. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261 (App. VIII).
- \*EPA. 1988k. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.43.
- \*EPA. 19881. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 372.65.
- \*EPA. 1988m. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 716.120.
- \*EPA. 1988n. Method T06. Method for the determination of phosgene in ambient air using high performance liquid chromatography. In: Compendium of methods for the determination of toxic organic compounds in ambient air. U.S. Environmental Protection Agency, Quality Assurance Division, Environmental Monitoring Systems Laboratory, ORD, Research Triangle Park, NC. (authors: WT Winberry, NT Murphy, RM Riggan). EPA-600/4-84-041. [Also... EPA-600/4-87-006 AND EPA-600/4-89-0171
- \*EPA. 1989a. Interim methods for development of inhalation reference doses. U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. Washington, DC. EPA 600/8-88-066F.

- \*EPA. 1989b. U.S. Environmental Protection Agency: Land disposal restrictions for third scheduled wastes; proposed rule. 40 CFR Parts 148, 261, 264, 265,268, and 271. Federal Register 54:48377-48380, 48395-48396.
- \*EPA. 1989c. U.S. Environmental Protection Agency: Reportable quantity adjustments: Delisting of ammonium thiosulfate. Code of Federal Regulations 54 CFR 155.
- \*EPA. 1989d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 302.4.
- \*EPA. 1990a. Removal and fate of RCRA and CERCLA toxic organic pollutants in wastewater treatment. Cincinnati, OH: Risk Reduction Engineering Laboratory, U.S. Environmental Protection Agency. EPN600/S2-891026.
- \*EPA. 1990b. Interim methods for development of inhalation reference doses. U.S. Environmental Protection Agency. EPA-600/8-90/066A.
- \*EPA. 1990a. Methods for the determination of organic compounds, Supplement I, 169, 200.
- \*EPA. 1990d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.
- \*EPA. 1990e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.667.
- \*EPA. 1990f. U. S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.24
- \*EPA. 1990g. Method 55 1. Methods for the determination of organic compounds in drinking water, Supp. I. Environmental Monitoring Systems Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH. EPA-600/4-90/020.
- \*EPA. 1991a. Method 502.1. Methods for the determination of organic compounds in drinking water. U.S. Environmental Protection Agency, Cincinnati, OH. EPA-600/4-88/039.
- \*EPA. 1991b. Method 502.2. Methods for the determination of organic compounds in drinking water. U.S. Environmental Protection Agency, Cincinnati, OH. EPA-600/4-88/039.
- \*EPA. 1991c. Method 524.1. Methods for the determination of organic compounds in drinking water. U.S. Environmental Protection Agency, Cincinnati, OH. EPA-600/4-88/039.
- \*EPA. 1991d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 266.
- \*EPA. 1991e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.12.
- \*EPA. 1991f. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 258.
- \*EPA. 1991g. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 258 (APP. II).

- \*EPA. 1992. Method 524.2. Measurement of purgeable organic compounds in water by capillary column GC/MS. Methods for the determination of organic compounds in drinking water, Supp. II. Environmental Monitoring Systems Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH. EPA-600/R-92/129.
- \*EPA. 1993a. U.S. Environmental Protection Agency. Federal Register. 58 FR 62566. Code of Federal Regulations. 40 CFR 63.460.
- \*EPA. 1993b. U.S. Environmental Protection Agency. Federal Register. 58 FR 20802. Code of Federal Regulations. 40 CFR 132.6.
- \*EPA. 1993c. U.S. Environmental Protection Agency. Federal Register. 58 FR 65622. Code of Federal Regulations. 40 CFR 141.30.
- \*EPA. 1993d. U.S. Environmental Protection Agency. Federal Register. 58 FR 66078. Code of Federal Regulations. 40 CFR 430.
- \*EPA. 1993e. U.S. Environmental Protection Agency. Federal Register. 58 FR 48092. Code of Federal Regulations. 40 CFR 268.40, 40 CFR 268.48.
- \*EPA. 1993f. U.S. Environmental Protection Agency. Federal Register. 58 FR 54836. Code of Federal Regulations. 40 CFR 302.4.
- \*EPA. 1994a. U.S. Environmental Protection Agency. Federal Register. 59 FR 15504. Code of Federal Regulations. 40 CFR 63.48.
- \*EPA. 1994b. U.S. Environmental Protection Agency. Federal Register. 59 FR 38668. Code of Federal Regulations. 40 CFR 141.
- \*EPA. 1994c. U.S. Environmental Protection Agency. Federal Register. 59 FR 12567. Code of Federal Regulations. 40 CFR 430.02.
- \*EPA. 1994d. U.S. Environmental Protection Agency. Federal Register. 59 FR 9808. Code of Federal Regulations. 40 CFR 261 (App. VII).
- \*EPA. 1994e. Drinking water regulations and health advisories. U.S. Environmental Protection Agency, Office of Water. Washington, D.C. 1994.
- \*EPA/AMWA. 1989. US. Environmental Protection Agency/ Association of Metropolitan Water Agencies. Disinfection by-products in United States drinking waters. Vol. 1: Report. Metropolitan Water District of Southern California, Los Angeles, CA, November 1989. Table 5-2, Figures 5-4 and 5-22.
- \*Eschenbrenner AB, Miller E. 1945a. Induction of hepatomas in mice by repeated oral administration of chloroform, with observations on sex differences. J Nat1 Cancer Inst 5:251-255.
- \*Eschenbrenner AB, Miller E. 1945b. Sex differences in kidney morphology and chloroform necrosis. Science 102:302-303.

- \*Ewing, BB, Chian ESK, Cook JC, et al. 1977. Monitoring to detect previously unrecognized pollutants in surface waters. Appendix: Organic analysis data. U.S. Environmental Protection Agency, Washington, DC. EPA/560/6-77-015. [Appendix: EPA/560/6-77-015A].
- \*EXAMS. 1988. Exposure analysis modeling system: Reference manual for EXAMS II. U.S. Environmental Protection Agency, Environmental Research Laboratory, Athens, GA. EPA/600/3-85/038.
- \*Fagan DG, Forrest JB, Enhorning G, et al. 1977. Acute pulmonary toxicity of a commercial fluorocarbon-lipid aerosol. Histopathology 1:209-223.
- \*Farber JL. 1982. Calcium and the mechanism of liver necrosis. In: Popper H, Schaffner F, eds. Progress in liver diseases, vol 7. New York, NY: Grune & Stratton, 347-360.
- \*FDA. 1977. Indirect food additives: Adhesives and components of coatings. Code of Federal Regulations. 21 CFR 175.105.
- FDA. 1988. Indirect food additives: Adhesives and components of coatings. Code of Federal Regulations. 21 CFR 175.105-175.125.
- \*FDA. 1992. Action levels for poisonous or deleterious substances in human food and animal feed. Food and Drug Administration, Washington, D.C.
- \*Featherstone HW. 1947. Chloroform. Anesthesiology 8:362-371.
- \*FEDRIP. 1994. Federal Research in Progress. October 1994.
- \*FEDRIP. 1996. Federal Research in Progress. May 1996.
- \*Feingold A, Holaday DA. 1977. The pharmacokinetics of metabolism of inhalation anaesthetics: A simulation study. Br J Anaesth 49:155-162.
- \*Ferrario JB, Lawler GC, DeLeon IR, et al. 1985. Volatile organic pollutants in biota and sediments of Lake Pontchartrain. Bull Contam Toxicol 34(2):246-255.
- Fiorucci L, Monti A, Testai E, et al. 1988. *In vitro* effects of polyhalogenated hydrocarbons on liver mitochondria respiration and microsomal cytochrome p-450. Drug Chem Toxicol 11:387-403.
- Fonlupt P, Rey C, Pacheco H. 1987. Comparison of basal and noradrenaline stimulated methylation of chloroform-extractable products in synaptosomal preparations from the rat brain. Biochem Pharmacol 36:1527-1729.
- \*Fry BJ, Taylor R, Hathaway DE. 1972. Pulmonary elimination of chloroform and its metabolite in man. Arch Int Pharmacodyn 196:98-1 11.
- \*FSTRAC. 1988. Summary of state and federal drinking water standards and guidelines. U.S. Environmental Protection Agency, Chemical Communication Subcommittee, Federal-State Toxicology and Regulatory Alliance Committee (FSTRAC).

- \*FSTRAC. 1990. Summary of state and federal drinking water standards and guidelines. U.S. Environmental Protection Agency, Chemical Communication Subcommittee, Federal State Toxicology and Regulatory Alliance Committee (FSTRAC).
- \*Fujii T. 1977. Direct aqueous injection gas chromatography-mass spectrometry for analysis of organohalides in water at concentrations below the parts per billion level. J Chromatogr 139:297-302.
- \*Furlong EAN, D'Itri FM. 1986. Trihalomethane levels in chlorinated Michigan drinking water. Ecological Modelling 32:215-225.
- \*Gearhart JM, Seckel C, Vinegar A. 1993. *In vivo* metabolism of chloroform in B6C3Fl mice determined by the method of gas uptake: the effects of body temperature on tissue partition coefficients and metabolism. Toxicol Appl Pharmacol 119(2):258-66.
- \*Gehring PJ. 1968. Hepatotoxic potency of various chlorinated hydrocarbon vapours relative to their narcotic and lethal potencies in mice. Toxicol Appl Pharmacol 13:287-298. Gettler AO. 1934. Medicolegal aspects of deaths associated with chloroform or ether. Am J Surg 1:168-172.
- \*Gettler AO, Blume H. 1931. Chloroform in the brain, lungs, and liver. Quantitative recovery and determination. Arch *Pathol* 11554-560.
- \*Glende EA. 1994. Toxic liver injury--Ca2+, PLA2, proteases and eiconsanoids. Crisp Database, National Institutes of Health.
- \*Gobel R, Krska R, Neal S, et al. 1994. Performance studies of an ir fiber optic sensor for chlorinated hydrocarbons in water. Fresenius' Journal of Analytical Chemistry 350(7-9):514-519.
- \*Gocke E, King MT, Eckhardt K, et al. 198 1. Mutagenicity of cosmetics ingredients licensed by the European Communities. Mutat Res 90:91-109.
- \*Gomez MID, Castro JA. 1980. Nuclear activation of carbon tetrachloride and chloroform. Res Commun Chem *Pathol* Pharmacol 27: 191- 194.
- \*Goodman LS, Gilman A. 1980. The pharmacological basis of therapeutics. 6th ed. New York, NY: MacMillan Publishing.
- \*Gopinath C, Ford EJH. 1975. The role of microsomal hydroxylases in the modification of chloroform and carbon tetrachloride. Toxicol Appl Pharmacol 63:281-291.
- \*Gordon SM, Wallace LA, Pellizzari ED, et al. 1988. Human breath measurements in a clean-air chamber to determine half-lives for volatile organic compounds. Atmos Environ 22:2165-2170.
- \*Gossett JM. 1987. Measurement of Henry's Law constant for Cl and C2 chlorinated hydrocarbons. Environ Sci Technol 21:202-206.
- \*Graham RC, Robertson JK. 1988. Analysis of trihalomethanes in soft drinks: An instrumental analysis experiment. J Chem Educ 65(8):735-737.

