

8. REFERENCES

- * ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. 5th ed. American Conference of Governmental Industrial Hygienists. Cincinnati, OH.
- Adams M, Collins M. 1988. Sensitive portable gas chromatograph with data retrieval and communications capability for remote surveillance of toxic gases and vapors in plant. Anal Proc 25:190-191.
- Ahmed AE, Abreu ME. 1982. Microsomal metabolism of acrylonitrile in liver and brain. Adv Exp Med Biol 136B:1229-1238.
- Ahmed AE, Farooqui, MYH. 1982. Comparative toxicities of aliphatic nitriles. Toxicol Lett 12:157-163.
- * Ahmed AE, Patel K. 1981. Acrylonitrile: In vivo metabolism in rats and mice. Drug Metab Dispos 9:219-222.
- * Ahmed AE, Farooqui MY, Upreti RK, et al. 1982. Distribution and covalent interactions of [1-¹⁴C]acrylonitrile in the rat. Toxicology 23:159-175.
- * Ahmed AE, Farooqui MYH, Upreti RK, et al. 1983. Comparative toxicokinetics of 2,3-¹⁴C- and 1-¹⁴C-acrylonitrile in the rat. J Appl Toxicol 3:39-47.
- Alridge WN. 1944. A new method for the estimation of micro quantities of cyanide and thiocyanate. Analyst 69:262-265.
- * Amacher DE, Turner GN. 1985. Tests for gene mutational activity in L5178Y/TK assay system. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 487-496.
- Amoore JE, Hautala E. 1983. Odor as an aid to chemical safety: Odor thresholds compared with threshold limit values and volatilities for 214 industrial chemicals in air and water dilution. J Appl Toxicol 3:272-290.
- * AN Group. 1990. Public comments on scientific and technical issues on the Draft Toxicological Profile for Acrylonitrile. Submitted to Agency for Toxic Substances and Disease Registry (ATSDR) February 15.

* - Cited in text.

8. REFERENCES

- * Anderson D, Cross MF. 1985. Suitability of the P388F mouse lymphoma system for detecting potential carcinogens and mutagens. *Food Chem Toxicol* 23:115-118.
- * Anderson RA, Harland WA. 1980. The analysis of volatiles in blood from fire fatalities. In: Oliver JS, ed. *Forensic Toxicology. Proc. Eur. Meet. Int. Assoc. Forensic Toxicol.* Baltimore, MD: University Park Press, 279-292.
- Appel KE, Peter H, Bolt M, et al. 1981a. Effect of potential antidotes on the acute toxicity of acrylonitrile. *Int Arch Occup Environ Health* 49:157-163.
- Appel KE, Peter H, Bolt M, et al. 1981b. Interaction of acrylonitrile with hepatic microsomes of rats and men. *Toxicol Lett* 7:335-339.
- * Arni P. 1985. Induction of various genetic effects in the yeast Saccharomyces cerevisiae strain D7. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research, Vol. 5. Evaluation of short-term tests for carcinogens.* Amsterdam, The Netherlands: Elsevier Science Publishers, 217-224.
- Atkinson R, Carter WPL, Aschmann SM, et al. 1985. Atmospheric fates of organic chemicals: Prediction of ozone and hydroxyl radical reaction rates and mechanisms. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/3-85/063. NTIS No. PB85-241529.
- * Back KC, Thomas AA, MacEwen JD. 1972. Reclassification of materials listed as transportation health hazards. Washington DC: Department of Transportation, Office of Hazardous Materials. NTIS No. PB-214270.
- * Baker RS U, Bonin AM. 1985. Tests with the Salmonella plateincorporation assay. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens.* Amsterdam, The Netherlands: Elsevier Science Publishers, 177-180.
- * Banerjee S, Segal A. 1986. In vitro transformation of C3H/10T1/2 and NIH/3T3 cells by acrylonitrile and acrylamide. *Cancer Lett* 32:293-304.
- * Barnes D, Bellin J, DeRosa C, et al. 1987. Reference dose (RfD): Description and use in health risk assessments. Vol. I. Appendix A: Integrated risk information system supportive documentation. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-86/032a.

8. REFERENCES

- Barrett WJ, Dillon HK, James RH. 1974. Sampling and analysis of four organic compounds using solid sorbents, No. 1. Cincinnati, OH: National Institute for Occupational Safety and Health. NTIS No. PB82-151861.
- * Barrows ME, Petrocelli SR, Macek KJ, et al. 1978. Bioconcentration and elimination of selected water pollutants by bluegill sunfish. Proceedings - American Chemical Society, Division of Environmental Chemistry. 18:345-346.
- * Baxter RA. 1979. Evaluation and control of industrial exposure to acrylonitrile. Ann Occup Hyg 22:429-435.
- * Beliles RP, Paulin HJ, Makris NG, et al. 1980. Three-generation reproduction study of rats receiving acrylonitrile in drinking water. Chemical Manufacturers Association. Washington, DC. LB1 Project No. 2660, February.
- Berg GL, ed. 1984. Farm chemicals handbook 1984. Willoughby, OH: Meister Publishing Co., C5, C44.
- Betso SR, McLean JD. 1976. Determination of acrylamide monomer by differential pulse polarography. Anal Chem 48:766-770.
- * Bigner DD, Bigner SH, Burger PC, et al. 1986. Primary brain tumors in Fischer 344 rats chronically exposed to acrylonitrile in their drinking water. Food Chem Toxicol 24:129-137.
- * Bio/dynamics. 1980a. A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered to Spartan rats in the drinking water. Biodynamics, Inc., Division of Biology and Safety Evaluation, East Millstone, NJ. Project No. BDN-77-28.
- * Bio/dynamics. 1980b. A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered in the drinking water to Fischer 344 rats. Biodynamics, Inc., Division of Biology and Safety Evaluation, East Millstone, NJ. Project No. BDN-77-27.
- * Bio/dynamics. 1980c. A twenty-four month oral toxicity/carcinogenicity study of acrylonitrile administered by intubation to Spartan rats.
- Biodynamics, Inc., Division of Biology and Safety Evaluation, East Millstone, NJ. Project No. BDN-77-29.
- Bishop CS, Dye A. 1982. Microwave heating enhances the migration of plasticizers out of plastics. J Environ Health 44:231-235.

8. REFERENCES

- Bocek K. 1976. Relationships among activity coefficients, partition coefficients and solubilities. In: Tichy M, ed. Quantitative structure-activity relationships. Basel and Stuttgart: Birkhauser Verlag, 231-240.
- Bolt HM, Laib RJ, Peter, H et al. 1986. DNA adducts of halogenated hydrocarbons. J Cancer Res Clin Oncol 112:92-96.
- Borders RA, Gluck SJ, Sowle WF, et al. 1986. Development and validation of personal monitoring methods for low levels of acrylonitrile in workplace atmosphere: II. Thermal desorption and field validation. Am Ind Hyg Assoc J 47:158-163.
- Bradley MO. 1985. Measurement of DNA single-strand breaks by alkaline elution in rat hepatocytes. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 353-357.
- * Brat SV, Williams GM. 1982. Hepatocyte-mediated production of sister chromatid exchange in co-cultured cells by acrylonitrile: Evidence for extra cellular transport of a stable reactive intermediate. Cancer Lett 17:213-216.
- Brieger H, Rieders F, Hodes WA. 1951. Acrylonitrile: spectrophotometric determination, acute toxicity and mechanism of action. Arch Ind Health Occup Toxicol 6:128-140.
- * Brodinzky R, Singh HB. 1983. Volatile organic chemicals in the atmosphere: An assessment of available data. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/3-83-027(A).
- * Brooks TM, Gonzalez LP, Calvert R, et al. 1985. The induction of mitotic gene conversion in the yeast Saccharomyces cerevisiae strain JD1. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 225-228.
- Buchter A, Peter H. 1984. Clinical toxicology of acrylonitrile. G Ital Med Law 6:83-86.
- Cadena F, Eiceman GA, Vandiver VJ. 1984. Removal of volatile organic pollutants from rapid streams. J Water Pollut Control Fed 5:460-463.

