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9. REFERENCES

- *ACGIH. 2001. Methyl bromide. In: Documentation of the threshold limit values and biological exposure indices, 7th edition. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.
- *ACGIH. 2015. Methyl bromide. In: TLVs and BEIs based on the documentation of the threshold limit values for chemical substances and physical agents and biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.
- *Adlercreutz H. 1995. Phytoestrogens: Epidemiology and a possible role in cancer protection. Environ Health Perspect 103(Suppl 7):103-112.
- *AEGLs. 2012. Acute Exposure Guideline Levels for Selected Airborne Chemicals: Volume 12. Washington, DC: National Academies. https://www.epa.gov/sites/production/files/2014-09/documents/methyl_bromide_volume12_0.pdf. March 23, 2016.
- *AIHA. 2015. Current ERPG values (2015). Fairfax, VA: American Industrial Hygiene Association. https://www.aiha.org/get-involved/AIHAGuidelineFoundation/EmergencyResponsePlanningGuidelines/Documents/2015%20ERPG%20Levels.pdf. March 23, 2016.
- *Akca ET, Serpil S, Sezer U, et al. 2009. Health profiles of methyl bromide applicators in greenhouses in Turkey. Ann Acad Med Singapore 38(8):707-713.
- *Alavanja MC, Samanic C, Dosemeci M, et al. 2003. Use of agricultural pesticides and prostate cancer risk in the Agricultural Health Study cohort. Am J Epidemiol 157(9):800-814.
- *Alexeeff GV, Kilgore WW. 1983. Methyl bromide. Residue Rev 88:101-153.
- +*Alexeeff GV, Kilgore W, Munoz P, et al. 1985. Determination of acute toxic effects in mice following exposure to methyl bromide. J Toxicol Environ Health 15:109-123.
- *Altman PL, Dittmer DS. 1974. Biological handbooks: Biology data book. Vol. III. 2nd ed. Bethesda, MD: Federation of American Societies of Experimental Biology, 1987-2008, 2041.
- *Andersen ME, Krishnan K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically based tissue dosimetry and tissue response models. In: Salem H, ed. Animal test alternatives: Refinement, reduction, and replacement. New York, NY: Marcel Dekker, Inc., 9-25.
- *Andersen ME, Clewell HJ, Gargas ML, et al. 1987. Physiologically based pharmacokinetics and the risk assessment process for methylene chloride. Toxicol Appl Pharmacol 87(2):185-205.

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^{*} Cited in text

⁺ Cited in supplemental document

- *Andersen ME, Gargas ML, Jones RA, et al. 1980. Determination of the kinetic constants for metabolism of inhaled toxicants *in vivo* using gas uptake measurements. Toxicol Appl Pharmacol 54:100-116.
- *Anderson TA, Rice PJ, Cink JH, et al. 1996. Fate of methyl bromide in fumigated soils. In: Fumigants. ACS Symposium Series 652. Washington, DC: American Chemical Society, 42-52. 10.1021/bk-1997-0652.ch005.
- +*Anger WK, Moody L, Burg J, et al. 1986. Neurobehavioral evaluation of soil and structural fumigators using methyl bromide and sulfuryl fluoride. Neurotoxicology 7:137-156.
- +*Anger WK, Setzer JV, Russo JM, et al. 1981. Neurobehavioral effects of methyl bromide inhalation exposures. Scand J Work Environ Health 7(Suppl 4):40-47.
- *ARB. 1988. Inhalation uptake of xenobiotic vapors by people. Biological Effects Research Section. California Air Resources Board: PB202726/AS. https://www.arb.ca.gov/research/apr/past/a5-155-33.pdf. June 19, 2017.
- *Atkinson R. 1989. Kinetics and mechanisms of the gas-phase reactions of the hydroxyl radical with organic compounds. Journal of Physical and Chemical Reference Data. American Chemical Society, American Institute of Physics. National Institute of Standards and Technology. Monograph No. 1. http://www.nist.gov/data/PDFfiles/jpcrdM1.pdf. April 19, 2016.
- *ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicological profiles; Notice. Agency for Toxic Substances and Disease Registry. Fed Regist 54(174):37618-37634.
- *ATSDR. 1992. Toxicological profile for bromomethane. Agency for Toxic Substances and Disease Registry. http://www.atsdr.cdc.gov/ToxProfiles/tp27.pdf. May 26, 2015.
- *ATSDR. 2017. Bromomethane. Full SPL data. Substance priority list (SPL) resource page. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention. http://www.atsdr.cdc.gov/SPL/resources/index.html. October 6, 2017.
- *Baker JM, Reeves CE, Nightingale PD, et al. 1999. Biological production of methyl bromide in the coastal waters of the North Sea and open ocean of the northeast Atlantic. Mar Chem 64:267-285.
- *Baker LW, Fitzell DL, Seiber JN, et al. 1996. Ambient air concentrations of pesticides in California. Environ Sci Technol 30:1365-1368.
- *Balagopal K, Muthusamy K, Alexander M, et al. 2011. Methyl bromide poisoning presenting as acute ataxia. Neurol India 59(5):768-769. 10.4103/0028-3886.86561.
- *Bamgbose JT, Bamgbose O. 2008. Effect of methyl bromide on the β-93 sulfhydryl groups of human and mouse hemoglobin. Journal of Chemical Society of Nigeria 33(1):47-55.
- *Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. Regul Toxicol Pharmacol 8(4):471-486.
- *Barry KH, Koutros S, Lubin JH, et al. 2012. Methyl bromide exposure and cancer risk in the Agricultural Health Study. Cancer Causes Control 23(6):807-818. 10.1007/s10552-012-9949-2.

- *Baur X, Budnik LT, Zhao ZH, et al. 2015. Health risks in international container and bulk cargo transport due to volatile toxic compounds. J Occup Med Toxicol 10:19. 10.1186/s12995-015-0059-4.
- +*Behrens RH, Dukes DC. 1986. Fatal methyl bromide poisoning. Br J Ind Med 43:561-562.
- *Berg WW, Heidt LE, Pollock W, et al. 1984. Brominated organic species in the arctic atmosphere. Geophys Res Lett 11:429-432.
- *Berger GS, ed. 1994. Epidemiology of endometriosis. In: Endometriosis: Modern surgical management of endometriosis. New York, NY: Springer-Verlag, 3-7.
- *Bishop C. 1992. A case of methyl bromide poisoning. Occup Med (Oxf) 42(2):107-109.
- *Bond JA, Dutcher JS, Medinsky MA, et al. 1985. Disposition of [14C]methyl bromide in rats after inhalation. Toxicol Appl Pharmacol 78:259-267.
- +*Boorman GA, Hong HL, Jameson CW, et al. 1986. Regression of methyl bromide induced forestomach lesions in the rat. Toxicol Appl Pharmacol 86:131-139.
- +*Breslin WJ, Zublotny CL, Bradley GJ, et al. 1990. Methyl bromide inhalation teratology study in New Zealand white rabbits with cover letter and attachment (declassified). Dow Chemical Company. Submitted to the U.S. Environmental Protection Agency under TSCA Section 8E. OTS0522340-3.
- *Brodzinsky R, Singh HB. 1983. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA600383027. https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=2000TMEP.txt. October 13, 2016.
- *Brown BD, Rolston DE. 1980. Transport and transformation of methyl bromide in soils. Soil Sci 130:68-75.
- *Bulathsinghala AT, Shaw IC. 2014. The toxic chemistry of methyl bromide. Hum Exp Toxicol 33(1):81-91. 10.1177/0960327113493299.
- *Burgess JL. 2004. Fumigants. Methy bromide. Chapter 238. In: Dart RC, Caravati EM, McGuigan MA, et al., eds. Medical toxicology, 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins, 1510-1511.
- +*Butler EC, Perry KM, Williams JR. 1945. Methyl bromide burns. Br J Ind Med 30:30:31.
- *Butler JH, Rodriguez JM. 1996. Methyl bromide in the atmosphere. In: Bell CH, Price N, Chakrabarti B, eds. The methyl bromide issue. West Sussex, England: John Wiley & Sons, 27-90.
- *Cal EPA. 1998. Determination of methyl bromide desorbed from charcoal tubes. Appendix Q. Chemical analytical method. Methyl bromide-sorbent tubes. California Department of Pesticide Regulation. www.cdpr.ca.gov/docs/specproj/lompoc/99append/append_q.pdf. May 27, 2015.
- *Cal EPA. 2008. Summary of ambient air monitoring for methyl bromide and 1,3-dichloropropene in Ventura County in 2005 and 2006. California Environmental Protection Agency, Department of Pesticide Regulation.