- Grass0 P, Sharratt M, Davies DM, et al. 1984. Neurophysiological and psychological disorders and occupational exposure to organic solvents. Food Chem Toxicol 22:819-852.
- \*Greenberg AE, Clesceri LS, Eaton AD. 1992. Method 6210 B. Purge and trap packed-column gas chromatographic/mass spectrometric method I. Standard methods for the examination of water and wastewater, 18th ed.
- Groger WKL, Grey TF. 1979. Effect of chloroform on the activities of liver enzymes in rats. Toxicology 14:23-38.
- \*Gulati DK, Hope E, Mounce RC, et al. 1988. Chloroform: Reproduction and fertility assessment in CD-l mice when administered by gavage. Report by Environmental Health Research and Testing, Inc., Lexington, KY to National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- \*Haddad LM, Winchester JF, eds. 1990. Clinical management of poisoning and drug overdose. 2nd edition. Philadelphia, PA: WB Saunders.
- "Hajimiragha H, Ewers U, Jansen-Rosseck R, et al. 1986. Human exposure to volatile halogenated hydrocarbons from the general environment. Int Arch Occup Environ Health 58:141-150.
- \*Hakim A, Jain AK, Jain R. 1992. Chloroform ingestion causing toxic hepatitis. J Assoc Physicians India 40(7):477.
- "Hampson RF. 1980. Chemical kinetic and photochemical data sheets for atmospheric reactions. Washington, DC: U.S. Department of Transportation.
- \*Hansch C, Leo AJ. 1985. Medchem Project Issue 26. Claremont, CA: Pomona College.
- \*Harris RA, Groh GI. 1985. Membrane disordering effects of anesthetics are enhanced by gangliosides. Anesthesiology 62: 115-1 19.
- \*Harris RH, Highland JH, Rocricks JV, et al. 1984. Adverse health effects at a Tennessee hazardous waste disposal site. Hazardous Waste 1: 183-204.
- \*Harris RN, Ratnayake JH, Garry VF, et al. 1982. Interactive hepatotoxicity of chloroform and carbon tetrachloride. Toxicol Appl Pharmacol 63:281-291.
- \*Hawley GG, ed. 1981. The condensed chemical dictionary. 10th ed. New York, NY: Van Nostrand Reinhold, 237.
- \*Haydon DA, Requena J, Simon AJB. 1988. The potassium conductance of the resting squid axon and its blockage by clinical concentrations of general anaesthetics. J Physiol 402:363-374.
- Haydon DA, Simon AJB. 1988. Excitation of the squid giant axon by general anaesthetics. J Physiol 402:375-389.
- \*HazDat. 1994. Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, GA. October 30,

- \*HazDat. 1996. Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, GA. May 15, 1996.
- \*Heikes DL. 1987. Purge and trap method for determination of volatile hydrocarbons and carbon disulfide in table-ready foods. J Assoc Off Anal Chem 70:215-277.
- \*Heikes DL, Hopper ML. 1986. Purge and trap method for determination of fumigants in whole grains, milled grain products, and in intermediate grain-based foods. J Assoc Off Anal Chem 69:990-998.
- \*Heilbrunn G, Liebert E, Szanto PB. 1945. Chronic chloroform poisoning: Clinical and pathologic report of a case. Arch Neurol Psych 53:68-72.
- \*Heindel JJ, Chapin RE, George J, et al. 1995. Assessment of the reproductive toxicity of a complex mixture of 25 groundwater contaminants in mice and rats. Fund Appl Toxicol 25:9-19
- \*Helz GR, Hsu RY. 1978. Volatile chloro- and bromocarbons in coastal waters. Limnol Oceanogr 23:858-869.
- \*Henson JM, Yates, MV, Cochran JW, et al. 1988. Microbial removal of halogenated methanes, ethanes, and ethylenes in an aerobic soil exposed to methane. Fed Eur Microbial Sot Microbial Ecol 53:193-201.
- Herren-Freund SL, Pereira MA. 1986. Carcinogenicity of by-products of disinfection in mouse and rat liver. Environ Health Perspect 69:59-65.
- \*Herren-Freund SL, Pereira MA. 1987. The carcinogenicity of organic chemicals found in drinking water. Proceedings Water Quality Technology Conference, Volume Date 1986, 14 (Advances in Water Analysis and Treatment):485-500.
- \*Hewitt LA, Palmason C, Masson S, et al. 1990. Evidence for the involvement of organelles in the mechanism of ketone-potentiated chloroform-induced hepatotoxicity. Liver 10:35-48.
- \*Hewitt WR, Brown EM. 1984. Nephrotoxic interactions between ketonic solvents and halogenated aliphatic chemicals. Fundam Appl Toxicol 4:902-908.
- Hewitt WR, Brown EM, Plaa GL. 1983. Relationship between the carbon skeleton length of ketonic solvents and potentiation of chloroform-induced hepatotoxicity in rats. Toxicol Lett 16:297-304.
- \*Hewitt WR, Miyajima H, Cote MG, et al. 1979. Acute alteration of chloroform-induced hepato- and nephrotoxicity by mirex and kepone. Toxicol Appl Pharmacol 48:509-527.
- Hewitt WR, Miyajima H, Cote MG, et al. 1980. Acute alteration of chloroform-induced hepato- and nephrotoxicity by n-hexane, methyl n-butyl ketone, and 2,5-hexanedione. Toxicol Appl Pharmacol 53:230-248.
- \*Heywood R, Sortwell RJ, Noel PRB, et al. 1979. Safety evaluation of toothpaste containing chloroform. III. Long-term study in beagle dogs. J Environ *Pathol* Toxicol 2:835-851.

- Hiasa Y, Ito N. 1987. Experimental induction of renal tumors. CRC Crit Rev Toxicol 17:279-343.
- \*Hickey RF, Vanderwielen J, Switzenbaum MS. 1987. Effects of organic toxicants on methane production and hydrogen gas levels during the anaerobic digestion of waste activated sludge. Water Res 21(11):1417-1427.
- Hill RN. 1977. Differential toxicity of chloroform in the mouse. Ann NY Acad Sci 298: 170-176.
- Hill RN, Clemens TL, Liu DK, et al. 1975. Genetic control of chloroform toxicity in mice. Science 190:159-161.
- \*Hjelle J. 1990. Halogenated hydrocarbon toxicity in proximal tubules (human, rabbits). Crisp Data Base National Institutes of Health.
- \*Ho JSY. 1989. A sequential analysis for volatile organics in water by purge-and-trap capillary column gas chromatography with photoionization and electrical conductivity detectors in series. J Chromatogr Sci 27:91-98.
- \*Hoigne J, Bader H. 1988. The formation of trichloronitromethane (chloropicrin) and chloroform in a combined ozonation/chlorination treatment of drinking water. Water Res 22:313-319.
- \*Hollod GJ, Wilde EW. 1982. Trihalomethanes in chlorinated cooling water of nuclear reactors. Bull Environ Contam Toxicol 28:404-408.
- Holm L, Holmberg G. 1987. Exposures to carcinogens and consequences of listing of carcinogens in the Swedish working environment. Reg Toxicol Pharmacol 7:185-199.
- \*Hook JB, Smith JH. 1985. Biochemical mechanisms of nephrotoxicity. Transplant Proc 17:41-50.
- \*HSDB. 1994. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. May 1994.
- \*HSDB. 1996. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. October 1996.
- \*Hubrich C, Stuhl F. 1980. The ultraviolet absorption of some halogenated methanes and ethanes of atmospheric interest. J Photochem 12:93-107.
- \*IARC. 1979. IARC monographs on the evaluation of carcinogenic risk of chemicals to humans. Vol. 20: Some halogenated hydrocarbons. Lyon, France: World Health Organization, 401-427.
- \*IARC. 1987. IARC Monographs on the evaluation of carcinogenic risks to humans. Overall evaluations of carcinogenicity: An updating of IARC monographs, Volumes 1 to 42. Lyon, France: World Health Organization, IARC Suppl 7, 60.
- \*Ijsselmuiden CB, Gaydos C, Feighner B, et al. 1992. Cancer of the pancreas and drinking water: A population based case control study in Washington County, Maryland. American Journal of Epidemiology 136(7):836-842.