8. REFERENCES

- CCTTE. 1988. Computerized Listing of Chemicals Being Tested for Toxic Effects. United Nations Environment Programme, International Programme on Chemical Safety, International Register of Potentially Toxic Chemicals, Geneva, Switzerland.
- * Chen JL, Walrath J, O'Berg MT, et al. 1987. Cancer incidence and mortality among workers exposed to acrylonitrile. *Am J Ind Med* 11:157-163.
- * Cherry AB, Gabaccia AJ, Senn HW. 1956. The assimilation behavior of certain toxic organic compounds in natural water. *Sewage and Industrial Wastes*. 28:1137-1146.
- Clamsky KB, ed. 1986. Chemical guide to the OSHA hazard communication standard. Burlingame, CA: Roytech Publications, Inc., 68-E-3.
- CLC. 1989. Coordinated List of Chemicals. U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC.
- * CLPSD. 1988. Contract Laboratory Program Statistical Database. Viar and Company, Management Services Division, Alexandria, VA. December 1988.
- * Cogswell SA. 1984. CEH marketing research report: acrylonitrile. In: Chemical economics handbook. Menlo Park, CA: SRI International.
- * Collins JJ, Page LC, Caporossi JC, et al. 1989. Mortality patterns among employees exposed to acrylonitrile. *J Occup Med* 31:368-371.
- * Commission of the European Communities. 1983. Reports of the scientific committee for food (thirteenth series). Luxembourg. NTIS No. PB83-172759.
- Connor TH, Forti GC, Sitra P, et al. 1979. Bile as a source of mutagenic metabolites produced in vivo and detected by Salmonella typhimurium. *Environ Mutagen* 1:269-276.
- Cooke M, Degner KB, Osborne MC, et al. 1984. Candidate sampling and analysis methods for twenty-one suspect carcinogens in combustion emissions. Proceedings - Air Pollution Control Association Annual Meeting, 77th 84-12.4.
- * Cote IL, Bowers A, Jaeger RJ. 1983. Induced tolerance to acrylonitrile toxicity by prior acrylonitrile exposure. *Res Commun Chem Pathol Pharmacol* 42:169-172.

8. REFERENCES

- * Cote IL, Bowers A, Jaeger RJ. 1984. Effects of acrylonitrile on tissue glutathione concentrations in rat, mouse, and hamster. *Res Commun Chem Pathol Pharmacol* 43:507-510.
- Crane CR, Sanders DC, Endecott BR, et al. 1986. Inhalation toxicology: VI. Evaluation of the relative toxicity of thermal decomposition products from nine aircraft panel materials. Washington, DC: Federal Aviation Administration, Office of Aviation Medicine. DOT/FAA/AM-86/3.
- * Crespi CL, Ryan CG, Seixas GM, et al. 1985. Tests for mutagenic activity using mutation assays at two loci in the human lymphoblast cell lines TK6 and AHH-1. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research*. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 497-516.
- * Cupitt LT. 1980. Fate of toxic and hazardous materials in the air environment. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/3-80-084. NTIS No. PB80-221948.
- * De Meester C, Poncelet F, Roberfroid, et al. 1978. Mutagenicity of acrylonitrile. *Toxicology* 11:19-27.
- De Meester C, Duverger-Van Bogaert M, Lambotte-Vandepaer M, et al. 1979. Liver extract mediated mutagenicity of acrylonitrile. *Toxicology* 13:7-15.
- * Delzell E, Monson RR. 1982. Mortality among rubber workers: VI. Men with potential exposure to acrylonitrile. *J Occup Med* 24:767-769.
- * DiGeronimo MJ, Antoine AD. 1976. Metabolism of acetonitrile and propionitrile by *Nocardia rhodochrous* LL100-21. *Appl Environ Microbiol* 31:900-906.
- Dorigan J, Fuller B, Duffy R. 1976. Preliminary scoring of organic air pollutants: Chemistry, production and toxicity of selected synthetic organic chemicals (chemicals A-C) Appendix I. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA-450/3-77-008b. NTIS No. PB-264443.
- Dossing M, Ranek L. 1984. Isolated liver damage in chemical workers. *Br J Ind Med* 41:142-144.
- * Dudley HC, Neal PA. 1942. Toxicology of acrylonitrile (vinyl cyanide): I. A study of the acute toxicity. *Journal of Industrial Hygiene and Toxicology* 24:27-36.

8. REFERENCES

- Duverger M, Lambotte M, Malvoisin E, et al. 1981a. Metabolic activation and mutagenicity of 4 vinylic monomers (vinyl chloride, styrene, acrylonitrile, butadiene). *Toxicol Eur Res* 3:131-140.
- Duverger-Van Bogaert M, Lambotte-Vandepaer M, de Meester C, et al. 1981b. Effect of several factors on the liver extract mediated mutagenicity of acrylonitrile and identification of four new in vitro metabolites. *Toxicol Lett* 7:311-319.
- Duverger-van Bogaert M, Lambotte-Vandepaer M, Mercier M, et al. 1982a. In vitro covalent binding of acrylonitrile to rat liver proteins. *Toxicol Lett* 13:203-209.
- Duverger-van Bogaert M, Lambotte-Vandepaer M, de Meester C, et al. 1982b. Role of glutathione in liver-mediated mutagenicity of acrylonitrile. *Toxicol Lett* 11:305-311.
- Duverger-van Bogaert M, Lambotte-Vandepaer M, de Meester C. 1982c. Vinyl chloride and acrylonitrile: Activation mechanism and mutagenicity. *Toxicol Eur Res* 4:35-37.
- Duverger M, Lambotte M, Mercier, et al. 1983. Role of glutathione in the in vivo and in vitro mutagenicity of acrylonitrile. *Mutat Res* 113:247-248.
- Edney E, Mitchell S, Bufalini JJ. 1982. Atmospheric chemistry of several toxic compounds. Research Triangle Park, NC: U.S.
- Environmental Protection Agency, Office of Research and Development. EPA-600/3-82-092. NTIS No. PB83-146340.
- * EPA. 1980a. Ambient water quality criteria for acrylonitrile. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA 440/5-80-017. NTIS No. PB81-111285.
- * EPA. 1980b. Volatile organic compounds by purge-and-trap isotope dilution GC-MS. Method 1624. Washington, DC: U.S. Environmental Protection Agency.
- * EPA. i9aoc. U.S. Environmental Protection Agency. Federal Register. 45:33084-33133.
- * EPA. 1980d. U.S. Environmental Protection Agency. Part V. Federal Register. 45:79318-79379.

8. REFERENCES

- * EPA. 1982a. Acrolein and acrylonitrile - method 603. In: Longbottom JE, Lichtenberg JJ, eds. Methods for organic chemical analysis of municipal and industrial wastewater. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. EPA-600/4-82-057.
- * EPA. 1982b. Purgeables - method 624. In: Longbottom JE, Lichtenberg JJ, eds. Methods for organic chemical analysis of municipal and industrial wastewater. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. EPA-600/4-82-057.
- * EPA. 1983a. Treatability manual: Volume I. Treatability data. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/2-82-001a.
- * EPA. 1983b. Reportable quantity document for acrylonitrile. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office. External Review Draft ECAO-CIN-R005.