- *Cal EPA. 2011. Summary of pesticide use report data 2010. Indexed by chemical. California Department of Pesticide Regulation. http://www.cdpr.ca.gov/docs/pur/pur10rep/chmrpt10.pdf. May 27, 2015.
- *Cal EPA. 2014. Methyl bromide air monitoring results for 2013. California Environmental Protection Agency, Department of Pesticide Regulation.
- *Cal EPA. 2015. Methyl bromide, 1,3-dichloropropene, and chloropicrin air monitoring results for 2010-2014. California Environmental Protection Agency, Department of Pesticide Regulation.
- *Callahan MA, Slimak MW, Gabel NW, et al. 1979. Water-related environmental fate of 129 priority pollutants. Vol. I. Introduction and technical background, metals and inorganics, pesticides and PCBs. Washington, DC: U.S. Environmental Protection Agency. EPA440479029a. PB80204373.
- *Calvert GM, Mueller CA, Fajen JM, et al. 1998a. Health effects associated with sulfuryl fluoride and methyl bromide exposure among structural fumigation workers. Am J Public Health 88(12):1774-1780.
- *Calvert GM, Talaska G, Mueller CA, et al. 1998b. Genotoxicity in workers exposed to methyl bromide. Mutat Res Genet Toxicol Environ Mutagen 417(2):115-128.
- *Castro CE, Belser NO. 1981. Photohydrolysis of methyl bromide and chloropicrin. J Agric Food Chem 29:1005-1008.
- *CDC. 2018. Fourth national report on human exposure to environmental chemicals. Updated tables, March 2018, Volume One. Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.
- https://www.cdc.gov/exposurereport/pfd/FourthReport_UpdatedTables_Volume1_Mar2018.pdf. April 19, 2018.
- +*Chavez CT, Hepler RS, Straatsma BR. 1985. Methyl bromide optic atrophy. Am J Ophthalmol 99:715-719.
- +*Clarke CA, Roworth CG, Holling HE. 1945. Methyl bromide poisoning: An account of four recent cases met with in one of H.M. ships. Br J Ind Med 2:17-23.
- *Clewell HJ, Andersen ME. 1985. Risk assessment extrapolations and physiological modeling. Toxicol Ind Health 1(4):111-131.
- *Cockburn M, Mills P, Zhang X, et al. 2011. Prostate cancer and ambient pesticide exposure in agriculturally intensive areas in California. Am J Epidemiol 173(11):1280-1288. 10.1093/aje/kwr003.
- *Cole RH, Frederick RE, Healy RP, et al. 1984. Preliminary findings of the priority pollutant monitoring project of the nationwide urban runoff program. J Water Pollut Control Fed 56:898-908.
- *Coleman WE, Lingg RD, Metten RG, et al. 1976. The occurrence of volatile organics in five drinking water supplies using gas chromatography/mass spectrometry. In: Keith LH, ed. Identification and analysis of organic pollutants in water. Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 305-327.

- *Connell TL, Joye SB, Miller LG, et al. 1997. Bacterial oxidation of methyl bromide in Mono Lake, California. Environ Sci Technol 31(5):1489-1495. 10.1021/es960732k. http://dx.doi.org/10.1021/es960732k.
- *Costa LG, Aschner M, Vitalone A, et al. 2004. Developmental neuropathology of environmental agents. Ann Rev Pharmacol Toxicol 44:87-110. 10.1146/annurev.pharmtox.44.101802.121424.
- *Daft JL. 1987. Determining multifumigants in whole grains and legumes, milled and low-fat products, spices, citrus fruit, and beverages. J Assoc Off Anal Chem 70:734-739.
- *Daft JL. 1988. Rapid determination of fumigant and industrial chemical residues in food. J Assoc Off Anal Chem 71:748-760.
- *Daft JL. 1989. Determination of fumigants and related chemicals in fatty and nonfatty foods. J Agric Food Chem 37:560-564.
- +*Danse LH, van Velsen FL, Van Der Heljden CA. 1984. Methylbromide: Carcinogenic effects in the rat forestomach. Toxicol Appl Pharmacol 72:262-271.
- *Davenport CJ, Ali SF, Miller FJ, et al. 1992. Effects of methyl bromide on regional brain glutathione, glutathione-S-transferases, monoamines, and amino acids in F344 rats. Toxicol Appl Pharmacol 112:120-127.
- *Davis DD, Machado G, Conaway B, et al. 1976. A temperature dependent kinetics study of the reaction of OH with CH3Cl, CH2Cl2, CHCl, and CH3Br. J Chem Phys 65:1268-1274.
- *Deschamps FJ, Turpin JC. 1996. Methyl bromide intoxication during grain store fumigation. Occup Med (Lond) 46(1):89-90.
- *de Souza A, Narvencar KP, Sindhoora KV. 2013. The neurological effects of methyl bromide intoxication. J Neurol Sci 335(1-2):36-41. 10.1016/j.jns.2013.09.022.
- *de Vreede JAF, den Boeft J, Van Hemmen JJ. 1998. Exposure to methyl bromide during greenhouse fumigation on Crete, Greece. Arch Environ Contam Toxicol 35:539-547.
- *DeVries JW, Broge JM, Schroeder JP, et al. 1985. Headspace gas chromatographic method for determination of methyl bromide in food ingredients. J Assoc Off Anal Chem 68:1112-1116.
- *Djalali-Behzad G, Hussain S, Osterman-Golkar S, et al. 1981. Estimation of genetic risks of alkylating agents. VI. Exposure of mice and bacteria to methyl bromide. Mutat Res 84:1-9.
- *DOE. 2012. Protective action criteria (PAC): Chemicals with AEGLs, ERPGs, & TEELs. Definition of PACs (AEGLs, ERPGs or TEELs). Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: Rev. 27 for Chemicals of Concern March 2012. Oak Ridge, TN: U.S. Department of Energy. http://energy.gov/ehss/protective-action-criteria-pac-aegls-erpgs-teels-rev-27-chemicals-concern-march-2012. March 24, 2015.
- *DOE. 2016. Table 3: PACs by CASRN (pdf). PAC Rev 27 Tables PAC data and chemical properties presented in pdf and excel tables. Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: Rev. 27 for Chemicals of Concern March 2012. Oak Ridge, TN: U.S. Department of Energy. http://www.atlintl.com/DOE/teels/teel/Revision_28A_Table3.pdf. March 23, 2016.

- *EFSA. 2015. The 2013 European Union report on pesticide residues in food. European Food Safety Authority 13(3):4038. 10.2903/j.efsa.2015.4038.
- http://www.efsa.europa.eu/sites/default/files/scientific_output/files/main_documents/4038.pdf. February 24, 2015.
- *Ehrenberg L, Osterman-Golkar S, Singh D, et al. 1974. On the reaction kinetics and mutagenic activity of methylating and p-halogenoethylating gasoline additives. Radiation Botany 15:185-194.
- *Ek CJ, Dziegielewska KM, Habgood MD, et al. 2012. Barriers in the developing brain and neurotoxicology. Neurotoxicology 33(3):586-604. 10.1016/j.neuro.2011.12.009.
- +*Enloe PV, Salamon CM, Becker SV. 1986. Two-generation reproduction study via inhalation in albino rats using methyl bromide. American Biogenics Corp. Submitted to the U.S. Environmental Protection Agency under TSCA Section 8d. OTS0515364. EPA Doc. ID 86-870000926.
- *EPA. 1975. Preliminary assessment of suspected carcinogens in drinking water: Report to Congress. Washington, DC: U.S. Environmental Protection Agency.
- *EPA. 1982. Methods for organic chemical analysis of municipal and industrial wastewater: Purgeables method 624. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA600482057.
- *EPA. 1986. Health and environmental effects profile for methyl bromide. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. ECAO-CIN-P182. EPA600X86171.
- *EPA. 1987. Drinking water health advisory for bromomethane. Cincinnati, OH: U.S. Environmental Protection Agency. ECAOCINW003.
- +*EPA. 1988a. Data evaluation record. Methyl bromide subchronic inhalation study in mice. U.S. Environmental Protection Agency. EPA68D80056. https://www3.epa.gov/pesticides/chem_search/cleared_reviews/csr_PC-053201_15-Nov-88_026.pdf October 7, 2016.
- *EPA. 1988b. Recommendations for and documentations of biological values for use in risk assessment. Cincinnati, OH: U.S. Environmental Protection Agency.
- *EPA. 1988c. Volatile halogenated organic compounds in water by purge and trap gas chromatography method 502.1. In: Methods for the determination of organic compounds in drinking water. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA600488039.
- *EPA. 1988d. Volatile organic compounds in water by purge and trap capillary column gas chromatography with protoionization and electrolytic conductivity detectors in series method 502.2. In: Methods for the determination of organic compounds in drinking water. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA600488039.
- *EPA. 1990. Interim methods for development of inhalation reference concentrations. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Office of Research and Development. EPA600890066A. PB90238890.