- \*Ikatsu H, Nakajima T. 1992. Hepatotoxic interaction between carbon tetrachloride and chloroform in ethanol treated rats. Arch Toxicol 66(8):580-586.
- \*Ilett KF, Reid WD, Sipes IG, et al. 1973. Chloroform toxicity in mice: Correlation of renal and hepatic necrosis with covalent binding of metabolites to tissue macromolecules. Exp Mol *Pathol* 19:215-229.
- \*IRIS. 1995. Integrated Risk Information System. U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office, Cincinnati, OH.
- \*Islam MS, Zhao L, McDougal JN, et al. 1995. Uptake of chloroform by skin during short exposures to contaminated water. Risk Analysis 15(3):343-352.
- \*Jakobson I, Wahlberg JE, Holmberg B, et al. 1982. Uptake via the blood and elimination of 10 organic solvents following epicutaneous exposure of anesthetized guinea pigs. Toxicol Appl Pharmacol 63:181-187.
- \*Jeffers PM, Ward LM, Woytowitch LM, et al. 1989. Homogenous hydrolysis rate constants for selected chlorinated methanes, ethanes, ethenes, and propanes. Environ Sci Technol 23:967-969.
- Jernigan JD, Harbison RD. 1982. Role of biotransformation in the potentiation of halocarbon hepatotoxicity by 2,5-hexanedione. J Toxicol Environ Health 9:761-781.
- \*Jo WK, Weisel CP, Lioy PJ. 1990. Routes of chloroform exposure and body burden from showering with chlorinated tap water. Risk Anal 10(4):575-580.
- John JA, Wroblewski DJ, Schwetz BA. 1984. Teratogenicity of experimental and occupational exposure to industrial chemicals. Issues and Reviews in Teratology 8:267-324.
- \*Jones WM, Margolis G, Stephen CR. 1958. Hepatotoxicity of inhalation anesthetic drugs. Anesthesiology 19:7 15-723.
- \*Jorgenson TA, Meierhenry EF, Rushbrook CJ, et al. 1985. Carcinogenicity of chloroform in drinking water to male Osborne-Mendel rats and female B6C3F<sub>1</sub> mice. Fundam Appl Toxicol 5:760-769.
- \*Jorgenson TA, Rushbrook CJ. 1980. Effects of chloroform in the drinking water of rats and mice: Ninety-day subacute toxicity study. Report by SRI International, Menlo Park, CA to Health Effects Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH.
- \*Kanada M, Miyagawa M, Sato M, et al. 1994. Neurochemical profile of effects of 28 neurotoxic chemicals on the central nervous system in rats (1) effects of oral administration on brain contents of biogenic amines and metabolites. Ind Health 32: 145-164.
- \*Kasso WV, Wells MR. 198 1. A survey of trihalomethanes in the drinking water system of Murfreesboro, Tennessee, USA. Bull Environ Contam Toxicol 27:295-302.

- \*Kawamura K, Kaplan IR. 1983. Organic compounds in the rainwater of Los Angeles. Environ Sci Technol 17:497-501.
- \*Kelly TJ, Mukund R, Spicer CW, et al. 1994. Concentrations and transformations of hazardous air pollutants. Environ Sci Technol 28(8):378-387.
- Kerfoot HB. 1987. Soil-gas measurement for detection of ground water contamination by volatile organic compounds. Environ Sci Technol 21:1022-1024.
- \*Kimura ET, Ebert DM, Dodge PW. 1971. Acute toxicity and limits of solvent residue for sixteen organic solvents. Toxicol Appl Pharmacol 19:699-704.
- \*King RB. 1993. Topical aspirin in chloroform and the relief of pain due to herpes zoster and postherpetic neuralgia. Arch Neural 50:1046-1053.
- \*Kirkland DJ, Smith KL, Van Abbe NJ. 1981. Failure of chloroform to induce chromosome damage or sister-chromatid exchanges in cultured human lymphocytes and failure to induce reversion in Escherichia coli. Food Cosmet Toxicol 19:651-656.
- Kitchin KT, Brown JL. 1989. Biochemical effects of three carcinogenic chlorinated methanes in rat liver. Teratogen Carcinogen Mutagen 9:61-69.
- \*Klaassen CD, Plaa GL. 1966. Relative effects of various chlorinated hydrocarbons on liver and kidney function in mice. Toxicol Appl Pharmacol 9: 139- 151.
- \*Klaassen CD, Plaa GL. 1967. Relative effects of various chlorinated hydrocarbons on liver and kidney function in dogs. Toxicol Appl Pharmacol 10: 119-131.
- Klaunig JE, Ruth RJ. 1990. Biology of disease: Role of inhibition of intercellular communication in carcinogenesis. Lab Invest 62:135-146.
- \*Klaunig JE, Ruth RJ, Pereira MA. 1986. Carcinogenicity of chlorinated methane and ethane compounds administered in drinking water to mice. Environ Health Perspect 69: 89-95.
- \*Kluwe WM, Hook JB. 1981. Potent&ion of acute chloroform nephrotoxicity by the glutathione depletor diethyl maleate and protection by the microsomal enzyme inhibitor piperonyl butoxide. Toxicol Appl Pharmacol 59:457-466.
- Kniepert E, Gorisch V. 1988. Influence of alcohol pretreatment on effects of chloroform in rats. Biomed Biochim Acta 47:197-203.
- \*Kramer MD, Lynch CF, Isacson P, et al. 1992. The association of waterborne chloroform with intrauterine growth retardation. Epidemiology 3(5):407-413.
- \*Krasner SW, McGuire MJ, Jacangelo JG, et al. 1989. The occurrence of disinfection by-products in U.S. drinking water. J Am Water Works Assoc 81:41-53.
- \*Krishnan K, Andersen M. 1994. Physiologically-based pharmacokinetic modeling in toxicology. In: Hayes W, ed. Principles and methods of toxicology, 3rd edition. New York, NY: Raven Press, Ltd.

- \*Krishnan K, Andersen M, Clewell HJ III, et al. 1994. Physiologically-based pharmacokinetic modeling of chemical mixtures. In: Yang RSA, ed. Toxicology of chemical mixtures. New York, NY: Academic Press.
- \*Kroll RB, Robinson GD, Chung JH. 1994a. Characterization of trihalomethane (THM)-induced renal dysfunction in the rat. II: Relative potency of THMs in promoting renal dysfunction, Arch Environ Contam Toxicol 27(1):5-7.
- \*Kroll RB, Robinson GD, Chung JH. 1994b. Characterization of trihalomethane (THM)-induced renal dysfunction in the rat. I: Effects of THM on glomerular filtration and renal concentrating ability. Arch Environ Contam Toxicol 27(1): 1-4.
- \*Kroneld R. 1986. Chloroform in tap water and human blood. Bull Environ Contam Toxicol 36:477-483.
- Kroneld R. 1989. Volatile pollutants in the environment and human tissues. Bull Environ Contam Toxicol 42:873-877.
- \*Krotoszynski B, Bruneau GM, O'Neill HJ. 1979. Measurement of chemical inhalation exposure in urban population in the presence of endogenous effluents. J Anal Toxicol 3:225-234.
- Krus S, Zaleska-Rutczynska Z. 1969. Morphological counterparts of the genetically determined resistance of mice to chloroform poisoning. Experientia 26: 101-102.
- Kunke KS, Strunk RC. 1981. Complement synthesis by guinea pig peritoneal macrophages: Failure to detect chemical carcinogens. J Nat1 Cancer Inst 66:141-146.
- \*Kutob SD, Plaa GL. 1962. The effect of acute ethanol intoxication on chloroform-induced liver damage. J Pharmacol Exp Ther 135:245-251.
- \*Kylin B, Reichard H, Sumegi I, et al. 1963. Hepatotoxicity of inhaled trichloroethylene, tetrachloroethylene and chloroform. Single exposure. Acta Pharmacol Toxicol 20: 16-26.
- \*Land PC, Owen EL, Linde HW. 1979. Mouse sperm morphology following exposure to anesthetics during early spermatogenesis. Anesthesiology 51:259.
- \*Land PC, Owen EL, Linde, HW. 1981. Morphologic changes in mouse spermatozoa after exposure to inhalation anesthetics during early spermatogenesis. Anesthesiology 5453-56.
- \*Landauer MR, Lynch MR, Balster RL, et al. 1982. Trichloromethane-induced taste aversions in mice. Neurobehav Toxicol Teratol 4:305-309.
- Landon EJ, Naukam RJ, Sastry BVR. 1986. Effects of calcium channel blocking agents on calcium and centrilobular necrosis in the liver of rats treated with hepatotoxic agents. Biochem Pharmacol 35:697-705.
- \*LaRegina J, Bozzelli JW, Harkov R, et al. 1986. Volatility organic compounds at hazardous waste sites and a sanitary landfill in New Jersey. An up-to-date review of the present situation. Environ Prog 5: 18-27.

- \*Larson JL, Sprankle CS, Butterworth BE. 1994a. Lack of chloroform-induced DNA repair *in vitro* and *in vivo* in hepatocytes of female B6C3F<sub>1</sub> mice. Environ Mol Mutagen 23(2):132-136.
- \*Larson JL, Templin MV, Wolf DC. 1996. A 90-day chloroform inhalation study in female and male B6C3Fl mice: Implications for cancer risk assessment. Fundamental and Applied Toxicology 30:118-137.
- \*Larson JL, Wolf DC, Butterworth BE. 1993. Acute hepatotoxic and nephrotoxic effects of chloroform in male F-344 rats and female B6C3F<sub>1</sub> mice. Fundam Appl Toxicol 20(3):302-315.
- \*Larson JL, Wolf DC, Butterworth BE. 1994b. Induced cytotoxicity and cell proliferation in the hepatocarcinogenicity of chloroform in female B6C3Ft mice: comparison of administration by gavage in corn oil vs ad libitum in drinking water. Fund Appl Toxicol 22:90-102.
- \*Larson JL, Wolf DC, Butterworth BE. 1995a. Induced regenerative cell proliferation in livers and kidneys of male F-344 rats given chloroform in corn oil by gavage or ad libitum in drinking water. Toxicology 95:73-86.
- \*Larson JL, Wolf DC, Mery S, et al. 1975b. Toxicity and cell proliferation in the liver, kidneys and nasal passages of female F-344 rats, induced by chloroform administered by gavage. Fd Chem Toxic 33(6):443-456.
- \*Larson JL, Wolf DC, Mery S, et al. 1995b. Toxicity and cell proliferation in the liver kidneys and nasal passages of female F-344 rats, inudced by chloroform administered by gavage. Fd Chem Toxic 33(6):443-456.
- \*Larson JL, Wolf DC, Morgan KT, et al. 1994c. The toxicity of l-week exposures to inhaled chloroform in female B6C3F<sub>1</sub> mice and male F-344 rats. Fund Appl Toxicol 22:431-446.
- Laurie RD, Bercz JP, Wessendarp TK, et al. 1986. Studies of the toxic interactions of disinfection by-products. Environ Health Perspect 69:203-207.
- \*Lavigne JG, Marchand C. 1974. The role of metabolism in chloroform hepatotoxicity. Toxicol Appl Pharmacol 29:3 12-326.
- \*Lehmann KB, Flury FF. 1943. Chlorinated hydrocarbons. In: Lehman KB, Flury FF, eds. Toxicology and Hygiene of Industrial Solvents. Baltimore, MD: Williams and Wilkins, 138-145 and 191-196.
- \*Lehmann KB, Hasegawa. 1910. [Studies of the absorption of chlorinated hydrocarbons in animals and humans,] Arch Hyg 72:327. (German)
- \*Letteron P, Degott C, Labbe G, et al. 1987. Methoxsalen decreases the metabolic activation and prevents the hepatotoxicity and nephrotoxicity of chloroform in mice. Toxicol Appl Pharmacol 9 1:266-273.
- \*Leung H. 1993. Physiologically-based pharmacokinetic modeling. General and applied toxicology. Vol. I. Ballantine B, Marro T, Turner T, eds. New York, NY: Stockton Press, 153-164.