EPA. 1983c. Health assessment document for acrylonitrile. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/8-82-007F.
- * EPA. 1984. Locating and estimating air emissions from sources of acrylonitrile. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA-450/4-84-007a.
- * EPA. 1985a. Health and environmental effects profile for acrylonitrile. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/X-85/372. NTIS No. PB88-170832.
- * EPA. 1985b. U.S. Environmental Protection Agency. Part II. Federal Register. 50:13456-13522.

EPA. 1985c. U.S. Environmental Protection Agency. Federal Register 50:24319-24321.
- * EPA. 1986a. Reference values for risk assessment. Final draft. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Solid Waste. ECAO-CIN-477.
- * EPA. 1986b. Gas chromatographic analysis of acrolein, acrylonitrile, and acetonitrile. Method 8030. In: Test methods for evaluating solid wastes. SW-846. 3rd ed. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

8. REFERENCES

- * EPA. 1987a. Health effects assessment for acrylonitrile. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/8-88/014. NTIS No. PB88-179411.

- EPA. 1987b. Toxic air pollutant/source crosswalk: A screening tool for locating possible sources emitting toxic air pollutants. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA-450/4-87-023a.

- EPA. 1987c. U.S. Environmental Protection Agency. Part II Federal Register. 52:8140.

- * EPA. 1987d. U.S. Environmental Protection Agency. Part II. Federal Register. 52:13378-13410.

- * EPA. 1987e. U.S. Environmental Protection Agency. Part II. Federal Register. 52:25942-25953.

- * EPA. 1988. U.S. Environmental Protection Agency. Part II. Federal Register. 53:4500-4539.

- * 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. Part II. Federal Register. 54:1056-1120.

- * EPA, 1989c. U.S. Environmental Protection Agency. Part II. Federal Register. 54:33425-33431.

- EXICHEM Database. 1989. Organization for Economic Cooperation and Development.

- Fanini D, Trieff NM, Sadagopa Ramanujam VM, et al. Effect of acute acrylonitrile exposure on metrazol induced seizures in the rat. *Neurotoxicology* 6:29-34.

- * Farooqui MYH, Ahmed AE. 1982. Molecular interaction of acrylonitrile and potassium cyanide with rat blood. *Chem Biol Interact* 38:145-159.

- * Farooqui MYH, Ahmed AE. 1983a. The effects of acrylonitrile on hemoglobin and red cell metabolism. *J Toxicol Environ Health* 12:695-707.

- Farooqui MYH, Ahmed AE. 1983b. In vivo interactions of acrylonitrile with macromolecules in rats. *Chem Biol Interact* 47:363-371.

8. REFERENCES

- * FDA. 1984. Food and Drug Administration. Federal Register 49:36635-36644.
- Fennell TR, MacNeela JP, Turman MN, et al. 1989. Hemoglobin adducts formed on administration of acrylonitrile (AN) to rats. CIIT, Research Triangle Park, NC.
- Fennell TR, Sumner SC, Held SD, et al. 1990. Detection of urinary metabolites of [1,2,3-¹³C] acrylonitrile in the rat and mouse detected by ¹³C nuclear magnetic resonance spectroscopy. CIIT, Research Triangle Park, NC.
- Fossa AK, Riano MM, Lavin PJ, et al. 1984. New York State techniques and experience in regulating toxic air contaminants. Proceedings - Air Pollution Control Association Annual Meeting 77. 84-6.2.
- Freed DJ, Majsce AM. 1977. In situ generation of standards for gas chromatographic analysis. Anal Chem 49:139-141.
- * Freshour NL, Melcher RG. 1983. Analytical method for the determination of acrylonitrile in rat plasma at the nanograms per milliliter level. J Anal Toxicol 7:103-105.
- * FSTRAC. 1988. Summary of state and federal drinking water standards and guidelines. Washington, DC: Federal-State Toxicology and Regulatory Alliance Committee, Chemical Communication Subcommittee.
- * Fujikawa K, Ryo H, Kondo S. 1985. The Drosophila reversion assay using the unstable zeste-white somatic eye color system. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 319-324.
- Fujisawa S, Masuhara E. 1981. Determination of partition coefficients of acrylates, methacrylates, and vinyl monomers using high performance liquid chromatography (HPLC). J Biomed Mater Res 15:787-793.
- * Gallagher GT, Maul EA, Kovacs K, et al. 1988. Neoplasms in rats ingesting acrylonitrile for two years. J Am Coll Toxicol 7:603-615.
- * Garner RC, Campbell J. 1985. Tests for the induction of mutations to ouabain or 6-thioguanine resistance in mouse lymphoma L5178Y cells. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 525-529.

8. REFERENCES

- Garrett NE, Stack HF, Gross MR, et al. 1984. An analysis of the spectra of genetic activity produced by known or suspected human carcinogens. *Mutat Res* 134:89-111.
- Geiger LE, Hogy LL, Guengerich FP. 1983. Metabolism of acrylonitrile by isolated rat hepatocytes. *Cancer Res* 43:3080-3087.
- Gerin M, Tardif R, Brodeur J. 1988. Determination of specific urinary thioethers derived from acrylonitrile and ethylene oxide. *IARC Sci Pub* 275-278.
- * Ghanayem BI, Ahmed AE. 1982. In vivo biotransformation and biliary excretion of 1-¹⁴C-acrylonitrile in rats. *Arch Toxicol* 50:175-185.
- * Ghanayem BI, Ahmed AE. 1983. Acrylonitrile-induced gastrointestinal hemorrhage and the effects of metabolism modulation in rats. *Toxicol Appl Pharmacol* 68:290-296.
- Ghanayem BI, Ahmed AE. 1986. Prevention of acrylonitrile-induced gastrointestinal bleeding by sulfhydryl compounds, atropine and cimetidine. *Res Commun Chem Pathol Pharmacol* 53:141-144.
- * Ghanayem BI, Boor PJ, Ahmed AE. 1985. Acrylonitrile-induced gastric mucosal necrosis: Role of gastric glutathione. *J Pharmacol Exp Ther* 232:570-577.
- * Gilbert SG, Miltz .I, Giacini JR. 1980. Transport considerations of potential migrants from food packaging materials. *Journal of Food Processing and Preservation* 4:27-49.
- * Glauert HP, Kennan WS, Sattler GL, et al. 1985. Assays to measure the induction of unscheduled DNA synthesis in cultured hepatocytes. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research*. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 371-373.
- Going JE, Kuykendahl P, Long S, et al. 1979. Environmental monitoring near industrial sites: acrylonitrile. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances. EPA-560/6-79-003. NTIS No. PB-295928.
- Goncharova LN, Chirkov VV, Rudakova LE. 1984. [Effect of the manufacture of acrylonitrile on endocrine function.] *Gig Tr Prof Zabol* 23-25. (Russian)
- Gortseva LV, Tarasova NA, Shutova TV, et al. 1987. [Determination of acrylonitrile in polymer materials and aqueous and oily extracts of them by the gas-chromatography method.] *Gig Sanit* 61-62. (Russian)