- *EPA. 1992. Pesticides in ground water database. A compilation of monitoring studies: 1971-1991. National Summary. U.S. Environmental Protection Agency, Prevention Pesticides and Toxic Substances. EPA7341292001.
- *EPA. 1993. Memorandum. ID No. 053201. Methyl bromide. Review of inhalation acute neurotoxicity study in rat (81-8SS). Submitted to support reregistration of methyl bromide. U.S. Environmental Protection Agency.
- *EPA. 1994a. Method 8240b. Volatile organic compounds by gas chromatography/mass spectrometry (GC/MS). In: Test methods for evaluating solid waste. Volume 1B: Laboratory manual physical/chemical methods. Washington, DC: U.S. Environmental Protection Agency.
- *EPA. 1994b. Methods for derivation of inhalation reference concentrations and applications of inhalation dosimetry. Washington, DC: U.S. Environmental Protection Agency. EPA600890066F.
- *EPA. 1995. Method 524.2. Measurement of purgeable organic compounds in water by capillary column gas chromatography/mass spectrometry. Cincinnati, OH: U.S. Environmental Protection Agency. https://www.epa.gov/sites/production/files/2015-06/documents/epa-524.2.pdf. November 2, 2016.
- *EPA. 1996a. Method 5021. Volatile organic compounds in soils and other solid matrices using equilibrium headspace analysis. Test methods for evaluating solid waste, physical/chemical methods. SW-846. U.S. Environmental Protection Agency.

http://www.epa.gov/solidwaste/hazard/testmethods/sw846/pdfs/5021.pdf. May 28, 2015.

- *EPA. 1996b. Method 5032. Volatile organic compounds by vacuum distillation. Test methods for evaluating solid waste, physical/chemical methods. SW-846. U.S. Environmental Protection Agency. http://www.epa.gov/osw/hazard/testmethods/sw846/pdfs/5032.pdf. May 28, 2015.
- *EPA. 1996c. Method 5035. Closed-system purge-and-trap and extraction for volatile organics in soil and waste samples. Test methods for evaluating solid waste, physical/chemical methods. SW-846. U.S. Environmental Protection Agency.

http://www.epa.gov/solidwaste/hazard/testmethods/sw846/pdfs/5035.pdf. May 28, 2015.

*EPA. 1996d. Method 5041a. Analysis for desorption of sorbent cartridges from volatile organic sampling train (VOST). Test methods for evaluating solid waste, physical/chemical methods. SW-846. U.S. Environmental Protection Agency.

http://www.epa.gov/solidwaste/hazard/testmethods/sw846/pdfs/5041a.pdf. May 28, 2015.

*EPA. 1996e. Method 8260B. Volatile organic compounds by gas chromatography/mass spectrometry (GC/MS). Test methods for evaluating solid waste, physical/chemical methods. SW-846. U.S. Environmental Protection Agency.

http://www.epa.gov/solidwaste/hazard/testmethods/sw846/pdfs/8260b.pdf. May 28, 2015.

*EPA. 1997. Special report on environmental endocrine disruption: An effects assessment and analysis. Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. EPA630R96012.

- *EPA. 1999a. Compendium of methods for the determination of toxic organic compounds in ambient air. Compendium method TO-15. Determination of volatile organic compounds (VOCs) in air collected in specially-prepared canisters and analyzed by gas chromatography/mass spectrometry (GC/MS). Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA625R96010b.
- *EPA. 1999b. Compendium of methods for the determination of toxic organic compounds in ambient air. Compendium method TO-17. Determination of volatile organic compounds in ambient air using active sampling onto sorbent tubes. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA625R96919b.
- *EPA. 1999c. Memorandum. Methyl bromide-combine chronic/oncogenicity feeding-rat (83.5), MRID 4462501. Barcode 242525; S/ 536414; Chem. No. 053201; Rereg. Case # 0335. Toxicology chemical no. 555. U.S. Environmental Protection Agency.
- *EPA. 2001a. Data evaluation record. "Up and down" acute/short-term inhalation toxicity-dog; nonguideline (range-finding study submitted under 91-3). MRID 43386801. In: Memorandum. Methyl bromide-review of subchronic (4-week) inhalation toxicity and acute/short-term inhalation toxicity studies in dogs. U.S. Environmental Protection Agency.
- *EPA. 2001b. Data evaluation record. Subchronic (4-week) inhalation toxicity-dog; OPPTS 870.3465 [82-4] (submitted under [81-3]. MRID 43386802. In: Memorandum. Methyl bromide-review of subchronic (4-week) inhalation toxicity and acute/short-term inhalation toxicity studies in dogs. U.S. Environmental Protection Agency.
- *EPA. 2002. Memorandum. Methyl bromide review of subchronic (6-week) inhalation toxicity study in dogs. Data evaluation records for MRID 45722801. U.S. Environmental Protection Agency.
- *EPA. 2005. Toxic chemical release inventory reporting forms and instructions: Revised 2004 version. Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986). U.S. Environmental Protection Agency, Office of Environmental Information. EPA260B05001.
- *EPA. 2007. Methyl bromide: Phase 5 Health Effects Division (HED). Human health risk assessment for soil, greenhouse, and residential/structural uses. PC Code 053201. Human health risk assessment. Methyl bromide. U.S. Environmental Protection Agency, Office of Pesticide Programs. Environmental Information.
- *EPA. 2008. RED fact sheet for methyl bromide. U.S. Environmental Protection Agency. http://www.epa.gov/oppsrrd1/reregistration/REDs/factsheets/methylbromide-fs.pdf. May 28, 2015.
- *EPA. 2009. National primary drinking water regulations. Washington, DC: U.S. Environmental Protection Agency, Office of Ground Water and Drinking Water. EPA816F090004. http://water.epa.gov/drink/contaminants/upload/mcl-2.pdf. March 4, 2015.
- *EPA. 2011. Data evaluation record. 28-Day inhalation immunotoxicity study-rat. OPPTS 870-7800. U.S. Environmental Protection Agency.
- *EPA. 2012a. Benchmark dose technical guidance. Washington, DC: U.S. Environmental Protection Agency. EPA100R12/001.

- *EPA. 2012b. 2012 Edition of the drinking water standards and health advisories. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA822S12001. http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf. March 4, 2015.
- *EPA. 2014a. The phaseout of methyl bromide. Ozone layer protection-regulatory programs. U.S. Environmental Protection Agency. http://www.epa.gov/ozone/mbr/index.html. May 27, 2015.
- *EPA. 2014b. Title 42 The public health and welfare. Chapter 85 Air pollution prevention and control. Subchapter I programs and activities. Part A Air quality and emission limitations. Hazardous air pollutants. U.S. Environmental Protection Agency. United States Code 42 USC 7412. https://www.gpo.gov/fdsys/pkg/USCODE-2014-title42/pdf/USCODE-2014-title42-chap85-subchapI-partA-sec7412.pdf. April 21, 2015.
- *EPA. 2015a. Protection of stratospheric ozone: The 2016 critical use exemption from the phaseout of methyl bromide. Fed Regist 80(199):61985-61993.
- *EPA. 2015b. Air quality system (AQS). Data files. Annual summary data. U.S. Environmental Protection Agency. http://aqsdr1.epa.gov/aqsweb/aqstmp/airdata/download_files.html. February 4, 2016.
- *EPA. 2015c. Air emissions inventory home. National Emissions Inventory (NEI). U.S. Environmental Protection Agency. https://www.epa.gov/air-emissions-inventories/national-emissions-inventory. February 1, 2016.
- *EPA. 2015d. Subchapter D Water programs. Designation of hazardous substances. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 116.4. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol22/pdf/CFR-2015-title40-vol22-sec116-4.pdf. April 21, 2016.
- *EPA. 2015e. Subchapter J Superfund, emergency planning, and community right-to-know programs. Designation of hazardous substances. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 302.4. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol28/pdf/CFR-2015-title40-vol28-part302.pdf. April 21, 2016.
- *EPA. 2015f. Subpart A General provisions. Determination of reportable quantities. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 117.3. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol22/pdf/CFR-2015-title40-vol22-sec117-3.pdf. April 21, 2015.
- *EPA. 2015g. Subpart B Manufacturers reporting preliminary assessment information. Chemical lists and reporting periods. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 712.30. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol31/pdf/CFR-2015-title40-vol31-sec712-30.pdf. April 21, 2016.
- *EPA. 2015h. Subpart C Specific tolerances. Inorganic bromide residues resulting from fumigation with methyl bromide; tolerances for residues. Code of Federal Regulations 40 CFR 180.123. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol24/pdf/CFR-2015-title40-vol24-sec180-123.pdf. October 4, 2016.
- *EPA. 2015i. Subpart C Specific tolerances. Methyl bromide; tolerances for residues. Code of Federal Regulations 40 CFR 180.124. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol24/pdf/CFR-2015-title40-vol24-sec180-124.pdf. October 4, 2016.