- \*Levesque B, Ayotte P, LeBlanc A, et al. 1994. Evaluation of dermal and respiratory chloroform exposure in humans. Environ Health Perspect 102(12): 1082-1087.
- \*Li G Hanai Y, Miyata M, et al. 1994. [Aggravating effects of chloroform and P-dichlorobenzene on experimental allergic conjunctivitis.] Folia Ophthalmol Jpn 45(5):475-480. (Japanese)
- \*Li LH, Jiang XZ, Liang YX, et al. 1993. Studies on the toxicity and maximum allowable concentration of chloroform. Biomed Environ Sci 6(2): 179- 186.
- \*Liang JC, Hsu TC, Henry JE. 1983. Cytogenetic assays for mitotic poisons. The grasshopper embryo system for volatile liquids. Mutat Res 113:467-479.
- \*Lipsky MM, Skinner M, O'Connell C. 1993. Effects of chloroform and bromodichloromethane on DNA synthesis in male F344 rat kidney. Environ Health Perspect 10l (Suppl 5):249-252.
- Lofberg B, Tjalve H. 1986. Tracing tissues with chloroform-metabolizing capacity in rats. Toxicology 39: 13-35.
- \*Long JL, Stensel HD, Ferguson JF, et al. 1993. Anaerobic and aerobic treatment of chlorinated aliphatic compounds. J Environ Engin 119(2):300-320.
- \*Lopez-Avila V, Heath N, Hu A. 1987. Determination of purgeable halocarbons and aromatics by photoionization and Hall electrolytic conductivity detectors connected in series. J Chromatog Sci 25:356-363.
- \*Lovegren NV, Fisher GS, Lehendre MG, et al. 1979. Volatile constituents of dried legumes. J Agric Food Chem 27:851-853.
- \*Lundberg I, Ekdahl M, Kronevi T, et al. 1986. Relative hepatotoxicity of some industrial solvents after intraperitoneal injection or inhalation exposure in rats. Environ Res 40:411-420.
- \*Lunt RL. 1953. Delayed chloroform poisoning in obstetric practice. Br Med J 1:489-490.
- \*Lurker PA, Clark CS, Elia VJ, et al. 1983. Worker exposure to chlorinated organic compounds from the activated-sludge wastewater treatment process. Am Ind Hyg Assoc J 44: 109-1 12.
- \*Lyman WJ, Reehl WF, Rosenblatt DH. 1982. Handbook of Chemical Property Estimation Methods. Environmental behavior of organic compounds. New York, NY: McGraw-Hill Book Co, 15-9 to 15-31.
- \*Mabey W, Mill T. 1978. Critical review of hydrolysis of organic compounds in water under environmental conditions. J Phys Chem Ref Data 7:383-415.
- \*Mailhot H. 1987. Prediction of algal bioaccumulation and uptake of nine organic compounds by ten physicochemical properties. Environ Sci Technol 2 1: 1009- 1013.
- \*Malten KE, Spruit D, Boemaars HGM, et al. 1968. Horny layer injury by solvents. Berufsdermatosen 16: 135- 147.

- \*Mansuy D, Beaune P, et al. 1977. Evidence for phosgene formation during liver microsomal oxidation of chloroform. Biochem Biophys Res Commun 79(2):5 13-5 17.
- \*Masuda Y, Nakayama N. 1982. Protective effect of diethyldithiocarbamate and carbon disulfide against liver injury induced by various hepatotoxic agents. Biochem Pharmacol 31:2713-2725.
- \*Masuda Y, Nakayama N. 1983. Protective action of diethyldithiocarbamate and carbon disulfide against renal injury induced by chloroform in mice. Biochem Pharmacol 32 (21)3127-3135.
- Masuda Y, Yano I, Murano T. 1980. Comparative studies on the hepatotoxic actions of chloroform and related halogenomethanes in normal and phenobarbital-pretreated animals. J Pharmacobio-Dynamics 3:53-64.
- \*Matsushima T. 1994. Carcinogenesis study of chloroform (inhalation). Japan Bioassay Laboratory, Japan Industrial Safety and Health Association, Kanagawa, Japan.
- McCarty LP, Flannagan DC, Randall SA, et al. 1992. Acute toxicity in rats of chlorinated hydrocarbons given via the intratracheal route. Human Exper Toxicol 11: 173- 177.
- \*McCarty LP, Malek RS, Larsen ER. 1979. The effects of deuteration on the metabolism of halogenated anesthetics in the rat. Anesthesiology 5 1: 106-110.
- \*McDonald MN, Vire DE. 1992. Chloroform in the endodontic operatory. J Endodontics 18(6):301-303.
- McGee MB, Jejurikar SG, VanBerkom LC. 1987. A double homicide as a result of chloroform poisoning. J Forensic Sci 32: 1453-1459.
- \*McGeehin MA, Reif JS, Becher JC, et al. 1993. Case control study of bladder cancer and water disinfection methods in Colorado. American Journal of Epidemiology 138(7):493-501.
- \*McKone TE. 1993. Linking a PBPK model for chloroform with measured breath concentrations in showers: implications for dermal exposure models. J Expo Anal Environ Epidemiol 3(3):339-365.
- \*McLean AEM. 1970. The effect of protein deficiency and microsomal enzyme induction by DDT and phenobarbitone on the acute toxicity of chloroform and a pyrrolizidine alkaloid, retrorsine. Br J Exp Pathol 51:317-321.
- \*McMartin DN, O'Connor JA Jr., Kaminsky LS. 1981. Effects of differential changes in rat hepatic and renal cytochrome p-450 concentrations on hepatotoxicity and nephrotoxicity of chloroform. Res Commun Chem Pathol Pharmacol 31:99-110.
- Mehendale HM, Purushotham KR, Lockard VG. 1989. The time course of liver injury and [3H]thymidine incorporation in chlordecone-potentiated CHC13 hepatotoxicity. Exp Mol *Pathol* 51:31-47.
- \*Merck Index. 1989. Merck index: An encyclopedia of chemicals, drugs, and biologicals. 1 lth ed. Budavari S, ed. Rahway NJ: Merck & Co., Inc.

- \*Mery S, Larson JL, Butterworth BE, et al. 1994. Nasal toxicity of chloroform in male F-344 rats and female B6C3F<sub>1</sub> mice following a l-week inhalation exposure. Toxicol Appl Pharmacol 125(2):214-227.
- \*Mieville R. 1992. High efficiency activated carbon for drinking water treatment. File 266, Federal Research in Progress.
- \*Miller RE, Randtke SJ, Hathaway LR, et al. 1990. Organic carbon and THM formation potential in Kansas groundwaters. Journal of the American Water Works Association 82:49-62.
- \*Mink FL, Brown TJ, Rickabaugh J. 1986. Absorption, distribution and excretion of C-trihalomethanes in mice and rats. Bull Environ Contam Toxicol 37:752-758.
- \*Mirsalis JC, Tyson CK, Butterworth BE. 1982. Detection of genotoxic carcinogens in the *in vivo-in vitro* hepatocyte DNA repair assay. Environ Mutagen 4553-562.
- \*Mitchell AD, Myhr BC, Rudd CJ, et al. 1988. Evaluation of the L5178Y mouse lymphoma cell system: Methods used and chemicals evaluated. Environ Mol Mutagen 12(Suppl 13):1-18.
- Moody DE, Smuckler EA. 1986. Disturbances in hepatic heme metabolism in rats administered alkyl halides. Toxicol Lett 32:209-214.
- \*Moore DH, Chasseaud LF, Majeed SK, et al. 1982. The effect of dose and vehicle on early tissue damage and regenerative activity after chloroform administration to mice. Food Chem Toxicol 20:95 1-954.
- \*Morimoto K, Koizumi A. 1983. Trihalomethanes induce sister chromatid exchanges in human lymphocytes in vitro and mouse bone marrow cells *in vivo*. Environ Res 32:72-79.
- Muller W. 1987. Chloroform: Detection of gene mutations in somatic cells in culture. HGPRT-test with V79 cells. Frankfurt, Germany: Pharma Research Toxicology and Pathology, Hoechst Aktiengesellschaft.
- \*Munson AE, Sain LE, Sanders VM, et al. 1982. Toxicology of organic drinking water contaminants: Trichloromethane, bromodichloromethane, dibromochloromethane and tribromomethane. Environ Health Perspect 46: 117- 126.
- \*Murray FJ, Schwetz BA, McBride JB, et al. 1979. Toxicity of inhaled chloroform in pregnant mice and their offspring. Toxicol Appl Pharmacol 50:515-522.
- \*Nakajima T, Elovaara E, Okino T, et al. 1995. Different contributions of cytochrome P450 2E1 and P450 2B1/2 to chloroform hepatotoxicity in rat. Toxicol Appl Pharm 133:215-222.
- \*Namkung E, Rittmann BE. 1987. Estimating volatile organic compound emissions from publicly owned treatment works. J Water Pollut Control Fed 59:670-678.
- \*NAS. 1980. Drinking water and health. Vol. 3. National Academy of Science. Washington, D.C.