8. REFERENCES

- Gosselin RE, Smith RP, Hodge HC, et al. 1984. Clinical toxicology of commercial products. 5th ed. Baltimore, MD: Williams and Wilkins, 11-215.
- * Grunske F. 1949. Health care and occupational medicine. Ventox and Ventox intoxication. Dtsch Med Wochenschr 74:1081-1083.
- * Guengerich FP, Geiger LE, Hogg LL, et al. 1981. In vitro metabolism of acrylonitrile to 2-cyanoethylene oxide, reaction with glutathione, and irreversible binding to proteins and nucleic acids. Cancer Res 41:4925-4933.
- Guengerich FP, Hogg LL, Inskeep PB, et al. 1986. Metabolism and covalent binding of α -dihaloalkanes, vinyl halides and acrylonitrile. IARC Sci Publ 70:255-260.
- Guicherit R, Schulting FL. 1985. The occurrence of organic chemicals in the atmosphere of The Netherlands. Sci Total Environ 43:193-219.
- * Gut I, Nerudova J, Kopecky J, et al. 1975. Acrylonitrile biotransformation in rats, mice, and Chinese hamsters as influenced by the route of administration and by phenobarbital, SKF 525-A, cysteine, dimercaprol, or thiosulfate. Arch Toxicol 33:151-161.
- Gut I, Kopecky J, Filip J. 1981. Acrylonitrile- ^{14}C metabolism in rats: Effect of the route of administration on the elimination of thiocyanate and other radioactive metabolites in urine and feces. J Hyg Epidemiol Microbiol Immunol 25:12-16.
- * Gut I, Nerudova J, Frantik E, et al. 1984. Acrylonitrile inhalation in rats: I. Effect on intermediary metabolism. J Hyg Epidemiol Microbiol Immunol 28:369-376.
- * Gut I, Nerudova J, Stiborova A, et al. 1985. Acrylonitrile inhalation in rats: II. Excretion of thioethers and thiocyanate in urine. J Hyg Epidemiol Microbiol Immunol 29:9-13.
- Hachiya N, Sato M, Takizawa Y. 1984. Detection of DNA damage in mutagen-treated mammalian tissues by alkaline elution assay. Mutat Res 130:363.
- Haemisegger E, Jones A, Steigerwald B, et al. 1985. The air toxics problem in the United States: An analysis of cancer risks for selected pollutants. Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation (ANR-443). EPA-450/1-85-001. NTIS No. PB85-225175.

8. REFERENCES

- * Harris GW, Kleindienst TE, Pitts JN Jr. 1981. Rate constants for the reaction of OH radicals with CH₃CN, C₂H₅CN and CH₂ = CH-CN in the temperature range 298-424 K. *Chemical Physics Letters* 80:479-483.
- * Hashimoto S, Bandow H, Akimoto H, et al. 1984. Products and mechanism for the OH radical initiated oxidation of acrylonitrile, methacrylonitrile and allylcyanoide in the presence of NO. *International Journal of Chemical Kinetics* 16:1385-1399.
- Haskovec C, Gut I, Volmerova D, et al. 1988. Acrylonitrile depletes glutathione without changing calcium sequestration in hepatic microsomes and mitochondria. *Toxicology* 48:87-92.
- * Hassett JJ, Banwart WL, Griffin RA. 1983. Correlation of compound properties with sorption characteristics of nonpolar compounds by soils and sediments: concepts and limitations. In: Francis CW, Auerbach SI, Jacobs VA, eds. *Environment and solid wastes: characterization, treatment, and disposal*. Boston, MA: Butterworths, 161-176.
- * Hogy LL, Guengerich FP. 1986. In vivo interaction of acrylonitrile and 2-cyanoethylene oxide with DNA in rats. *Cancer Res* 46:3932-3938.
- Holecek V, Kopecky J. 1983. Conjugations of acrylonitrile and glycidonitrile with glutathione--a contribution to problems of metabolism of acrylonitrile. *Czech Med* 6:116-121.
- * Houthuijs D, Remijn B, Willems H, et al. 1982. Biological monitoring of acrylonitrile exposure. *Am J Ind Med* 3:313-320.
- Hradec J, Spiegelhalder B, Preussmann R. 1988. The initiator tRNA acceptance assay as a short-term test for carcinogens. 2. Results with ten compounds selected by the International Programme on Chemical Safety for the evaluation of short-term tests for carcinogens. *Carcinogenesis* 9:843-846.
- * HSDB. 1988. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. December 1988.
- * Hughes TW, Horn DA. 1977. Source assessment: Acrylonitrile manufacture (air emissions). Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-60V2-77-107j. NTIS No. PB-271969.
- * Humiston CG, Frauson LO, Quast JF, et al. 1975. A go-day oral toxicity study incorporating acrylonitrile in the drinking water of rats. Dow Chemical Company, Health and Environmental Research, Toxicology Research Laboratory, Midland, MI.

8. REFERENCES

- * Hurtt ME, Bentley KS, Working PK. 1987. Effects of acrylamide and acrylonitrile on unscheduled DNA synthesis (UDS) in rat spermatocytes. *Environ Mutagen* 9:49-50.
- IAPA. 1987. Occupational health bulletin: acrylonitrile. Industrial Accident Prevention Association. Toronto, Ontario.
- * IARC. 1982. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Chemicals, industrial processes and industries associated with cancer in humans. IARC monographs, Volumes 1 to 29, supplement 4. International Agency for Research on Cancer, Lyon, France.
- * IARC. 1979. Acrylonitrile, acrylic and modacrylic fibres, and acrylonitrile-butadiene-styrene and styrene-acrylonitrile copolymers. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans: Some monomers, plastics and synthetic elastomers, and acrolein. International Agency for Research on Cancer, Lyon, France 19:73-113.
- IARC. 1988. International Agency for Cancer Research, Lyon, France.
- * IRIS. 1988. Integrated Risk Information System. U.S. Environmental Protection Agency, Washington, DC. December 1988.
- IRPTC. 1989. International Register of Potentially Toxic Chemicals. United Nations Environment Programme, Geneva, Switzerland. January, 1989.
- * Jacobs HW, Syrjala RH. 1978. The use of infrared analyzers for monitoring acrylonitrile. *Am Ind Hyg Assoc J* 39:161-165.
- Jaeger RJ, Cote IL. 1982. Effect of hypoxia on the acute toxicity of acrylonitrile. *Res Commun Chem Pathol Pharmacol* 36:345-348.
- Jaeger RJ, Cote IL, Rogers AE, et al. 1984. Acute toxicity of acrylonitrile: Effect of diet on tissue nonprotein sulfhydryl content and distribution of 1- ¹⁴C-acrylonitrile or its metabolites. *J Am Coll Toxicol* 3:93-102.
- * Jakubowski M, Linhart I, Pielas G, et al. 1987. 2-Cyanoethylmercapturic acid (CEMA) in the urine as a possible indicator of exposure to acrylonitrile. *Br J Ind Med* 44:834-840.
- Kamijo K, Kovacs K, Szabo S, et al. 1986. Effect of acrylonitrile on the rat pituitary: enlargement of Golgi region in prolactin cells, crinophagy in prolactin cells and growth hormone cells. *Br J Exp Pathol* 67:439-451.