- *EPA. 2015j. Subpart D Specific toxic chemical listings. Chemicals and chemical categories to which this part applies. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 372.65. https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol28/pdf/CFR-2015-title40-vol28-sec372-65.pdf. April 21, 2016.
- *EPA. 2016a. Exemptions for methyl bromide. Phaseout of ozone-depleting substances. U.S. Environmental Protection Agency. http://www.epa.gov/ods-phaseout/exemptions-methyl-bromide. January 28, 2016.
- *EPA. 2016b. Fact Sheet Protection of stratospheric ozone: The 2016 critical use exemption from the phaseout of methyl bromide. U.S. Environmental Protection Agency. http://www3.epa.gov/oxone/mbr/factsheet2016html. January 29, 2016.
- *EPA. 2016c. Ozone lay protection Regulatory programs. Methyl bromide. U.S. Environmental Protection Agency. http://www3.epa.gov/ozone/mbr/otherreginfo.html. January 29, 2016.
- *EPA. 2016d. STORET Data warehouse access. Bromomethane. CAS Number 74-83-9. U.S. Environmental Protection Agency. http://www3.epa.gov/storet/dbtop.html. February 4, 2016.
- *EPA. 2016e. National Recommended Water Quality Criteria Human Health Criteria Table. Washington, DC: U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. https://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table. March 23, 2016.
- +*Eustis SL, Haber SB, Drew RT, et al. 1988. Toxicology and pathology of methyl bromide in F344 rats and B6C3F1 mice following repeated inhalation exposure. Fundam Appl Toxicol 11:594-610.
- *FDA. 2013. Everything added to food in the United States (EAFUS). Washington, DC: U.S. Food and Drug Administration. http://www.accessdata.fda.gov/scripts/fcn/fcnnavigation.cfm?rpt=eafuslisting. January 8, 2014.
- *Fennimore SA, Ajwa HA. 2011. Totally impermeable film retains fumigants, allowing lower application rates in strawberry. Calif Agric 65(4):211-215. 10.3733/ca.E.v065n04p211.
- *Fomon SJ. 1966. Body composition of the infant: Part 1: The male reference infant. In: Faulkner F, ed. Human development. Philadelphia, PA: WB Saunders, 239-246.
- *Fomon SJ, Haschke F, Ziegler EE, et al. 1982. Body composition of reference children from birth to age 10 years. Am J Clin Nutr 35(Suppl 5):1169-1175.
- *Freeman J. 2015. Totally impermeable film- A new plastic mulch option for 2016 fumigation. University of Florida IFAS extension. http://nwdistrict.ifas.ufl.edu/phag/2015/11/13/totally-impermeable-film-a-new-option-for-2016-fumigation. February 22, 2016.
- *Fuhr I, Bransford AV, Silver SD. 1948. Sorption of fumigant vapors by soil. Science 107:274-275.
- *Gan J, Yates SR. 1996. Degradation and phase partition of methyl iodide in soil. American Chemical Society. J Agric Food Chem 44(12):4001-4008. 10.1021/jf960413c. http://dx.doi.org/10.1021/jf960413c.

- *Gan J, Yates SR, Anderson MA, et al. 1994. Effect of soil properties on degradation and sorption of methyl bromide in soil. Chemosphere 29(12):2685-2700. 10.1016/0045-6535(94)90067-1.
- *Gan J, Yates SR, Ernst FF, et al. 2000. Degradation and volatilization of the fumigant chloropicrin after soil treatment. J Environ Qual 29(5):1391-1397. 10.2134/jeq2000.00472425002900050004x.
- *Gan J, Yates SR, Ohr HD, et al. 1997. Volatilization and distribution of methyl iodide and methyl bromide after subsoil application. J Environ Qual 26(4):1107-1115. 10.2134/jeq1997.00472425002600040023x.
- *Gan J, Yates SR, Papiernik S, et al. 1998. Application of organic amendments to reduce volatile pesticide emissions from soil. Environ Sci Technol 32(20):3094-3098.
- *Gan J, Yates SR, Wang D, et al. 1996. Effect of soil factors on methyl bromide volatilization after soil application. Environ Sci Technol 30(5):1629-1636.
- *Gansewendt B, Foest U, Xu D, et al. 1991. Formation of DNA adducts in F-344 rats after oral administration or inhalation of [¹⁴C] methyl bromide. Food Chem Toxicol 29(8):557-563.
- *Gargas ML, Andersen ME. 1982. Metabolism of inhaled brominated hydrocarbons: Validation of gas uptake results by determination of a stable metabolite. Toxicol Appl Pharmacol 66:55-68.
- *Gemmill A, Gunier RB, Bradman A, et al. 2013. Residential proximity to methyl bromide use and birth outcomes in an agricultural population in California. Environ Health Perspect 121(6):737-743. 10.1289/ehp.1205682.
- *Geyer HL, Schaumburg HH, Herskovitz S. 2005. Methyl bromide intoxication causes reversible symmetric brainstem and cerebellar MRI lesions. Neurology 64(7):1279-1281. 10.1212/01.wnl.0000156835.12492.30.
- *Giwercman A, Carlsen E, Keiding N, et al. 1993. Evidence for increasing incidence of abnormalities of the human testis: A review. Environ Health Perspect 101(Supp 2):65-71.
- *Goodwin KD, Schaefer JK, Oremland RS. 1998. Bacterial oxidation of dibromomethane and methyl bromide in natural waters and enrichment cultures. Appl Environ Microbiol 64(12):4629-4636.
- *Goring CA, Laskowski DA, Hamaker JW, et al. 1975. Principles of pesticide degradation in soil. In: Haque R, Freed VH, eds. Environmental dynamics of pesticides. New York, NY: Plenum Press, 135-172.
- +*Gotoh K, Nishizawa T, Yamagucki T, et al. 1994. Two-year toxicological and carcinogenesis studies of methyl bromide in F344 rats and BDF1 mice Inhalation studies. In: Proceedings of the ICMR Seminar, 2; Environmental and occupational chemical hazards 2nd Asia-Pacific symposium on environmental and occupational health, Environmental and occupational chemical hazards, 185-192.
- +*Greenberg JO. 1971. The neurological effects of methyl bromide poisoning. Ind Med 40:27-29.
- *Guzelian PS, Henry CJ, Olin SS. 1992. Similarities and differences between children and adults: Implications for risk assessment. Washington, DC: International Life Sciences and Press Institute Press.