- \*NAS/NRC. 1989. Biologic markers in reproductive toxicology. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.
- \*Nashelsky M, Dix JD, Adelstein H, et al. 1995. Homicide facilitated by inhalation of chloroform. Journal of Forensic Sciences 40(1): 134-138.
- \*NATICH. 1992. Acceptable ambient concentration guidelines or standards. In: NATICH data base report on state, local and EPA air toxics activities. National Air Toxics Information Clearinghouse, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, State and Territorial Air Pollution Program Administrators, Association of Local Air Pollution Control Officials., 99.
- \*NCI. 1976. Report on carcinogenesis bioassay of chloroform. Bethesda, MD: Carcinogenesis Program, National Cancer Institute.
- \*Needham LL, Ashley DL, Hill RH Jr., et al. 1990. A program for assessing background levels of 52 organic toxicants in the U.S. population. Pp. 453-458. Indoor Air '90: The Fifth International Conference on Indoor Air Quality and Climate.
- \*Newell GW, Dilley JV. 1978. Teratology and acute toxicology of selected chemical pesticides administered by inhalation. Report by Stanford Research Institute, Menlo Park, CA to Health Effects Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Research Triangle Park, NC.
- \*NFPA. 1994. Fire Protection Guide to Hazardous Materials, 1 lth edition, National Fire Protection Association, Quincy, MA.
- \*Nicholson AA, Meresz 0, Lemyk B. 1977. Determination of free and total potential halofonns in drinking water. Anal Chem 49:814-819.
- \*Nicholson BC, Maguire BP, Bursill DB. 1984. Henry's law constants for the trihalomethanes: Effects of water composition and temperature. Environ Sci Technol 28:5 18-521.
- NIOSH. 1974. Criteria for a recommended standard occupational exposure to chloroform. Rockville, MD: National Institute for Occupational Safety and Health.
- NIOSH. 1977. Criteria for a recommended standard occupational exposure to waste anesthetic gases and vapors. Publ. No. (NIOSH) 77-140. Washington, DC: Department of Health, Education, and Welfare.
- \*NIOSH. 1984. Current awareness file. Registry of Toxic Effects of Chemical Substances (RTECS). Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1987. NIOSH manual of analytical methods. 3rd ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. DHHS (NIOSH) publication no. 84-100, revision 1.

- \*NIOSH. 1989. National Occupational Exposure Survey (NOES) as of March 29,1989. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1990. Pocket guide to chemical hazards. DHHS (NIOSH) Publ. No. 90-117. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1992. NIOSH recommendations for occupational safety and health, compendium of policy documents and statements. Cincinnati, OH.
- \*NIOSH. 1994. Method 1003, halogenated hydrocarbons, NIOSH manual of analytical methods 4th edition, U. S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NOES. 1991. National Occupational Exposure Survey (1981- 1983): Chloroform. Cincinnati, OH: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health.
- \*NRC/NAS. 1993. Telecommunication regarding compilation of current EEGLs and CEGLs. National Research Council/National Academy of Science, Washington, D.C.
- \*NTDB. 1994. National Trade Data Bank. Washington, DC: UCDOC, Bureau of the Census (database on CD-ROM).
- \*NTDB. 1995. National Trade Data Bank. Washington, DC: UCDOC, Bureau of the Census (database on CD-ROM).
- \*NTP. 1989. Fifth annual report on carcinogens. Summary 1989. Report to the National Institute of Environmental Health Sciences, Research Triangle Park, NC by Technical Resources, Inc., Rockville, MD. NTP-89-239.
- \*NTP. 1995. Printed long term technical reports and short term toxicity study reports. National Toxicology Program. Management status report. Division of Toxicology research and Testing. National Institute of Environmental Health Sciences. July 7, 1995.
- O'Hara TM, Borzelleca JF, Clarke EC, et al. 1989. A CC14/HC13 interaction study in isolated hepatocytes: Selection of a vehicle. Fundam Appl Toxicol 13:605-615.
- \*Ohio River Valley Water Sanitation Commission. 1980. Assessment of water quality conditions. Ohio River Mainstream 1978-9. Cincinnati, OH: Ohio River Valley Water Sanitation Commission.
- \*Ohio River Valley Water Sanitation Commission. 1982. Assessment of water quality conditions. Ohio River mainstream 1980-81. Cincinnati, OH: Ohio River Valley Water Sanitation Commission.
- OHM/TADS. 1990. Oil and Hazardous Materials Technical Assistance Data System.
- \*OSHA. 1974. U.S. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.

- \*OSHA. 1979. Method No. 05. Collection on charcoal adsorbent, desorption with carbon disulfide, analysis by gas chromatography using a flame ionization detector. Organic Methods Evaluation Branch, Occupational Safety and Health Administration Analytical Lab, Salt Lake City, UT. May 1979.
- \*OTA. 1990. Neurotoxicology: Identifying and controlling poisons of the nervous system. Office of Technology Assessment, Washington, DC. OTA-BA-438.
- \*Otson R, FellinP, Tran Q. 1994. VOCs in representative Canadian residences. Atmospheric Environment 28(22):3563-3569.
- Oura E, Raiha NCR, Suomalainen H. 1966. Influence of some alcohols and narcotics on the adenosine phosphates in the liver of the mouse. Ann Med Exp Biol Fenn 45:57-62.
- \*Paasivirta J, Knuutinen J, Knuutila M, et al. 1988. Lignin and organic chlorine compounds in lake water and the role of the chlorobleaching effluents. Chemosphere. 17:147-158.
- \*Palmer AK, Street AE, Roe JC, et al. 1979. Safety evaluation of toothpaste containing chloroform. II. Long term studies in rats. J Environ Pathol Toxicol 2:821-833.
- \*Park KS, Sorensen DL, Sims JL, et al. 1988. Volatilization of wastewater trace organics in slow rate land treatment systems. Haz Waste Haz Mat 5 (3):219-229.
- Parkki MG. 1986. Biotransformation reactions and active metabolites. In: Riihimaki V, Ulfvarson U, eds. Safety and health aspects of organic solvents. Proceedings of the international course on safety and health aspects of organic solvents held in Espoo, Finland, April 22-26, 1985. New York, NY: Alan R. Liss, Inc., 89-96.
- \*Parsons JS, Mitzner S. 1975. Gas chromatographic method for concentration and analysis of traces of industrial organic pollutants in environmental air and stacks. Environ Sci Technol 9:1053-1058.
- Paul BB, Rubinstein D. 1963. Metabolism of carbon tetrachloride and chloroform by the rat. J Pharmacol Exp Ther 141:141-148.
- \*Pellizzari ED, Erickson MD, Zweidinger RA. 1979. Formulation of preliminary assessment of halogenated organic compounds in man and environmental media. Research Triangle Park, NC: U.S. Environmental Protection Agency. EPA 560/13-79-006.
- \*Pellizzari ED, Hartwell TD, Harris BSH III, et al. 1982. Purgeable organic compounds in mother's milk. Bull Environ Contam Toxicol 28:322-328.
- \*Pellizzari ED, Hartwell TD, Perritt RL, et al. 1986. Comparison of indoor and outdoor residential levels of volatile organic chemicals in five U.S. geographical areas. Environ Intern 12:619-623.
- \*Peoples AJ, Pfaffenberger CD, Shafik TM, et al. 1979. Determination of volatile purgeable halogenated hydrocarbons in human adipose tissue and blood serum. Bull Environ Contam Toxicol 23:244-249.

- \*Pereira MA. 1994. Route of administration determines whether chloroform enhances or inhibits cell proliferation in the liver of B6C3Fl mice. Fundam Appl Toxicol 23(1):87-92.
- Pereira MA, Daniel FB, Lin ELC. 1984. Relationship between metabolism of haloacetonitriles and chloroform and their carcinogenic activity. In: Jolley RL, Bull RJ, Davis WP, et al., eds. Water Chlorination: Chemistry, Environmental Impact and Health Effects. Volume 5. Lewis Publishers, Inc., 229-236.
- Pereira MA, Lin LC, Lippitt JM, et al. 1982. Trihalomethanes as initiators and promoters of carcinogenesis. Environ Health Perspect 46:151-156.
- Perera F, Brennan T, Fouts JR. 1989. Comment on the significance of positive carcinogenicity studies using gavage as the route of exposure. Environ Health Perspect 79:315-321.
- \*Perocco P, Prodi G. 1981. DNA damage by haloalkanes in human lymphocytes cultured in vitro. Cancer Lett 13:213-218.
- \*Petrelli G, Siepi G, Miligi L, et al. 1993. Solvents in pesticides. Stand J Work Environ Health 19(1):63-65.
- \*Pfaffenberger CD, Peoples AJ, Enos HF. 1980. Distribution of volatile halogenated organic compounds between rat blood serum and adipose tissue. Int J Environ Anal Chem 8:55-65.
- \*Phillips M, Greenberg J. 1992. Ion-trap detection of volatile organic compounds in alveolar breath. Clin Chem (Winston-Salem, N. C.) 38(1):60-5.
- \*Phoon WH, Goh KT, Lee LT, et al. 1983. Toxic jaundice from occupational exposure to chloroform. Med J Malaysia 38:31-34.
- \*Picardal FW, Arnold RG, Couch H, et al. 1993. Involvement of cytochromes in the anaerobic biotransformation of tetrachloromethane by Shewanella putrefaciens 200. Appl Environ Microbial 59(11):3763-3770.
- \*Piersol GM, Tumen HJ, Kau LS. 1933. Fatal poisoning following the ingestion of chloroform. Med Clin North Am 17:587-601.
- \*Piwoni MD, Wilson JT, Walters DM, et al. 1986. Behavior of organic pollutants during rapid-infiltration of wastewater into soil. I. Processes, definition, and characterization using a microcosm. Haz Waste Haz Mat 3:43-55.
- \*Pleil JD, Lindstrom AB. 1995. Collection of a single alveolar exhaled breath for volatile organic compounds analysis. Am J Ind Med 28(1):109-121.
- \*Plumb RH Jr. 1987. A comparison of ground water monitoring data from CERCLA and RCRA sites. Ground Water Monitoring Review 7:94-100.
- \*Pohl LR, Bhooshan B, Whittaker NF, et al. 1977. Phosgene: a metabolite of chloroform. Biochem Biophys Res Commun 79(3):684-691.