8. REFERENCES

- Kankaanpaa J, Elovaara E, Hemminiki K, et al. 1979. Embryotoxicity of acrolein, acrylonitrile and acrylamide in developing chick embryos. *Toxicol Lett* 4:93-96.
- * Kayser R, Sterling D, Viviani D. 1982. Intermedia priority pollutant guidance documents. Washington, DC: U.S. Environmental Protection Agency, Office of Toxics Integration, Office of Pesticides and Toxic Substances.
- Kedderis GL, Held SD, Batin R, et al. 1989. Dose-dependent urinary excretion of acrylonitrile (ACN) metabolites in F-344 rats and B6C3F1 mice. CIIT, Research Triangle Park, NC.
- * Kenaga EE. 1980. Predicted bioconcentration factors and soil sorption coefficients of pesticides and other chemicals. *Ecotoxicol Environ Safety* 4:26-38.
- * Khudoley VV, Mizgirev I, Pliss GB. 1987. The study of mutagenic activity of carcinogens and other chemical agents with *Salmonella typhimurium* assays: Testing of 126 compounds. *Arch Geschwulstforsch* 57:453-462.
- * Kiesselbach N, Korallus U, Lange HJ, et al. 1979. [Acrylonitrile--epidemiological study--Bayer 1977: a report on a prospective epidemiological study with a past beginning of coworkers at the Leverkusen plant of Bayer AG with acrylonitrile (ACN) exposure.] *Zentralbl Arbeitsmed Arbeitsschutz Prophyl* 10:256-259. (German)
- Kim NK, Stone DW. (NA) Organic chemicals and drinking water. New York State Department of Health, pp. 132.
- * Kincannon DF, Stover EL, Nichols V, et al. 1983. Removal mechanisms for toxic priority pollutants. *J Water Pollut Control Fed* 55:157-163.
- * King L, Sherbin G. 1986. Point sources of toxic organics to the upper St. Clair River. *Water Poll Res J Canada* 21:433-446.
- * Klein E, Weaver JW, Webre BG. 1957. Solubility of acrylonitrile in aqueous bases and alkali salts. *Industrial and Engineering Chemistry* 2:72-75.
- Koerselman W, van der Graaf M. 1984. Acrylonitrile: A suspected human carcinogen. *Int Arch &cup Environ Health* 54:317-324.
- Kopecky J, Gut I, Nerudova J, et al. 1980. Acrylonitrile metabolism in the rat. *Arch Toxicol* 4(Suppl):322-324.

8. REFERENCES

- Kopecky J, Gut I, Nerudova J, et al. 1980. Two routes of acrylonitrile metabolism. *J Hyg Epidemiol Microbiol Immunol* 24:356-362.
- * Krill RM, Sonzogni WC. 1986. Chemical monitoring of Wisconsin's groundwater. *JAWWA* 78:70-75.
- * Lambotte-Vandepaer M, Duverger-van Bogaert M. 1984. Genotoxic properties of acrylonitrile. *Mutat Res* 134:49-59.
- * Lambotte-Vandepaer M, Duverger-van Bogaert M, de Meester C, et al. 1980. Mutagenicity of urine from rats and mice treated with acrylonitrile. *Toxicology* 16:67-71.
- * Lambotte-Vandepaer M, Duverger-van Bogaert M, de Meester C, et al. 1981. Identification of two urinary metabolites of rats treated with acrylonitrile; influence of several inhibitors on the mutagenicity of those urines. *Toxicol Lett* 7:321-327.
- Lambotte-Vandepaer M, Duverger-van Bogaert M, Rollmann B. 1985. Metabolism and mutagenicity of acrylonitrile: An in vivo study. *Environ Mutagen* 7:655-662.
- * Langvardt PW, Putzig CL, Braun WH, et al. 1980. Identification of the major urinary metabolites of acrylonitrile in the rat. *J Toxicol Environ Health* 6:273-282.
- * Lawrence N, McGregor DB. 1985. Assays for the induction of morphological transformation in C3H/10T1/2 cells in culture with and without S9-mediated metabolic activation. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research*. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 651-658.
- * Lee CG, Webber TD. 1985. The induction of gene mutations in the mouse lymphoma L5178Y/K⁺ assay and the Chinese hamster V79/HGPRT assay. In: Ashby J, de Serres FJ, et al, eds. *Progress in mutation research*. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 547-554.
- * Leonard A, Garny V, Poncelet F, et al. 1981. Mutagenicity of acrylonitrile in mouse. *Toxicol Lett* 7:329-334.
- 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, Office of Water Planning and Standards. EPA 440/4-81-008. NTIS No. PB81-219685.

8. REFERENCES

- * Lijinsky W, Andrews AW. 1980. Mutagenicity of vinyl compounds in *Salmonella typhimurium*. *Teratogenesis Carcinog Mutagen* 1:259-267.
- * Linhart I, Smejkal J, Novak J. 1988. N-acetyl-S-(1-cyano-2-hydroxyethyl)-L-cysteine, a new urinary metabolite of acrylonitrile and oxiranecarbonitrile. *Arch Toxicol* 61:484-488.

Litvak S, Sarih L, Fournier M, et al. 1983. Involvement of tRNA in retrovirus expression: biological implications of reverse transcriptase-primer tRNA interactions. *Recent Results Cancer Res* 84:184-190.

- * Lorz H. 1950. Percutaneous poisoning with acrylonitrile *Dtsch Med Wochenschr* 75:1087-1088.
- * Ludzack FJ, Schaffer RB, Bloomhuff RN. 1961. Experimental treatment of organic cyanides by conventional processes. *J Water Pollut Control Fed* 33:492-505.
- * Mabey WR, Smith JH, Pod011 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. EPA 440/4-81-014.
- * Maltoni C, Ciliberti A, Di Maio V. 1977. Carcinogenicity bioassays on rats of acrylonitrile administered by inhalation and by ingestion. *Med Lav* 68:401-411.

Maltoni C, Ciliberti A, Carretti D. 1982. Experimental contributions in identifying brain potential carcinogens in the petrochemical industry. *Ann NY Acad Sci* 381:216-249.

- * Maltoni C, Ciliberti A, Cotti G, et al. 1988. Long-term carcinogenicity bioassays on acrylonitrile administered by inhalation and by ingestion to Sprague-Dawley rats. *Ann NY Acad Sci* 534:179-202.
- * Marano RS, Levine SP, Harvey TM. 1978. Trace determination of subnanogram amounts of acrylonitrile in complex matrices by gas chromatography with a nitrogen-selective detector. *Anal Chem* 50:1948-1950.

MATHTECH. 1982. Draft: Level I economic evaluation: Acrylonitrile. Report to U.S. Environmental Protection Agency, Office of Pesticides and Toxic Substances, Washington, DC, by MATHTECH, Inc., Arlington, VA.

8. REFERENCES

- * Matsushima T, Muramatsu M, Haresaku M. 1985. Mutation tests on *Salmonella typhimurium* by the preincubation method. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 181-186.

- * Matthews RD. 1980. Estimated permissible levels, ambient concentrations, and adverse effects of the nitrogenous products of combustion: the cyanides, nitroolefins, and nitroparaffins. *Journal of Combustion Toxicology* 7:157-172.

- * Matthews EJ, DelBalzo T, Rundell JO. 1985. Assays for morphological transformation and mutation to ouabain resistance of Balb/c-3T3 cells in culture. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam the Netherlands: Elsevier Science Publishers, 639-650.

- McMahon LW. 1983. Organic priority pollutants in wastewater. Proceedings of the 1982 UCC-ND/GAT Environmental Protection Seminar. Oak Ridge, TN: Oak Ridge National Laboratory.

- * McNally ME, Wheeler JR. 1988. Supercritical fluid extraction coupled with supercritical fluid chromatography for the separation of sulfonylurea herbicides and their metabolites from complex matrices. *J Chromatogr* 435:63-71.

- McNeal T, Brumley WC, Breder C, et al. 1979. Gas-solid chromatographic-mass spectrometric confirmation of low levels of acrylonitrile after distillation from food-simulating solvents. *J Assoc Off Anal Chem* 62:41-46.

- Melcher RG, Borders RA, Coyne LB. 1986. Development and validation of personal monitoring methods for low levels of acrylonitrile in workplace atmosphere: I. Test atmosphere generation and solvent desorption methods. *Am Ind Hyg Assoc J* 47:152-157.

- * Michael-LC, Pellizzari ED, Wiseman RW. 1988. Development and evaluation of a procedure for determining volatile organics in water. *Environ Sci Technol* 22:565-570.