- +*Haber SB. 1987. A chronic inhalation study of methyl bromide toxicity in B6C3F1 mice. Research Triangle Park, NC: National Toxicology Program. http://www.osti.gov/scitech/servlets/purl/791305. October 7, 2016.
- +*Hardin BD, Bond GP, Sikov MR, et al. 1981. Testing of selected workplace chemicals for teratogenic potential. Scand J Work Environ Health 7:66-75.
- *Harsch DE, Rasmussen RA. 1977. Identification of methyl bromide in urban air. Anal Lett 10:1041-1047.
- +*Hastings L, Miller ML, Minnema DJ, et al. 1991. Effects of methyl bromide on the rat olfactory system. Chem Senses 16(1):43-56.
- *Hatch GG, Mamay PD, Ayer ML, et al. 1983. Chemical enhancement of viral transformation in Syrian hamster embryo cells by gaseous and volatile chlorinated methanes and ethanes. Cancer Res 43:1945-1950.
- +Hauw JJ, Escourolle R, Baulac M, et al. 1986. Postmortem studies on posthypoxic and post-methyl bromide intoxication: Case reports. Adv Neurol 43:201-214.
- *Herzstein J, Cullen MR. 1990. Methyl bromide intoxication in four field-workers during removal of soil fumigation sheets. Am J Ind Med 17(3):321-326.
- +*Hezemans-Boer M, Toonstra J, Meulenbelt J, et al. 1988. Skin lesions due to exposure to methyl bromide. Arch Dermatol 124:917-921.
- +*Hine CH. 1969. Methylbromide poisoning. J Occup Med 11:1-10.
- *Hines ME, Crill PM, Varner RK, et al. 1998. Rapid consumption of low concentrations by methyl bromide by soil bacteria. Appl Environ Microbiol 64(5):1864-1870.
- *Hoel DG, Davis DL, Miller AB, et al. 1992. Trends in cancer mortality in 15 industrialized countries, 1969-1986. J Natl Cancer Inst 84(5):313-320.
- *Holbrook EH, Iwema CL, Peluso CE, et al. 2014. The regeneration of P2 olfactory sensory neurons is selectively impaired following methyl bromide lesion. Chem Senses 39(7):601-616. 10.1093/chemse/bju033.
- +*Holling HE, Clarke CA. 1944. Methyl bromide intoxication. J Royal Navy Med Serv 30:218-224.
- +*Honma T. 1987. Alteration of catecholamine metabolism in rat brain produced by inhalation exposure to methyl bromide. Jpn J Ind Health 29:218-219.
- +*Honma T, Miyagawa M, Sato M, et al. 1985. Neurotoxicity and metabolism of methyl bromide in rats. Toxicol Appl Pharmacol 81:183-191.
- +*Honma T, Miyagawa M, Sato M. 1987. Methyl bromide alters catecholamine and metabolite concentrations in rat brain. Neurotoxicol Teratol 9:369-375.
- *Honma T, Miyagawa M, Sato M. 1991. Inhibition of tyrosine hydroxylase activity by methyl bromide exposure. Neurotoxicol Teratol 13:1-4.

- +*Honma T, Sudo A, Miyagawa M, et al. 1982. Significant changes in monoamines in rat brain induced by exposure to methyl bromide. Neurobehav Toxicol Teratol 4:521-524.
- *Hori H, Hyakudo T, Oyabu T, et al. 2002. Effects of inhaled methyl bromide gas on the metabolic system and kinetics of bromine ion in rats. J UOEH 24(2):151-160.
- *Horiuchi N, Oguchi S, Nagami H, et al. 2008. Pesticide-related dermatitis in Saku district, Japan, 1975-2000. Int J Occup Environ Health 14(1):25-34. 10.1179/oeh.2008.14.1.25.
- *HSDB. 2014. Methyl bromide. Hazardous Substances Data Bank, National Library of Medicine. http://toxnet.nlm.nih.gov. April 14, 2016.
- *Huard JM, Youngentob SL, Goldstein BJ, et al. 1998. Adult olfactory epithelium contains multipotent progenitors that give rise to neurons and non-neural cells. J Comp Neurol 400(4):469-486.
- *Hunter G. 1955. Micro-determination of bromide in body fluids. Biochem J 60:261-264.
- +*Hurtt ME, Working PK. 1988. Evaluation of spermatogenesis and sperm quality in the rat following acute inhalation exposure to methyl bromide. Fundam Appl Toxicol 10:490-498.
- +*Hurtt ME, Morgan KT, Working PK. 1987. Histopathology of acute toxic responses in selected tissues from rats exposed by inhalation to methyl bromide. Fundam Appl Toxicol 9:352-365.
- +*Hurtt ME, Thomas DA, Working PK, et al. 1988. Degeneration and regeneration of the olfactory epithelium following inhalation exposure to methyl bromide: Pathology, cell kinetics, and olfactory function. Toxicol Appl Pharmacol 94:311-328.
- *Hustinx WN, van de Laar RT, van Huffelen AC, et al. 1993. Systemic effects of inhalational methyl bromide poisoning: A study of nine cases occupationally exposed due to inadvertent spread during fumigation. Br J Ind Med 50(2):155-159.
- *Hyakudo T, Hori H, Tanaka I, et al. 2001. Inhibition of creatine kinase activity in rat brain by methyl bromide gas. Inhal Toxicol 13:659-669.
- *IARC. 1986. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Vol. 41. Some halogenated hydrocarbons and pesticide exposures. Lyon, France: World Health Organization, 187-212.
- *IARC. 2016. Agents classified by the IARC monographs. Volumes 1–115. Lyon, France: International Agency for Research on Cancer. http://monographs.iarc.fr/ENG/Classification/List_of_Classifications_Vol1-115.pdf. March 23, 2016.
- *Ikawa N, Araki A, Nozaki K, et al. 1986. Micronucleus test of methyl bromide by the inhalation method [Abstract]. Mutat Res 164:269.
- +*Ikeda T, Kishi R, Yamamura K, et al. 1980. Behavioural effects in rats following repeated exposure to methyl bromide. Toxicol Lett 6:293-299.
- *IRIS. 1989. Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. September 12, 1989.

- *IRIS. 2002. Bromomethane (CASRN 74-83-9). Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. http://www.epa.gov/iris/subst/0015.htm. May 26, 2015.
- +*Irish DD, Adams EM, Spencer HC, et al. 1940. The response attending exposure of laboratory animals to vapors of methyl bromide. J Ind Hyg Toxicol 22:218-230.
- *Iwasaki K. 1988a. Individual differences in the formation of hemoglobin adducts following exposure to methyl bromide. Ind Health 26(4):257-262.
- *Iwasaki K. 1988b. Determination of S-methylcysteine in mouse hemoglobin following exposure to methyl bromide. Ind Health 26:187-190.
- *Jaskot RH, Grose EC, Most BM, et al. 1988. The distribution and toxicological effects of inhaled methyl bromide in the rat. J Am Coll Toxicol 7:631-642.
- +*Johnstone RT. 1945. Methyl bromide intoxication of a large group of workers. Ind Med 14:495-497.
- *Jury WA, Spencer F, Farmer WJ, et al. 1984. Behavior assessment model for trace organics in soil: III. Application of screening model. J Environ Qual 13:573-579.
- +*Kaneda M, Hojo H, Teramoto S, et al. 1998. Oral teratogenicity studies of methyl bromide in rats and rabbits. Food Chem Toxicol 36(5):421-427.
- +*Kantarjian AD, Shaheen AS. 1963. Methyl bromide poisoning with nervous system manifestations resembling polyneuropathy. Neurology 13:1054-1058.
- +*Kato N, Morinobu S, Ishizu S. 1986. Subacute inhalation experiment for methyl bromide in rats. Ind Health 24(2):87-103.
- *Katz AJ. 1987. Inhalation of methyl bromide gas induces mitotic recombination in somatic cells of *Drosophila melanogaster*. Mutat Res 192:131-135.
- *Kearns GL, Abdel-Rahman SM, Alander SW, et al. 2003. Developmental pharmacology-drug disposition, action, and therapy in infants and children. N Engl J Med 349(12):1157-1167. 10.1056/NEJMra035092.
- +*Kishi R, Ishizu I, Ito I, et al. 1988. Health research on methyl bromide manufacturing workers. Part 1: Symptoms of long-term exposure. In: Occupational health in the chemical industry: Papers presented at the XXII ICOH Congress, Sydney, Australia, 27 September 2 October 1987. Copenhagen, Denmark: World Health Organization, International Commission on Occupational, Health and Medichem, 120-134.
- *Kloth S, Baur X, Goen T, et al. 2014. Accidental exposure to gas emissions from transit goods treated for pest control. Environ Health 14:110. 10.1186/1476-069x-13-110.
- *Kool HJ, van Kriejl CF, Zoeteman BC, et al. 1982. Toxicology assessment of organic compounds in drinking water. CRC Crit Rev Environ Control 12:307, 347.
- *Komori M, Nishio K, Kitada M, et al. 1990. Fetus-specific expression of a form of cytochrome P-450 in human livers. Biochemistry 29(18):4430-4433.