- \*Pohl LR, Branchflower RV, Highet RJ, et al. 1981. The formation of diglutathionyl dithiocarbonate as a metabolite of chloroform, bromotrichloromethane, and carbon tetrachloride. Drug Metab Dispos 9:334-339.
- \*Pohl LR, George JW, Satoh H. 1984. Strain and sex differences in chloroform-induced nephrotoxicity: Different rates of metabolism of chloroform to phosgene by the mouse kidney. Drug Metab Dispos 12:304-308.
- \*Pohl LR, Gillette JR. 1984. Determination of toxic pathways of metabolism by deuterium substitution. Drug Metab Rev 15: 1335-1351.
- \*Pohl LR, Martin JL, George JW. 1980b. Mechanism of metabolic activation of chloroform by rat liver microsomes. Biochem Pharmacol 29:3271-3276.
- \*Pohl LR, Martin JL, Taburet AM, et al. 1980a. Oxidative bioaction of haloforms into hepatotoxins. Microsomes, Drug Oxidations, and Chemical Carcinogenesis 2:881-884.
- Purushotham KR, Lockard VG, Mehendale HM. 1988. Amplification of chloroform hepatotoxicity and lethality by dietary chlordecone (Kepone) in mice. Toxicol Pathol 16:27-34.
- Raabe OG. 1986. Inhalation uptake of selected chemical vapors at trace levels. Report by Laboratory for Energy-Related Health Research, School of Veterinary Medicine, University of California-Davis, Davis, CA, to Air Resources Board, State of California, Sacramento, CA.
- \*Ramsey JC, Andersen ME. 1984. A physiologically-based description of the inhalation pharmacokinetics of styrene in rats and humans. Toxicol Appl Pharmacol 73: 159-175.
- \*Ramus TL, Hein SJ, Thomas LC. 1984. Determinations of chlorinated hydrocarbons by gas chromatography using response factors calibration. J Chromatogr 3 14:243-25 1.
- \*Rando RJ, Poovey HG, Chang S-N. 1993. Collection and chemical derivatization of airborne phosgene with 1-(2-pyridyl)-piperazine and determination by high performance liquid chromatography. J Liquid Chromatogr 16(15):3291-3309.
- \*Rae KN, Virji MA, Maraca MA, et al. 1993. Role of serum markers for liver function and liver regeneration in the management of chloroform poisoning. J Anal Toxicol 17(2):99-102.
- \*Raymer JH, Thomas KW, Cooper SD, et al. 1990. A device for sampling of human alveolar air for the measurement of expired volatile organic compounds. J Anal Toxicol. 14:337-344.
- \*Recknagel RO, Glende EA, Waller RL, et al. 1982. Lipid peroxidation: Biochemistry, measurement, and significance in liver cell injury. In: Plaa GL, Hewitt WR, eds. Toxicology of the Liver. New York, NY: Raven Press, 213-241.
- \*Reddy TV, Daniel FB, Lin EL, et al. 1992. Chloroform inhibits the development of diethylnitrosamine-initiated, phenobarbital-promoted gamma-glutamyltranspeptidase and placental form glutathione S-transferase-positive foci in rat liver. Carcinogenesis 13(8):1325-1330.

### 8. REFERENCES

Reitz RH, Fox TR, Quast JF. 1982. Mechanistic considerations for carcinogenic risk estimation: Chloroform. Environ Health Perspect 46: 163-168.

Reitz RH, Gehring PJ, Park CN. 1978. Carcinogenic risk estimation for chloroform: An alternative to EPA's procedures. Food Cosmet Toxicol 16:511-514.

\*Reitz RH, Mendrala AL, Corley RA, et al. 1990. Estimating the risk of liver cancer associated with human exposures to chloroform using physiologically based pharmacokinetic modeling. Toxicol Appl Pharmacol 105:443-459.

Reitz RH, Quast JF, Scott WT, et al. 1980. Pharmacokinetics and macromolecular effects of chloroform in rats and mice. Implications for carcinogenic risk estimation. Water chlorination: environmental impact and health effects 3:983-993.

Reuber MD. 1978. Carcinomas and other lesions of the liver in mice ingesting organochlorine pesticides. Clin Toxicol 13:231-256.

\*Reunanen M, Kroneld R. 1982. Determination of volatile halocarbons in raw and drinking water, human serum, and urine by electron capture GC. J Chromatogr Sci 20:449-454.

Reynolds ES, Yee AG. 1967. Liver parenchymal cell injury. V. Relationships between patterns of chloromethane-Cl4 incorporation into constituents of liver *in vivo* and cellular injury. Lab Invest 16:591-603.

\*Rhee E, Speece RE. 1992. Maximal biodegradation rates of chloroform and trichloroethylene in anaerobic treatment. Water Sci Technol 25(3): 121-130

Robinson D, Mead GC, Barnes KA. 1981. Detection of chloroform in the tissues of freshly eviscerated poultry carcasses exposed to water containing added chlorine or chlorine dioxide. Bull Environ Contam Toxicol 27: 145-150.

\*Roe FJC, Palmer AK, Worden AN. 1979. Safety evaluation of toothpaste containing chloroform. I. Long-term studies in mice. J Environ Pathol Toxicol 2:799-819.

\*Rogers SE, Peterson DL, Lauer WC. 1987. Organic contaminants removal for potable reuse. J Water Pollut Control Fed 59:722-732.

\*Royston GD. 1924. Delayed chloroform poisoning following delivery. Am J Obstet Gynecol 10:808-814.

Rubinstein D, Kanics L. 1964. The conversion of carbon tetrachloride and chloroform to carbon dioxide by rat liver homogenates. Can J Biochem 42: 1577-1585.

Ruth RJ, Klaunig JE, Schultz NE, et al. 1986. Mechanisms of chloroform and carbon tetrachloride toxicity in primary cultured mouse hepatocytes. Environ Health Perspect 69:301-305.

\*Ruddick JA, Villeneuve DC, Chu I. 1983. A teratological assessment of four trihalomethanes in the rat. J Environ Sci Health B18:333-349.

- \*Sabljic A. 1984. Predictions of the nature and strength of soil sorption of organic pollutants by molecular topology. J Agric Food Chem 32:243-246.
- \*San Agustin J, Lim-Sylianco CY. 1978. Mutagenic and clastogenic effects of chloroform. Bulletin of the Philippine Biochemical Society 1:17-23.
- \*SANSS. 1990. Structure and Nomenclature Search System. Chemical Information System (CIS) computer database.
- Sato A, Nakajima T. 1984. Dietary carbohydrate- and ethanol-induced alteration of the metabolism and toxicity of chemical substances. Nutr Cancer 6:121-132.
- Sato A, Nakajima T. 1987. Pharmacokinetics of organic solvent vapors in relation to their toxicity. Stand J Work Environ Health 13:81-93.
- \*Sate A, Nakajima T, Koyama Y. 1981. Dose-related effects of a single dose of ethanol on the metabolism in rat liver of some aromatic and chlorinated hydrocarbons. Toxicol Appl Pharmacol 60:8-15.
- Savage RE Jr., DeAngelo AB, Guion C, et al. 1987. Studies on the mechanism of action of chloroform stimulation of rat hepatic ornithine decarboxylase (ODC). Res Commun Chem Pathol Pharmacol 58:97-1 13.
- Savage RE Jr., Nofzinger K, Bedell C, et al. 1989. Chloroform-induced multiple forms of omithine decarboxylase: Differential sensitivity of forms to enhancement by diethyl maleate and inhibition by ODC-antizyme. J Toxicol Environ Health 2757-64.
- Savage RE Jr., Pereira MA, DeAngelo AB. 1988. Chloroform induction of omithine decarboxylase antizyme (ODC-AZ) in male rat liver. J Toxicol Environ Health 1:97-101.
- Savage RE Jr., Westrich C, Guion C, et al. 1982. Chloroform induction of omithine decarboxylase activity in rats. Environ Health Perspect 46:157-162.
- \*Sawhney BL. 1989. Movement of organic chemicals through landfill and hazardous waste disposal sites. In: Reactions and movement of organic chemicals in soils. SSSA special publication no 22, 447-474.
- \*Sax NI. 1979. Dangerous properties of industrial materials. 5th ed. New York, NY: Van Nostrand Reinhold, 193.
- \*Scholler KL. 1970. Modification of the effects of chloroform on the rat liver. Br J Anaesth 42:603-605.
- \*Schroeder HG. 1965. Acute and delayed chloroform poisoning. Br J Anaesth 37:972-975.
- \*Schwetz BA, Leong BKJ, Gehring PJ. 1974. Embryo- and fetotoxicity of inhaled chloroform in rats. Toxicol Appl Pharmacol 28:442-45 1.