- Michel F, Mercklein L, Crastes de Paulet A, et al. 1984. The effect of various acrylonitriles and related compounds on prostaglandin biosynthesis. *Prostaglandins* 27:69-84.

- * Miller LM, Villaume JE. 1978. Investigation of selected potential environmental contaminants: acrylonitrile. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances. EPA 560/2-78-003. NTIS No. PB-285881.

8. REFERENCES

- * Mills EJ Jr, Stack VT Jr. 1953. Biological oxidation of synthetic organic chemicals. *Engineering Bulletin, Proceedings of the Eighth Industrial Waste Conference, Series No. 83*, 492-517.
 - * Mills EJ Jr, Stack VT Jr. 1955. Acclimation of microorganisms for the oxidation of pure organic chemicals. *Proceedings of the Ninth Industrial Waste Conference, Series No. 87*, 449-464.
 - * Muller G, Verkoyen C, Soton N, et al. 1987. Urinary excretion of acrylonitrile and its metabolites in rats. *Arch Toxicol* 60:464-466.
 - * Murray FJ, Schwetz BA, Nitschke KD, et al. 1978. Teratogenicity of acrylonitrile given to rats by gavage or by inhalation. *Food Cosmet Toxicol* 16:547-551.
 - * Myhr B, Bowers L, Caspary WJ. 1985. Assays for the induction of gene mutations at the thymidine kinase locus in L5178Y mouse lymphoma cells in culture. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens*. Amsterdam, The Netherlands: Elsevier Science Publishers, 555-568.
 - * NAS. 1980. *Drinking water and health: Volume 3*. Washington, DC: National Academy Press, 71-76.
 - * NAS/NRC. 1989. *Biological markers in reproductive toxicology*. Washington, DC: National Academy of Sciences, National Research Council, National Academy Press.
 - * NATICH. 1988. NATICH data base report on state, local and EPA air toxics activities. July, 1988. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, National Air Toxics Information Clearinghouse.
 - * Neely WB, Branson DR, Blau GE. 1974. Partition coefficient to measure bioconcentration potential of organic chemicals in fish. *Environ Sci Technol* 8:1113-1115.
- Nerudova J, Gut I, Savolainen H. 1988. Consequences of acrylonitrile metabolism in rat hepatocytes: Effects on lipid peroxidation and viability of the cells. *Environ Res* 46:133-141.
- * NIOSH. 1977. *Current intelligence bulletin 18: acrylonitrile*. Rockville, MD: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.

8. REFERENCES

- NIOSH. 1980. Health hazard evaluation determination report no. 79-36-656, Bell Helmets, Inc., Norwalk, California. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, National Institute for Occupational Safety and Health. NTIS No. PB80-163181.
- * NIOSH. 1981-82. Registry of Toxic Effects of Chemical Substances. Acrylonitrile. National Institute of Occupational Safety and Health.
- * NIOSH. 1984. Acrylonitrile - Method 1604. In: NIOSH manual of analytical methods. 3rd ed. Cincinnati, OH: National Institute of Occupational Safety and Health.
- * NIOSH. 1985. Pocket guide to chemical hazards. Washington, DC: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health. DHHS (NIOSH) Publication NO. 85-114.
- * NIOSH. 1988a. National occupational exposure survey. Cincinnati, OH: National Institute for Occupational Safety and Health.
- * NIOSH. 1988b. NIOSH recommendations for occupational safety and health standards. Morbidity and mortality weekly report [supplement] Vol. 37:s-7. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- * NLM. 1988. National Library of Medicine - Chemline database printout for acrylonitrile. August, 1988.
- NTP. 1988. National Toxicology Program. Review of current DHHS, DOE, and EPA research related to toxicology. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service.
- Obayashi AW, Gorgan JM. 1983. Management of industrial pollutants by anaerobic processes. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/2-83-119. NTIS No. PB84-133024.
- * Obe G, Hille A, Jonas R, et al. 1985. Tests for the induction of sister-chromatid exchanges in human peripheral lymphocytes in culture. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 439-442.
- * O'Berg MT. 1980. Epidemiologic study of workers exposed to acrylonitrile. J Occup Med 22:245-252.
- * O'Berg MT, Chen JL, Burke CA, et al. 1985. Epidemiologic study of workers exposed to acrylonitrile: An update. J Occup Med 27:835-40.

8. REFERENCES

- * OSHA. 1978a. U.S. Occupational Safety and Health Administration. Part IV. Federal Register. 43:2586-2607.
- * OSHA. 1978b. U.S. Occupational Safety and Health Administration. Part VI. Federal Register. 43:45762-45819.
- OSHA. 1985. U.S. Department of Labor. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1045.
- * Page BD. 1985. Determination of acrylonitrile in foods by headspace-gas chromatography with nitrogen-sensitive detection: Collaborative study. *J Assoc Off Anal Chem* 68:776-782.
- * Parent RA, Casto BC. 1979. Effect of acrylonitrile on primary Syrian golden hamster embryo cells in culture: Transformation and DNA fragmentation. *J Natl Cancer Inst* 62:1025-1029.
- Parkin DM, Wahrendorf J, Demaret E, et al. 1987. Directory of ongoing research in cancer epidemiology. New York, NY: Oxford University Press, 267, 332-333, 344, 366, 599.
- Parry JM, Danford N, Parry EM. 1984. In vitro techniques for the detection of chemicals capable of inducing mitotic chromosome aneuploidy. *Altern Lab Anim* 11:117-128.
- * Perocco P, Pane G, Bolognesi S, et al. 1982. Increase of sister chromatid exchange and unscheduled synthesis of deoxyribonucleic acid by acrylonitrile in human lymphocytes in vitro. *Scand J Work Environ Health* 8:290-293.
- Peter H, Bolt HM. 1984. Experimental pharmacokinetics and toxicology of acrylonitrile. *G Ital Med Lav* 6:77-81.
- Peter H, Appel KE, Berg R, et al. 1983. Irreversible binding of acrylonitrile to nucleic acids. *Xenobiotica* 13:19-25.
- PHRED. 1988. Public Health Risk Evaluation Database. U.S. Environmental Protection Agency, Washington, DC. March 1988.
- * Pilon D, Roberts AE, Rickert DE. 1988a. Effect of glutathione depletion on the irreversible association of acrylonitrile with tissue macromolecules after oral administration to rats. *Toxicol Appl Pharmacol* 95:311-320.
- * Pilon D, Roberts AE, Rickert DE. 1988b. Effect of glutathione depletion on the uptake of acrylonitrile vapors and on its irreversible association with tissue macromolecules. *Toxicol Appl Pharmacol* 95:265-278.

8. REFERENCES

- * Priston RA J, Dean BJ. 1985. Tests for the induction of chromosome aberrations, polyploidy and sister chromatid exchanges in rat liver (RL,) cells. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 387-395.

- * Probst GS, Hill LE. 1985. Tests for the induction of DNA repair synthesis in primary cultures of adult rat hepatocytes. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands. Elsevier Science Publishers, 381-386.

- Prokopczyk B, Bertinato P, Hoffmann D. 1988. Synthesis and kinetics of decomposition of 7-(2-cyanoethyl)guanine and 6-(2-cyanoethyl)guanine, markers for reaction of acrylonitrile and 3-(methylnitrosamino)propionitrile with DNA. *Carcinogenesis* 9:2125-2128.

- * Quast JF, Humiston CG, Schwetz BA, et al. 1975. A six-month oral toxicity study incorporating acrylonitrile in the drinking water of purebred beagle dogs. Dow Chemical Co., Toxicology Research Laboratory, Midland, MI.