- *Kopfler FC, Melton RG, Mullane JL, et al. 1977. Human exposure to water pollutants. In: Suffet IH, ed. Advances in environmental science and technology. Vol. 8. Fate of pollutants in the air and water environment, Part 2. New York, NY: John Wiley and Sons, 419-433.
- *Kornbrust DJ, Bus JS. 1983. The role of glutathione and cytochrome P-450 in the metabolism of methyl chloride. Toxicol Appl Pharmacol 67:246-256.
- *Kramers PG, Voogd CE, Knaap AG, et al. 1985. Mutagenicity of methyl bromide in a series of short-term tests. Mutat Res 155:41-47.
- *Krill RM, Sonzogni WC. 1986. Chemical monitoring of Wisconsin's groundwater. Journal AWWA 78:70-75.
- *Krishnan K, Andersen ME. 1994. Physiologically based pharmacokinetic modeling in toxicology. In: Hayes AW, ed. Principles and methods of toxicology. 3rd ed. New York, NY: Raven Press, Ltd., 149-188.
- *Krishnan K, Anderson ME, Clewell HJ, et al. 1994. Physiologically based pharmacokinetic modeling of chemical mixtures. In: Yang RSH, ed. Toxicology of chemical mixtures. Case studies, mechanisms, and novel approaches. San Diego, CA: Academic Press, 399-437.
- *Kulkarni PA, Duncan MA, Watters MT, et al. 2015. Severe illness from methyl bromide exposure at a condominium resort--U.S. Virgin Islands, March 2015. MMWR Morb Mortal Wkly Rep 64(28):763-766.
- *Langard S, Rognum T, Flotterod O, et al. 1996. Fatal accident resulting from methyl bromide poisoning after fumigation of a neighbouring house; leakage through sewage pipes. J Appl Toxicol 16(5):445-448. 10.1002/(sici)1099-1263(199609)16:5<445::aid-jat370>3.0.co;2-a.
- *La Regina J, Bozzelli JW, Harkov R, et al. 1986. Volatile 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.
- *Lee S, McLaughlin R, Harnly M, et al. 2002. Community exposures to airborne agricultural pesticides in California: Ranking of inhalation risks. Environ Health Perspect 110(12):1175-1184.
- *Leeder JS, Kearns GL. 1997. Pharmacogenetics in pediatrics: Implications for practice. Pediatr Clin North Am 44(1):55-77.
- *LeFevre C, Ferrari P, Guenier JP, et al. 1989. Sampling and analysis of airborne methylbromide. Chromatographia 27:37-43.
- *Leikin JB, Paloucek FP. 2008. Methyl bromide. In: Poisoning and toxicology handbook, 4th ed. Boca Raton, FL: CRC Press, 821-822.
- *Leung H. 1993. Physiologically-based pharmacokinetic modelling. In: Ballantyne B, Marrs T, Turner P, eds. General and applied toxicology. Vol. 1. New York, NY: Stockton Press, 153-164.

- *Levins P, Adams J, Brenner P, et al. 1979. Sources of toxic pollutants found in influents to sewage treatment plants. VI. Integrated interpresentation. Washington, DC: U.S. Environmental Protection Agency, Water Quality Analysis Branch, Monitoring and Data Support Division. EPA440481008. PB81-219685.
- *Livingston AL. 1978. Forage plant estrogens. J Toxicol Environ Health 4(2-3):301-324.
- +*Longley EO, Jones AT. 1965. Methyl bromide poisoning in man. Ind Med Surg 34:499-502.
- *Lovelock JE. 1975. Natural halocarbons in the air and in the sea. Nature 256:193-194.
- *Lyman WJ, Reehl WF, Rosenblatt DH. 1982. Handbook of chemical property estimation methods: Environmental behavior of organic compounds. New York, NY: McGraw-Hill Book Company.
- *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.
- *Mabey WR, Smith JH, Podoll RT, et al. 1982. Aquatic fate process data for organic priority pollutants. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA440481014.
- *Magnusson R, Rittfeldt L, Astot C. 2015. Evaluation of sorbent materials for the sampling and analysis of phosphine, sulfuryl fluoride and methyl bromide in air. J Chromatogr A 1375:17-26. 10.1016/j.chroma.2014.11.077.
- *Majewski MS, McChesney MM, Woodrow JE, et al. 1995. Organic chemicals in the environment. Aerodynamic measurements of methyl bromide volatilization from tarped and nontarped fields. J Environ Qual 24:742-752.
- +*Marraccini JV, Thomas GE, Ongley JP, et al. 1983. Death and injury caused by methyl bromide, an insecticide fumigant. J Forensic Sci 28:601-607.
- *Mayr U, Butsch A, Schneider S. 1992. Validation of two *in vitro* test systems for estrogenic activities with zearalenone, phytoestrogens and cereal extracts. Toxicology 74(2-3):135-149.
- +*McGregor DB. 1981. Tier II mutagenic screening of 13 NIOSH priority compounds: Individual compound report methyl bromide. Cincinnati, OH: National Institute for Occupational Safety and Health. PB83130211.
- *Medinsky MA, Bond JA, Dutcher JS, et al. 1984. Disposition of [¹⁴C]methyl bromide in Fischer-344 rats after oral or intraperitoneal administration. Toxicology 32:187-196.
- *Medinsky MA, Dutcher JS, Bond JA, et al. 1985. Uptake and excretion of [¹⁴C]methyl bromide as influenced by exposure concentration. Toxicol Appl Pharmacol 78:215-225.
- +*Miller JW. 1943. Fatal methyl bromide poisoning. Arch Pathol 36:505-507.
- *Mills PK, Yang R. 2003. Prostate cancer risk in California farm workers. J Occup Environ Med 45(3):249-258.

- *Mills PK, Yang RC. 2007. Agricultural exposures and gastric cancer risk in Hispanic farm workers in California. Environ Res 104(2):282-289.
- *Morgan DP. 1982. Recognition and management of pesticide poisonings. 3rd ed. Washington, DC: U.S. Environmental Protection Agency, Office of Pesticide Programs, 68-76. EPA540980005.
- +Morgan KT, Thomas DA, St. Clair MB. 1989. Enzyme markers for studies of olfactory epithelial regeneration in rats exposed to methyl bromide [Abstract]. Toxicologist 9:37.
- *Moriya M, Ohta T, Watanabe K, et al. 1983. Further mutagenicity studies on pesticides in bacterial reversion assay systems. Mutat Res 116:185-216.
- *Morselli PL, Franco-Morselli R, Bossi L. 1980. Clinical pharmacokinetics in newborns and infants: Age-related differences and therapeutic implications. Clin Pharmacokinet 5(6):485-527.
- *NAS. 1978. Nonfluorinated halomethanes in the environment. Washington, DC: National Academy of Sciences, 32-35, 39-40, 68-77, 116-118, 127-130, 257.
- *NAS/NRC. 1989. Report of the oversight committee. Biologic markers in reproductive toxicology. Washington, DC: National Academy of Sciences, National Research Council, National Academy Press, 15-35.
- *Neely WB, Branson DR, Blau GE. 1974. Partition coefficient to measure bioconcentration potential of organic chemicals in fish. Environ Sci Technol 8:1113-1115.
- *NIOSH. 1984. Monohalomethanes: Methyl chloride CH3Cl, methyl bromide CH3Br, methyl iodide CH3I. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. Current Intelligence Bulletin
- *NIOSH. 1996. Method 2520, Issue 2. Methyl bromide. NIOSH manual of analytical methods. Fourth edition. http://www.cdc.gov/niosh/docs/2003-154/pdfs/2520.pdf. May 27, 2015.
- *NIOSH. 2014. Methyl bromide. Immediately Dangerous to Life or Health Concentrations (IDLH). Atlanta, GA: National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. http://www.cdc.gov/niosh/idlh/74839.html. May 23, 2016.
- *NIOSH. 2015. Methyl bromide. NIOSH pocket guide to chemical hazards. Atlanta, GA: National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. http://www.cdc.gov/niosh/npg/npgd0400.html. May 26, 2015.
- *NPIRS. 2016. PC code: 53201. Methyl bromide. Search for federal pesticide products. National Pesticide Information Retrieval System. http://npirspublic.ceris.purdue.edu/ppis/Default.aspx. January 29, 2016.
- *NRC. 1993. Pesticides in the diets of infants and children. Washington, DC: National Research Council. National Academy Press. PB93216091.
- +*NTP. 1992. Toxicology and carcinogenesis studies of methyl bromide (CAS no. 74-83-9) in B6C3F1 mice (inhalation studies). National Toxicology Program. Technical report series No. 385. http://ntp.niehs.nih.gov/ntp/htdocs/lt_rpts/tr385.pdf. May 27, 2015.