- \*Seto Y, Tsunoda N, Ohta H, et al. 1993. Determination of chloroform levels in blood using a headspace capillary gas chromatographic method. J Anal Toxicol 17(7):415-420.
- \*Shatkin J, Szejnwald-Brown H. 1991. Pharmacokinetics of the dermal route of exposure to volatile organic chemicals in water: a computer simulation model. Environ Res 56:90-108.
- Shields PG, Harris CC. 1990. Environmental causes of cancer. Med Clin North Am 74:263-277.
- Shubik P, Ritchie AC. 1953. Sensitivity of male dba mice to the toxicity of chloroform as a laboratory hazard. Science 117:285.
- \*Simmon VF, Kauhanen K, Tardiff RG. 1977. Mutagenic activity of chemicals identified in drinking water. In: Scott D, Bridges BA, Sobels FH, eds. Progress in Genetic Toxicology. Elsevier/North Holland Press. 249-258.
- Sims RC, Sims JL, DuPont RR. 1988. Human health effects assays. J Water Pollut Control Fed 60:1093-1 106.
- \*Singer PC. 1994. Control of disinfection by-products in drinking water. J Environ Eng 120(4):727-744.
- \*Singh HB. 1977. Atmospheric halocarbons: Evidence in favor of reduced average hydroxyl radical concentration in the troposphere. Geophys Res Lett 4:101-104.
- \*Singh HB, Salas JL, Smith AJ. 1981. Measurements of some potentially hazardous chemicals in urban environments. Atmos Environ 15:601-612.
- \*Singh HB, Salas LJ, Shigeisi H, et al. 1979. Atmospheric distributions, sources and sinks of selected halocarbon, hydrocarbons, SF6 + N20. Research Triangle Park, NC: U.S. Environmental Protection Agency. EPA 600/3-79- 107.
- \*Singh HB, Salas LJ, Stiles RE. 1982. Distribution of selected gaseous organic mutagens and suspect carcinogens in ambient air. Environ Sci Technol 16:872-880.
- \*Sipes IG, Krishna G, Gillette JR. 1977. Bioactivation of carbon tetrachloride, chloroform and bromotrichloromethane: Role of cytochrome P-450. Life Sciences 20: 1541-1548.
- \*Sittig M. 1994. World-wide limits for toxic and hazardous chemicals in air, water, and soil. Park Ridge, NJ: Noyes Publications.
- \*Smith AA, Volpitto PP, Gramling ZW, et al. 1973. Chloroform, halothane, and regional anesthesia: A comparative study. Anesth Analg 52:1-11.
- \*Smith AE, Evans JS. 1995. Uncertainty in fitted estimates of apparent *in vivo* metabolic constants for chloroform. Fundam Appl Toxicol 25:29-44.
- Smith JH, Hewitt WR, Hook JB. 1985. Role of intrarenal biotransformation in chloroform-induced nephrotoxicity in rats. Toxicology 79:166-174.

- \*Smith JH, Hook JB. 1983. Mechanism of chloroform nephrotoxicity. II. In *vitro* evidence for renal metabolism of chloroform in mice. Toxicol Appl Pharmacol 70:480-485.
- \*Smith JH, Hook JB. 1984. Mechanism of chloroform nephrotoxicity. III. Renal and hepatic microsomal metabolism of chloroform in mice. Toxicol Appl Pharmacol 73511-524.
- \*Smith JH, Maita K, Sleight SD, et al. 1984. Effect of sex hormone status on chloroform nephrotoxicity and renal mixed function oxidases in mice. Toxicology 30:305-316.
- Smith MK, Zenick H, George EL. 1986. Reproductive toxicology of disinfection by-products. Environ Health Perspect 69:177-182.
- \*Smyth HF Jr., Carpenter CP, Weil CS, et al. 1962. Range-finding toxicity data: List VI. Am Ind Hyg Assoc J 23:95-107.
- \*SRC. 1994a. Syracuse Research Center. Henry's Law Constant Program (HENRYWIN), version 2.50, Serial H0142). Chemcial Hazard Assessment Division, Environmental Chemistry Center, Syracuse, NY.
- \*SRC. 1994b. Syracuse Research Center. Aqueous Hydrolysis Rate Program (HYDROWIN) version 1.50a, Serial HYO126). Chemcial Hazard Assessment Division, Environmental Chemistry Center, Syracuse, NY.
- \*SRI. 1990. 1990 directory of chemical producers. United States of America. Menlo Park, CA: Stanford Research Institute International.
- \*SRI. 1993. 1993 directory of chemical producers. United States of America. Menlo Park, CA: Stanford Research Institute International.
- \*SRI. 1994. 1994 directory of chemical producers. United States of America. Menlo Park, CA: Stanford Research Institute International.
- \*SRI. 1995. Directory of chemical producers, United States of America. Menlo Park, CA: SRI International.
- \*St-Germain F, Mamer 0, Brunet J, et al. 1995. Volatile organic compound analysis by an inertial spray extraction interface coupled to an ion trap mass spectrometer. Anal Chem 67:4536-4541.
- \*Stacey NH. 1987a. Reduced glutathione and toxicity of cadmium/chloroform mixtures in isolated rat hepatocytes. In Vitro Toxicol 1: 189- 192.
- \*Stacey NH. 1987b. Assessment of the toxicity of chemical mixtures with isolated rat hepatocytes: Cadmium and chloroform. Fundam Appl Toxicol 9:616-622.
- Stacey NH. 1989. Toxicity of combinations of chlorinated aliphatic hydrocarbons *in vitro* and *in vivo*. In Vitro Toxicol 3:137-143.
- \*Staples CA, Werner AF, Hoogheem TJ. 1985. Assessment of priority pollutant concentrations in the United States using STORET database. Environ Toxicol Chem 4: 131-142.

- \*State of Kentucky. 1986. 401 KAR 63:022. New or modified sources emitting toxic air pollutants. Natural Resources and Environmental Protection Cabinet, Department for Environmental Protection, Division of Air Pollution (Proposed Regulation).
- \*Stefanovic J, Starsia Z, Murgasova I, et al. 1987. *In vitro* effects of organic solvents on immunity indicators in serum. J Hyg Epidemiol Microbial Immunol 31: 1-7.
- \*Stephens RD, Ball ND, Mar DM. 1986. A multimedia study of hazardous waste land fill gas migration. In: Pollutants in a Multimedia Environment. New York, NY: Plenum Press, 265-287.
- Stevens JL, Anders MW. 1979. Metabolism of haloforms to carbon monoxide III. Studies on the mechanism of the reaction. Biochem Pharmacol 28:3189-3194.
- \*Stevens JL, Anders MW. 1981. Effect of cysteine, diethyl maleate, and phenobarbital treatments on the hepatotoxicity of [IH]- and [2H]chloroform. Chem Biol Interact 37:207-217.
- \*Stoner GD, Conran PB, Greisiger EA, et al. 1986. Comparison of two routes of chemical administration on the lung adenoma response in strain A/J mice. Toxicol Appl Pharmacol 82: 19-3 1.
- \*Storms WW. 1973. Chloroform parties. J Am Med Assoc 225:160.
- \*Streete PJ, Ruprah M, Ramsey JD, et al. 1992. Detection and identification of volatile substances by headspace capillary gas chromatography to aid the diagnosis of acute poisoning. Analyst (London) 117(7):111 l-1 127.
- \*Sturrock J. 1977. Lack of mutagenic effect of halothane or chloroform on cultured cells using the azaguanine test system. Br J Anaesth 49:207-210.
- \*Suarez-Varela MM, Gonzalez AL. 1994. Chlorination of drinking water and cancer incidence. J Environ Path Toxicol Onocol 13(1):39-41.
- \*Suzuki T, Nezu K, Sasaki H, et al. 1994. Cytotoxicity of chlorinated hydrocarbons and lipid peroxidation in isolated rat hepatocytes. Biol Pharmaceut Bull 17(1):82-86.
- \*Symons JM, Bellar TA, Carswell JK, et al. 1975. National organic reconnaissance survey for halogenated organics. Journal of the American Water Works Association 67:634-647.
- \*Tabak HH, Quave SA, Mashni CI, et al. 1981. Biodegradability studies with organic priority pollutant compounds. J Water Pollut Control Fed 53:1503-1518.
- \*Taylor DC, Brown DM, Keeble R, et al. 1974. Metabolism of chloroform II. A sex difference in the metabolism of [14C]chlorofor-m in mice. Xenobiotica 4: 165-174.
- \*Testai E, DiMarzio S, Vittiozzi L. 1990. Multiple activation of chloroform in hepatic microsomes from uninduced B6C3F<sub>1</sub> mice. Toxicol Appl Pharmacol 104:496-503.
- \*Testai E, Gramenzi F, Di Marzio S, et al. 1987. Oxidative and reductive biotransformation of chloroform in mouse liver microsomes. Mechanisms and Models in Toxicology Arch Toxicol Suppl 11:42-44.

- Testai E, Vittozzi L. 1986. Biochemical alterations elicited in rat liver microsomes by oxidation and reduction products of chloroform metabolism. Chem Biol Interact 49:157-171.
- Thalhammer T, Kaschnitz R, Mittermayer K, et al. 1993. Organic solvents increase membrane fluidity and affect bile flow and K+ transport in rat liver. Biochem Pharmacol 46(7):1207-1215.
- Theiss JC, Stoner GD, Shimkin MB, et al. 1977. Test for carcinogenicity of organic contaminants of United States drinking waters by pulmonary tumor response in strain A mice. Cancer Res 37:2717-2720.
- \*Thompson DJ, Warner SD, Robinson VB. 1974. Teratology studies on orally administered chloroform in the rat and rabbit. Toxicol Appl Pharmacol 29:348-357.
- \*Thompson DW. 1994. Determination of volatile organic contaminants in bulk oils (edible, injectable, and other internal medicinal) by purge-and-trap gas chromatography/mass spectrometry. J AOAC Int 77(3):647-654.
- \*Topham JC. 1980. Do induced sperm-head abnormalities in mice specifically identify mammalian mutagen's rather than carcinogens? Mutat Res 74:379-387.
- \*Toraason M, Breitenstein MJ, Wey HE. 1992. Reversible inhibition of intercellular communication among cardiac myocytes by halogenated hydrocarbons. Fundam Appl Toxicol 18(1):59-65.
- \*Torkelson TR, Oyen F, Rowe VK. 1976. The toxicity of chloroform as determined by single and repeated exposure of laboratory animals. Am Ind Hyg Assoc J 37:697-705.
- \*Townsend E. 1939. Acute yellow atrophy of the liver. Two cases, with one recovery. Br Med J 2:558-560.
- \*Travis CC, Holton GA, Etnier EL, et al. 1986. Assessment of inhalation and ingestion population exposures from incinerated hazardous wastes. Environ Int 12:533-540.
- \*TRI92. 1994. Toxics Release Inventory 1992. Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, DC.
- \*TRI93. 1995. Toxics Release Inventory 1992. Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, DC.
- \*Tsuruta H. 1975. Percutaneous absorption of organic solvents. 1) Comparative study of the *in vivo* percutaneous absorption of chlorinated solvents in mice. Ind Health 13:227-236.
- \*Tumasonis CF, McMartin DN, Bush B. 1985. Lifetime toxicity of chloroform and bromodichloromethane when administered over a lifetime in rats. Ecotoxicol Environ Safety 9:233-240.
- \*Tumasonis CF, McMartin DN, Bush B. 1987. Toxicity of chloroform and bromodichloromethane when administered over a lifetime in rats. J Environ *Pathol* Toxicol Oncol 7:55-64.