- * Quast JF, Schuetz DJ, Balmer MF, et al. 1980a. A two-year toxicity and oncogenicity study with acrylonitrile following inhalation exposure of rats. Dow Chemical Co., Toxicology Research Laboratory, Midland MI.

- * Quast JF, Wade CE, Humiston CG, et al. 1980b. A two-year toxicity and oncogenicity study with acrylonitrile incorporated in the drinking water of rats. Dow Chemical Co., Toxicology Research Laboratory, Midland, MI.

- * Rabello-Gay MN, Ahmed AE. 1980. Acrylonitrile: In vivo cytogenetic studies in mice and rats. *Mutat Res* 79:249-255.

- * Radimer GF, Davis JH, Ackerman AB. 1974. Fumigant-induced toxic epidermal necrolysis. *Arch Dermatol* 110:103-104.

- Rajendran- S, Muthu M. 1980. Nutritional and histopathological studies on rats fed on energy food fumigated with acrylonitrile. *Nutrition Reports International* 22:677-685.

- * Recio L, Skopek TR. 1988. Mutagenicity of acrylonitrile and its metabolite 2-cyanoethylene oxide in human lymphoblasts in vitro. *Mutat Res* 206:297-305.

- * Rickert DE, Roberts AE, Pilon D. 1988. Distribution of acrylonitrile (ACN) in tissues of control and glutathione (GSH) depleted B6C3F1 mice. CIIT, Research Triangle Park, NC.

8. REFERENCES

- Riddell RJ, Panacer DS, Wilde SM, et al. 1986. The importance of exposure period and cell type in in vitro cytotoxicity tests. *Altern Lab Anim* 14:86-92.
- Rinkus SJ, Legator MS. 1985. Fluorometric assay using high-pressure liquid chromatography for the microsomal metabolism of certain substituted aliphatics to 1,N⁶-ethenoadenine-forming metabolites. *Anal Biochem* 150:379-393.
- * Roberts AE, Lacy SA, Pilon D, et al. 1989. Metabolism of acrylonitrile to 2-cyanoethylene oxide in F-344 rat liver microsomes, lung microsomes, and lung cells. *Drug Metab Dispos* 17:481-486.
- * Rogaczewska T, Piotrowski J. 1968. Experimental evaluation of the absorption routes of acrylonitrile in man. *Med Pr* 19:349-354.
- * Roudabush RL, Terhaar CJ, Fassett DW, et al. 1965. Comparative acute effects of some chemicals on the skin of rabbits and guinea pigs. *Toxicol Appl Pharmacol* 7:559-565.
- * Rouisse L, Chakrabarti S, Tuchweber B. 1986. Acute nephrotoxic potential of acrylonitrile in Fischer-344 rats. *Res Commun Chem Pathol Pharmacol* 53:347-360.
- * Roy WR, Griffin RA. 1985. Mobility of organic solvents in watersaturated soil materials. *Environ Geol Water Sci* 7:241-247.
- * Sakurai H, Kusumoto M. 1972. An epidemiological study of health impairment among acrylonitrile workers. *J Sci Labor* 48:273-282.
- * Sakurai H, Onodera M, Utsunomiya T, et al. 1978. Health effects of acrylonitrile in acrylic fibre factories. *Br J Ind Med* 35:219-225.
- * Sandberg EC, Slanina P. 1980. Distribution of [1-¹⁴C] acrylonitrile in rat and monkey. *Toxicol Lett* 6:187-191.
- * Sanner T, Rivedal E. 1985. Tests with the Syrian hamster embryo (SHE) cell transformation assay. In: Ashby J, de Serres FJ, et al., eds. *Progress in mutation research*. Vol. 5. -Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 665-671.
- Sato M, Ishizu S, Momotuni H. 1975. [Determination of acrylonitrile, cyanide and thiocyanate in blood and urine.] *Jap J Ind Health* 17:99-105. (Japanese).

8. REFERENCES

- Sato M. 1978. [Studies on the toxic effect of acrylonitrile: Its metabolism, absorption, and excretion.] *Nippon Eiseigaku Zasshi* 33:497-505. (Japanese)
- * Sax NI. 1984. *Dangerous properties of industrial materials*. 6th ed. New York, NY: Van Nostrand Reinhold Company, 132-133.
- * Sax NI, Lewis RJ Sr. 1987. *Hawley's condensed chemical dictionary*. 11th ed. New York, NY: Van Nostrand Reinhold Company, 19.
- * Sharief Y, Brown AM, Backer LC, et al. 1986. Sister chromatid exchange and chromosome aberration analyses in mice after *in vivo* exposure to acrylonitrile, styrene, or butadiene monoxide. *Environ Mutagen* 8:439-448.
- Silver EH, Szabo S. 1982. Possible role of lipid peroxidation in the actions of acrylonitrile on the adrenals, liver and gastrointestinal tract. *Res Commun Chem Pathol Pharmacol* 36:33-43.
- * Silver EH, McComb DJ, Kovacs K, et al. 1982. Limited hepatotoxic potential of acrylonitrile in rats. *Toxicol Appl Pharmacol* 64:131-139.
- * Silver EH, Szabo S, Cahill M, et al. 1987. Time-course studies of the distribution of [$1-^{14}\text{C}$]Acrylonitrile in rats after intravenous administration. *J Appl Toxicol* 7:303-306.
- Sipos-Meszlenyi M, Adamis T, Hollo A, et al. 1986. Some applications of infrared and ultraviolet spectroscopy for the toxicological examination of medical plastic products. *Periodica Polytechnica Chemical Engineering* 30:165-170.
- Sittig M. 1985. *Handbook of toxic and hazardous chemicals and carcinogens*. 2nd ed. Park Ridge, NJ: Noyes Publications, 43-45.
- Solomon JJ, Fedky J, Mukai F, et al. 1985. Direct alkylation of 2'-deoxynucleosides and DNA following *in vitro* reaction with acrylamide. *Cancer Res* 45:3465-3470.
- Solomon JJ, Segal A. 1985. Direct alkylation of calf thymus DNA by acrylonitrile. Isolation of cyanoethyl adducts of guanine and thymine and carboxyethyl adducts of adenine and cytosine. *Environ Health Perspect* 62:227-230.
- Spicer CW, Riggin RM, Holdren MW, et al. 1985. Atmospheric reaction products from hazardous air pollutant degradation. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/3-85/028. NTIS No. PB85-185841.

8. REFERENCES

- SRI. 1985. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International.
- SRI. 1986. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International.
- SRI. 1987a. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International.
- SRI. 1987b. Directory of chemical producers: United States of America: Supplement II. Menlo Park, CA: SRI International.
- * SRI. 1988a. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International.
- SRI. 1988b. Directory of chemical producers: United States of America: Supplement I. Menlo Park, CA: SRI International.
- * 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.
- Steichen RJ. 1976. Modified solution approach for the gas chromatographic determination of residual monomers by head-space analysis. Anal Chem 48:1398-1402.
- * Stover EL, Kincannon DF. 1983. Biological treatability of specific organic compounds found in chemical industry wastewaters. J Water Pollut Control Fed 55:97-109.
- Strother DE, Mast RW, Kraska RC, et al. 1988. Acrylonitrile as a carcinogen: Research needs for better risk assessment. Ann NY Acad Sci 534:169-178.
- * Suta BE. 1979. Human exposure to atmospheric concentrations of selected chemicals. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. NTIS No. PB81-193278.
- Szabo S, Gallagher GT. 1984. Effects of alkyl nitriles on the gastrointestinal tract. Surv Synth Path Res 3:11-30.
- * Szabo S, Bailey KA, Boor PJ, et al. 1977. Acrylonitrile and tissue glutathione: Differential effect of acute and chronic interactions. Biochem Biophys Res Commun 79:32-37.