- *NTP. 2014. Report on carcinogens. Thirteenth edition. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. http://ntp.niehs.nih.gov/pubhealth/roc/roc13/. April 9, 2015.
- *O'Malley MA, Fong H, Mehler L, et al. 2011. Illness associated with exposure to methyl bromide-fumigated produce- California, 2010. MMWR Morb Mortal Wkly Rep 60(27):923-926.
- +*O'Neal L. 1987. Acute methyl bromide toxicity. JEN 13:96-98.
- *Oremland RS, Miller LG, Strohmaier FE. 1994. Degradation of methyl bromide in anaerobic sediments. Environ Sci Technol 28(3):514-520.
- *OSHA. 1995. Method PV2040. Methyl bromide. Sampling and analytical methods. Occupational Safety and Health Administration. https://www.osha.gov/dts/sltc/methods/partial/pv2040/2040.html. May 27, 2015.
- *OSHA. 2015a. Subpart Z Toxic and hazardous substances. Air contaminants. Occupational Safety and Health Standards. Code of Federal Regulations 29 CFR 1910.1000. https://www.gpo.gov/fdsys/pkg/CFR-2015-title29-vol6/pdf/CFR-2015-title29-vol6-sec1910-1000.pdf. April 21, 2016.
- *OSHA. 2015b. Subpart Z Toxic and hazardous substances. Air contaminants. Table Z Shipyards. Occupational Safety and Health Standards. Code of Federal Regulations 29 CFR 1915.1000. https://www.gpo.gov/fdsys/pkg/CFR-2015-title29-vol7/pdf/CFR-2015-title29-vol7-sec1915-1000.pdf. April 21, 2016.
- *Ou LT. 1998. Enhanced degradation of the volatile fumigant-nematicides 1,3-D and methyl bromide in soil. J Nematol 30(1):56-64.
- *Owen GM, Brozek J. 1966. Influence of age, sex and nutrition on body composition during childhood and adolescence. In: Falkner F, ed. Human development. Philadelphia, PA: WB Saunders, 222-238.
- *Papiernik SK, Gan J, Yates SR. 2000. Mechanism of degradation of methyl bromide and propargyl bromide in soil. J Environ Qual 29:1322-1328.
- *Pellizzari ED, Zweidinger RA, Erickson MD. 1978. Environmental monitoring near industrial sites: Brominated chemicals, Part I. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances.
- *Pellizzari ED, Sheldon LS, Bursey JT. 1985. Method 25. GC/MS determination of volatile halocarbons in blood and tissue. In: Fishbein L, O'Neil IK, eds. Environmental carcinogens selected methods of analysis. Volume 7-some volatile halogenated hydrocarbons. Lyon, France: International Agency for Research on Cancer (IARC), 435-444.
- *Penkett SA, Jones EMR, Rycroft MJ, et al. 1985. An interhemispheric comparison of the concentrations of bromine compounds in the atmosphere. Nature (Lond) 318:550-553.
- *Plumb RH, Jr. 1992. The importance of volatile organic compounds as a disposal site monitoring parameter. Environmental Science Pollution Control Series 4. Groundwater contamination and analysis at hazardous waste sites, 173-197.

- +*Prain JH, Smith GH. 1952. A clinical-pathological report of eight cases of methyl bromide poisoning. Br J Ind Med 9:44-49.
- +*Prockop LD, Smith AO. 1986. Seizures and action myoclonus after occupational exposure to methyl bromide. J Fla Med Assoc 73:690-692.
- *Raabe OG. 1986. Inhalation uptake of selected chemical vapors at trace levels. Biological Effects Research Section. California Air Resources Board: UCD-472-507. https://www.arb.ca.gov/research/apr/past/a3-132-33.pdf. June 19, 2017.
- +*Rathus EM, Landy PJ. 1961. Methyl bromide poisoning. Br J Ind Med 18:53-57.
- +*Reed CJ, Gaskell BA, Banger KK, et al. 1995. Olfactory toxicity of methyl iodide in the rat. Arch Toxicol 70(1):51-56.
- *RePORTER. 2015. Bromomethane. National Institutes of Health, Research Portfolio Online Reporting Tools. http://projectreporter.nih.gov/reporter.cfm. May 28, 2015.
- +*Reuzel PG, Dreef-van der Meulen HC, Hollanders VM, et al. 1991. Chronic inhalation toxicity and carcinogenicity study of methyl bromide in Wistar rats. Food Chem Toxicol 29(1):31-39.
- +*Reuzel PG, Kuper CF, Dreef-Van Der Meulen HC, et al. 1987. Initial submission: Chronic (29-month) inhalation toxicity and carcinogenicity study of methyl bromide in rats with cover letter dated 081092. DuPont Chem Co. Submitted to the U.S. EPA under TSCA Section ECP. OTS0546338. EPA Doc. 88-920008788.
- *Robbins DE. 1976. Photodissociation of methyl chloride and methyl bromide in the atmosphere. Geophys Res Lett 3:213-216.
- +Rosenblum IRA, Stein AA, Eisinger G. 1960. Chronic ingestion by dogs of methyl bromide-fumigated food. Arch Environ Health 1:38/316-45/323.
- *Roy WR, Griffin RA. 1985. Mobility of organic solvents in water-saturated soil materials. Environ Geol Water Sci 7:241-247.
- +*Russo JM, Anger WK, Setzer JV, et al. 1984. Neurobehavioral assessment of chronic low-level methyl bromide exposure in the rabbit. J Toxicol Environ Health 14:247-255.
- *Ruth JH. 1986. Odor thresholds and irritation levels of several chemical substances: A review. Am Ind Hyg Assoc J 47:A-142-A-151.
- +*Sato M, Miyagawa M, Honma T, et al. 1985. Subacute effects of methyl bromide dosed by inhalation exposure to rats. Ind Health 23:235-238.
- *Saunders NR, Ek CJ, Habgood MD, et al. 2008. Barriers in the brain: A renaissance? Trends Neurosci 31(6):279-286. 10.1016/j.tins.2008.03.003.
- *Saunders NR, Liddelow SA, Dziegielewska KM. 2012. Barrier mechanisms in the developing brain. Front Pharmacol 3:Article 46. 10.3389/fphar.2012.00046.

- *Sax NI, Lewis RJ Sr. 1987. Hawley's condensed chemical dictionary. 11th ed. New York, NY: Van Nostrand Reinhold Company, 760.
- *Scheuplein R, Charnley G, Dourson M. 2002. Differential sensitivity of children and adults to chemical toxicity. I. Biological basis. Regul Toxicol Pharmacol 35(3):429-447.
- +*Schwob JE, Youngentob SL, Ring G, et al. 1999. Reinnervation of the rat olfactory bulb after methyl bromide-induced lesion: Timing and extent of reinnervation. J Comp Neurol 412(3):439-457.
- *Scudamore KA. 1985. Method 20. Determination of methyl bromide in grain using headspace analysis. IARC Sci Pub1 68:375-380.
- *Shackelford WM, Keith LH. 1976. Frequency of organic compounds identified in water. Athens, GA: U.S. Department of Commerce. EPA600476062. PB265470.
- *Shadnia S. 2015. Fumigants. Methyl bromide. Chapter 111. In: Hoffman RS, Howland MA, Lewin SN, et al., eds. Goldfrank's toxicologic emergencies, 10th ed. New York, NY: McGraw-Hill, 1383-1384.
- *Shannon MW, Borron SW, Burns MJ. 2007. In: Haddad and Winchester's clinical management of poisoning and drug overdose. Philadelphia, PA: Saunders, 1226-1227.
- *Shikiya J, Tsou G, Kowalski J, et al. 1984. Ambient monitoring of selected halogenated hydrocarbons and in the California South Coast Air Basin. Proceedings of the 77th Annual Meeting of the Air Pollution Control Association, 1-21.
- *Shorter JH, Kolb CE, Crill PM, et al. 1995. Rapid degradation of atmospheric methyl bromide in soils. Nature 377:717-719.
- +*Sikov MR, Cannon WC, Carr DB. 1980. Teratologic assessment of butylene oxide, styrene oxide and methyl bromide. Cincinnati, OH: National Institute for Occupational Safety and Health. PBS1168510.
- *Simmon VF, Tardiff RG. 1978. The mutagenic activity of halogenated compounds found in chlorinated drinking water. In: Jolley RL, Gorchev H, Hamilton DH, eds. Water chlorination. Environmental impact and health effects. Vol. 2. Ann Arbor, MI: Ann Arbor Science, 417-431.
- *Singh HB, Salas LJ, Smith AJ, et al. 1981. Measurements of some potentially hazardous organic chemicals in urban environments. Atmos Environ 15:601-612.
- *Singh HB, Salas LJ, Stiles RE. 1983. Methyl halides in and over the eastern Pacific (40°N-32°s). J Geophys Res 88:3684-3690.
- *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.
- *Starratt AN, Bond EJ. 1988. *In vitro* methylation of DNA by the fumigant methyl bromide. J Environ Sci Health [B] 23:513-524.
- *Tanaka S, Abuku S, Seki Y, et al. 1991. Evaluation of methyl bromide exposure on the plant quarantine fumigators by environmental and biological monitoring. Ind Health 29(1):11-21.