- \*Uchrin CG, Mangels G. 1986. Chloroform sorption to New Jersey coastal plain groundwater aquifer solids. Environ Toxicol Chem 5:339-343.
- Uehleke H, Werner T. 1975. A comparative study on the irreversible binding of labeled halothane, trichlorofluoromethane, chloroform, and carbon tetrachloride to hepatic protein and lipids in vitro and *in vivo*. Arch Toxicol 34:289-308.
- \*Uehleke H, Werner T, Greim H, et al. 1977. Metabolic activation of haloalkanes and tests in vitro for mutagenicity. Xenobiotica 7:393-400.
- \*USITC. 1989. Synthetic organic chemicals, United States production and sales, 1988. USITC publication no 2219. Washington, DC: U.S. International Trade Commission.
- Utidijan HMD. 1976. Criteria Documents. 1. Recommendations for a chloroform standard. J Occup Med 18:253-257.
- \*Vallejo-Cordoba B, Nakai S. 1993. Using a simultaneous factor optimization approach for detection of volatiles in milk by dynamic headspace gas chromatographic analysis. J Agric Food Chem 41(12):2378-2384.
- \*Valzelli L, Kozak W, Skorupska M. 1988. Effect of some anesthetics on memory and exploration. Methods and Findings in Experimental and Clinical Pharmacology 10(4):239-242.
- \*Van Abbe NJ et al. 1982. Bacterial mutagenicity studies on chloroform *in vitro*. Food Chem Toxicol 20:557-561.
- \*van Beelen P, van Vlaardingen PLA, Fleuren-Kemila AK. 1994. Toxic effects of pollutants on the mineralization of chloroform in river sediments. Ecotoxicol Environ Safety 27(2):158-167.
- \*Van Dyke RA, Chenoweth MB, Poznak AV. 1964. Metabolism of volatile anesthetics I. Conversion *in vivo* of several anesthetics to 14CO2 and chloride. Biochem Pharmacol 13:1239-1247.
- \*van Vlaardigen PLA, van Beelen P. 1992. Toxic effects of pollutants on methane production in sediments of the River Rhine. Bull Environ Contam Toxicol 49: 780-786.
- \*van Vlaardingen PLA, van Beelen P. 1992. Toxic Effects of pollutants on methane production in sediments of the River Rhine. Bull Environ Contam Toxicol 49(5):780-786.
- \*Varma MM, Ampy FR, Verma K, et al. 1988. *In vitro* mutagenicity of water contaminants in complex mixtures. J Appl Toxicol 8:243-248.
- \*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. Aquatic Toxicology ASTM SIP 707. American Society for Testing and Materials 116-129.
- \*Verschueren K, ed. 1983. Handbook of Environmental Data on Organic Chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Company, 606-611.

- Vesell ES, Lang CM, White WJ, et al. 1976. Environmental and genetic factors affecting the response of laboratory animals to drugs. Fed Proc 35:1125-1132.
- \*Van Oettingen WF. 1964. The halogenated hydrocarbons of industrial and toxicologic importance. Amsterdam: Elsevier Publishing Co.
- \*Wallace CJ. 1950. Hepatitis and nephrosis due to cough syrup containing chloroform. Calif Med 731442443.
- \*Wallace LA. 1987. The total exposure assessment methodology (TEAM) study. EPA 600/56-87/002
- Wallace LA. 1989. The total exposure assessment methodology (TEAM) study: An analysis of exposures, sources, and risks associated with four volatile organic chemicals. J Am Coll Toxicol 8:883-895.
- \*Wallace LA. 1995. Human exposure to environmental pollutants: A decade of experience. Clinical and Experimental Allergy 25(1):4-9.
- \*Wallace LA, Hartwell TD, Perritt K, et al. 1987d. The influence of personal activities on exposure to volatile organic compounds. In: Proceedings of the 4th International Conference: Indoor Air Quality and Climate, Germany, 2-1 8 1 to 2-185.
- \*Wallace LA, Jungers R, Sheldon L, et al. 1987c. Volatile organic chemicals in 10 public-access buildings. EPA 600/D-87/152.
- \*Wallace LA, Pellizzari ED, Hartwell TD, et al. 1984. Personal exposure to volatile organic compounds. I. Direct measurements in breathing-zone air, drinking water, food, and exhaled breath. Environ Res 35:293-319.
- \*Wallace LA, Pellizzari ED, Hartwell TD, et al. 1986b. Concentrations of 20 volatile organic compounds in the air and drinking water of 350 residents of New Jersey compared with concentrations in their exhaled breath. J Occup Med 28:603-608.
- \*Wallace LA, Pellizzari ED, Hartwell TD, et al. 1987a. The TEAM study: Personal exposures to toxic substances in air, drinking water, and breath of 400 residents of New Jersey, North Carolina, and North Dakota. Environ Res 43:290-307.
- \*Wallace LA, Pellizzari ED, Hartwell TD, et al. 1988. The California TEAM study: Breath concentrations and personal exposures to 26 volatile compounds in air and drinking water of 188 residents of Los Angeles, Antioch, and Pittsburgh, CA. Atmos Environ 22:2141-2163.
- \*Wallace LA, Pellizzari ED, Hartwell TD, et al. 1989. The influence of personal activities on exposure to volatile organic compounds. Environ Res 50:37-55.
- \*Wallace LA, Pellizzari ED, Leaderer B, et al. 1987b. Emissions of volatile organic compounds from building materials and consumer products. Atmos Environ 21:385-395.

- \*Wallace LA, Pellizzari ED, Sheldon L, et al. 1986a. The total exposure assessment methodology (TEAM) study: Direct measurement of personal exposures through air and water for 600 residents of several U.S. cities. In: Cohen Y, ed. Pollutants in a Multimedia Environment. New York, NY: Plenum Press, 289-315.
- Walter CB. 1982. Safe handling of chemical carcinogens, mutagens, teratogens, and highly toxic substances. Ann Arbor, MI: Ann Arbor Science.
- \*Wang P-Y, Kaneko T, Sato A, et al. 1995. Dose and route dependent alteration of metabolism and toxicity of chloroform in fed and fasting rats. Toxicol Appl Pharm 135(1):119-126.
- \*Wang P-Y, Kaneko T, Tsukada H, et al. 1994. Dose and route dependency of metabolism and toxicity of chloroform in ethanol-treated rats. Arch Toxicol 69:18-23.
- \*Weast RC, ed. 1988. CRC Handbook of Chemistry and Physics. 69th edition 1988-1989. Boca Raton, FL: CRC Press, Inc. Pg C-350.
- \*Westrick JJ, Mello JW, Thomas RF. 1989. The groundwater supply survey. J Am Water Works Assoc 76152-59.
- \*Whitaker AM, Jones CS. 1965. Report of 1500 chloroform anesthetics administered with a precision vaporizer. Anesth Analg 44:60-65.
- \*White AE, Takehisa S, Eger EI, et al. 1979. Sister chromatid exchanges induced by inhaled anesthetics. Anesthesiology 50:426-430.
- \*WHO. 1984. Guidelines for drinking-water quality. World Health Organization, Geneva, Switzerland.
- Wikberg JES, Hede AR, Post C. 1987. Effects of halothane and other chlorinated hydrocarbons on a2-adenoceptors in the mouse cortex. Pharmacol Toxicol 61:271-277.
- \*Wilson J, Enfield CG, Dunlap WJ, et al. 1981. Transport and fate of selected organic pollutants in a sandy soil. J Environ Qual 10:501-506.
- \*Withey JR, Collins BT, Collins PG. 1983. Effect of vehicle on the pharmacokinetics and uptake of four halogenated hydrocarbons from the gastrointestinal tract of the rat. J Appl Toxicol 3:249-253.
- \*Wolf CR, Mansuy D, Nastainczyk W, et al. 1977. The reduction of polyhalogenated methanes by liver microsomal cytochrome P-450. Mol Pharmacol 13:698-705.
- \*Wood JA, Porter ML. 1987. Hazardous pollutants in class II landfills. J Air Pollut Control Assoc 37:609-615.
- \*Yang M, Wang L, Xie G, et al. 1993. Effects of intermediate metabolites of 37 xenobiotics on the catalytic activities of reconstituted cytochrome P-45OIIB 1 and P-450IA 1 enzyme systems. Biomed Environ Sci 6:8-26.

### 8. REFERENCES

- Yang RSH, Rauckman EJ. 1987. Toxicological studies of chemical mixtures of environmental concern at the National Toxicology Program: Health effects of groundwater contaminants. Toxicology 47: 15-34.
- \*Young TB, Kanarek MS, Tsiatis AA. 1981. Epidemiologic study of drinking water chlorination and Wisconsin female cancer mortality. J Nat1 Cancer Inst 67:1191-1198.
- \*Zepp RG, Braun AM, Hoigne J, et al. 1987. Photoproduction of hydrated electrons from natural organic solutes in aquatic environments. Environ Sci Technol 21:485-490.
- \*Zierler S, Feingold L, Danley RA, et al. 1988. Bladder cancer in Massachusetts related to chlorinated chloraminated drinking water: A case control study. Archives of Environmental Health 43(2): 195-200.

Zogorski JS. 1984. Experience in monitoring domestic water sources and process waters for trace organics. J Environ Sci Health A19:233-249.