8. REFERENCES

- * Szabo S, Huttner I, Kovacs K, et al. 1980. Pathogenesis of experimental adrenal hemorrhagic necrosis ("apoplexy"): Ultrastructural, biochemical, neuropharmacologic, and blood coagulation studies with acrylonitrile in the rat. *Lab Invest* 42:533-546.
- Szabo S, Reynolds ES, Unger SH. 1982. Structure-activity relations between alkyl nucleophilic chemicals causing duodenal ulcer and adrenocortical necrosis. *J Pharmacol Exp Ther* 223:68-76.
- * Szabo S, Silver EH, Gallagher GT, et al. 1983. Potentiation of duodenal ulcerogenic action of acrylonitrile by PCB or phenobarbital in the rat. *Toxicol Appl Pharmacol* 71:451-454.
- * Szabo S, Gallagher GT, Silver EH, et al. 1984. Subacute and chronic action of acrylonitrile on adrenals and gastrointestinal tract: Biochemical, functional and ultrastructural studies in the rat. *J Appl Toxicol* 4:131-140.
- * Tabak HH, Quave SA, Mashni CI, et al. 1981. Biodegradability studies with organic priority pollutant compounds. *J Water Pollut Control Fed* 53:1503-1518.
- * Tandon R, Saxena DK, Chandra SV, et al. 1988. Testicular effects of acrylonitrile in mice. *Toxicol Lett* 42:55-63.
- Tanii H, Hashimoto K. 1984a. Structure-toxicity relationship of aliphatic nitriles. *Toxicol Lett* 22:267-272.
- Tanii H, Hashimoto K. 1984b. Studies on the mechanism of acute toxicity of nitriles in mice. *Arch Toxicol* 55:47-54.
- Tanii H, Hashimoto K. 1986. Influence of ethanol on the in vivo and in vitro metabolism of nitriles in mice. *Arch Toxicol* 58:171-176.
- * Tardif R, Talbot D, Gerin M, et al. 1987. Urinary excretion of mercapturic acids and thiocyanate in rats exposed to acrylonitrile: Influence of dose and route of administration. *Toxicol Lett* 39:255-261.
- * Thiess AM, Fleig I. 1978. Analysis of chromosomes of workers exposed to acrylonitrile. *Arch Toxicol* 41:149-152.
- Thuroff E, Kaufer NF, Lochmann ER. 1986. Effect of acrylonitrile on the transcription of specific genes in Saccharomyces cerevisiae. *Mol Gen Genet* 202:336-337.
- TPCDB. 1988. Testing Priority Committee Data Base. U.S. Environmental Protection Agency, Office of Toxic Substances, Washington, DC. November 18, 1988.

8. REFERENCES

- * TRI. 1988. Toxic Chemical Release Inventory. National Library of Medicine, National Toxicology Information Program, Bethesda, MD.
- * USITC. 1988. Synthetic organic chemicals: United States production and sales, 1987. Washington, DC: U.S. International Trade Commission. USITC Publication 2118.
- Van Bladeren PJ, Delbressine LP, Hoogeterp JJ, et al. 1981. Formation of mercapturic acids from acrylonitrile, crotononitrile, and cinnamionitrile by direct conjugation and via an intermediate oxidation process. *Drug Metab Dispos* 9:246-249.
- * Vanderlaan M, Watkins BE, Stanker L. 1988. Environmental monitoring by immunoassay. *Environ Sci Technol* 22:247-254.
- * Venitt S, Bushell CT, Osborne M. 1977. Mutagenicity of acrylonitrile (cyanoethylene) in Escherichia coli. *Mutat Res* 45:283-288.
- * Verschueren K. 1983. Handbook of environmental data on organic chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Company, 162-165.
- * VIEW Database. 1989. Agency for Toxic Substances and Disease Registry (ATSDR), Office of External Affairs, Exposure and Disease Registry Branch, Atlanta GA. June 20, 1989. (Map based on VIEW Database, June 12, 1989).
- Vilim V, Nerudova J, Frantik E, et al. 1988. Acrylonitrile potentiation of oxygen toxicity in rats. *Biomed Biochim Acta* 47:206-209.
- * Vogel EW. 1985. The Drosophila somatic recombination and mutation assay (SRM) using the white-coral somatic eye color system. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 313-317.
- * Vogel RA, Kirkendall WM. 1984. Acrylonitrile (vinyl cyanide) poisoning: A case report. *Tex Med* 80:48-51.
- * Walters SM. 1986. Cleanup of samples. In: Zweig G, Sherma J, eds. Analytical methods for pesticides and plant growth regulators. Vol. 15. New York, NY: Academic Press, 67-110.
- * Washall JW, Wampler TP. 1988. Purge and trap analysis of aqueous samples with cryofocusing. *American Laboratory* (July): 70-74.

8. REFERENCES

- * Weast RC, ed. 1985. CRC handbook of chemistry and physics. Boca Raton, FL: CRC Press, Inc., C-58.
- Werner JB, Carter JT. 1981. Mortality of United Kingdom acrylonitrile polymerisation workers. Br J Ind Med 38:247-253.
- * West CR. 1989. Letter with accompanying data, from Carol Rowan West, Director, Office of Research and Standards, Department of Environmental Quality Engineering, Commonwealth of Massachusetts, to Barry L. Johnson, ATSDR, dated May 8, 1989.
- * WHO. 1983. Environmental health criteria 28: acrylonitrile. World Health Organization. Geneva, Switzerland.
- * Williams GM, Tong C, Brat SV. 1985. Tests with the rat hepatocyte primary culture/DNA-repair test. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 341-345.
- * Wilson RH. 1944, Health hazards encountered in the manufacture of synthetic rubber. JAMA 124:701-703.
- * Wilson RH, Hough GV, McCormick WE. 1948. Medical problems encountered in the manufacture of American-made rubber. Ind Med 17:199-207.
- Windholz M, ed. 1983. The Merck index: An encyclopedia of chemicals, drugs, and biologicals. 10th ed. Rahway, NJ: Merck and Co., Inc., 20.
- * Working PK, Bentley KS, Hurtt ME, et al. 1987. Comparison of the dominant lethal effects of acrylonitrile and acrylamide in male Fischer 344 rats. Mutagenesis 2:215-220.
- * Wurgler FE, Graff U, Frei H. 1985. Somatic mutation and recombination test in wings of Drosophila melanogaster. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 325-340.
- * Yamada H, Asano Y, Hino T, et al. 1979. Microbiol utilization of acrylonitrile. J Ferment Technol 57:8-14.
- * Yamanaka S, Kanamaru F, Koizumi M. 1974. Role of interlayer cations in the formation of acrylonitrile-montmorillonite complexes. J Phys Chem 78:42-44.

8. REFERENCES

- * Young JD, Slauter RW, Karbowski RJ. 1977. The pharmacokinetic and metabolic profile of r4C-acrylonitrile given to rats by three routes. Dow Chemical Co., Toxicology Research Laboratory, Midland, MI,
- Young RH, Ryckman DW, Buzzell JC Jr. 1968. An improved tool for measuring biodegradability. J Water Pollut Control Fed 40(Pt 2):R354-R368.
- Zeiger E, Haworth S. 1985. Tests with a preincubation modification of the Salmonella/microsome assay. In: Ashby J, de Serres FJ, et al., eds. Progress in mutation research. Vol. 5. Evaluation of short-term tests for carcinogens. Amsterdam, The Netherlands: Elsevier Science Publishers, 187-199.