- +*Tanaka S, Arito H, Abuku S, et al. 1988. Acute effects of methyl bromide on electroencephalographic activity and sleep-wakefulness in rats. Ind Health 26:101-114.
- *Thomas K, Colborn T. 1992. Organochlorine endocrine disruptors in human tissue. In: Colborn T, Clement C, eds. Chemically induced alterations in sexual and functional development: The wildlife/human connection. Princeton, NJ: Princeton Scientific Publishing, 365-394.
- *TRI16 2017. TRI explorer: Providing access to EPA's toxics release inventory data. Washington, DC: U.S. Environmental Protection Agency, Office of Information Analysis and Access, Office of Environmental Information. Toxics Release Inventory. http://www.epa.gov/triexplorer/. October 9, 2017.
- *Triky-Dotan S, Ajwa HA. 2014. Dissipation of soil fumigants from soil following repeated applications. Pest Manag Sci 70(3):440-447. 10.1002/ps.3586.
- *Tucker JD, Xu J, Stewart J, et al. 1986. Detection of sister chromatid exchanges induced by volatile genotoxicants. Teratog Carcinog Mutagen 6:15-21.
- *UNEP. 2015. Montreal protocol on substances that deplete the ozone layer. 2014 Report of the methyl bromide technical options committee. United Nations Environment Program. http://ozone.unep.org/Assessment_Panels/TEAP/Reports/MBTOC/MBTOC-Assessment-Report-2014.pdf. March 23, 2016.
- *Van Den Oever R, Roosels D, Lahaye D. 1982. Actual hazard of methyl bromide fumigation in soil disinfection. Br J Ind Med 39:140-144.
- +*Verberk MM, Rooyakkers-Beemster T, De Vlieger M, et al. 1979. Bromine in blood, EEG and transaminase in methyl bromide workers. Br J Ind Med 36:59-62.
- *Verschueren K. 1983. Methyl bromide. In: Handbook of environmental data on organic chemicals. 2nd ed. New York: Van Nostrand Reinhold Company, 835-836.
- *Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of CYP2E1 in the human liver: Hypermethylation control of gene expression during the neonatal period. Eur J Biochem 238(2):476-483.
- +*Viner N. 1945. Methyl bromide poisoning: A new industrial hazard. Can Med Assoc J 53:43-45.
- +*Watrous RM. 1942. Methyl bromide, local and mild systemic toxic effects. Ind Med 11:575-579.
- *West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. J Pediatr 32:10-18.
- *Wester PW, Kroes R. 1988. Forestomach carcinogens: Pathology and relevance to man. Toxicol Pathol 16:165-171.
- *WHO. 1995. Methyl bromide. Environmental Health Criteria 166. Geneva, Switzerland: World Health Organization, International Programme on Chemical Safety. http://www.inchem.org/documents/ehc/ehc/ehc166.html. February 03, 2016.

- *WHO. 2010. WHO guidelines for indoor air quality: Selected pollutants. Geneva, Switzerland: World Health Organization. http://www.euro.who.int/__data/assets/pdf_file/0009/128169/e94535.pdf. September 9, 2014.
- *WHO. 2011. Guidelines for drinking-water quality. Geneva, Switzerland: World Health Organization. http://whqlibdoc.who.int/publications/2011/9789241548151_eng.pdf?ua=1. September 9, 2014.
- *Widdowson EM, Dickerson JWT. 1964. Chemical composition of the body. In: Comar CL, Bronner F, eds. Mineral metabolism: An advance treatise. Volume II: The elements Part A. New York, NY: Academic Press, 1-247.
- *Wilson NH, Newton PE, Rahn M, et al. 1998. Methyl bromide 1-year dietary study in dogs. Food Chem Toxicol 36(7):575-584.
- +*Wilson NH, Newton PE, Rahn M, et al. 2000. Erratum. "Methyl bromide 1-year dietary study in dogs" [Food Chem Toxicol 36(7):575-584]. Food Chem Toxicol 38(1):115-124.
- *Windholz M, ed. 1983. Methyl bromide. In: The Merck index: An encyclopedia of chemicals, drugs, and biologicals. Rahway, NJ: Merck and Company, Inc., 865.
- *WMO. 2011. Scientific assessment of ozone depletion: 2010. National Oceanic and Atmospheric Administration, National Aeronautics and Space Administration, United Nations Environment Programme, World Meteorological Organization, European Commission. http://www.wmo.int/pages/prog/arep/gaw/ozone_2010/documents/Ozone-Assessment-2010-complete.pdf. November 18, 2016.
- *Wofford P, Segawa R, Schreider J, et al. 2014. Community air monitoring for pesticides. Part 3: Using health-based screening levels to evaluate results collected for a year. Environ Monit Assess 186:1355-1370. 10.1007/s10661-013-3394-x.
- +*Wong O, Brocker W, Davis HV, et al. 1984. Mortality of workers potentially exposed to organic and inorganic brominated chemicals, DBCP, TRIS, PBB and DDT. Br J Ind Med 41:15-24.
- *Woodrow JE, McChesney MM, Seiber JN. 1988. Determination of methyl bromide in air samples by headspace gas chromatography. Anal Chem 60:509-512.
- +*Wyers H. 1945. Methyl bromide intoxication. Br J Ind Med 30:24-29.
- +*Yamamoto O, Hori H, Tanaka I, et al. 2000. Experimental exposure of rat skin to methyl bromide: A toxicokinetic and histopathological study. Arch Toxicol 73(12):641-648.
- *Yamano Y, Nakadate T. 2006. Three occupationally exposed cases of severe methyl bromide poisoning: Accident caused by a gas leak during the fumigation of a folklore museum. J Occup Health 48(2):129-133.
- *Yamano Y, Kagawa J, Ishizu S, et al. 2001. Three cases of acute methyl bromide poisoning in a seedling farm family. Ind Health 39(4):353-358.
- *Yamano Y, Tokutake T, Ishizu S, et al. 2011. Occupational exposure in methyl bromide manufacturing workers: 17-year follow-up study of urinary bromide ion concentration for biological monitoring. Ind Health 49(1):133-138.

- *Yates SR, Gan J, Papiernik SK. 2003. Environmental fate of methyl bromide as a soil fumigant. Rev Environ Contam Toxicol 177:45-122.
- *Yates SR, Wang D, Ernst FF, et al. 1997. Methyl bromide emissions from agricultural fields: Baresoil, deep injection. Environ Sci Technol 31(4):1136-1143.
- +*Youngentob SL, Schwob JE. 2006. Odorant identification and quality perception following methyl bromide-induced lesions of the olfactory epithelium. Behav Neurosci 120(6):1346-1355. 10.1037/0735-7044.120.6.1346.
- *Yvon SA, Butler JH. 1996. An improved estimate of the oceanic lifetime of atmospheric CH₃Br. Geophys Res Lett 23(1):53-56.
- *Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. Pediatr Res 12(1):29-34.
- +*Zwaveling JH, De Kort WL, Meulenbelt J, et al. 1987. Exposure of the skin to methyl bromide: A study of six cases occupationally exposed to high concentrations during fumigation. Hum Toxicol 6:491-49.