

Deriving a health-based guidance value for antimony to support development of UK Drinking Water Standards – further information

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Angrisani, M., Lampa, E., Lisa, M., Matera, C., Marrazzo, R. and Scafuro, M., 1988. Vasomotor reactivity and postnatal exposure to antimony trichloride. Current therapeutic research, 43(1), pp.153-159. [Vasomotor reactivity and postnatal exposure to antimony trichloride](#).

Agency for Toxic Substances and Disease Registry (ATSDR) (2019) Toxicological profile for antimony. U.S. Department of Health and Human Services, Public Health Service, Atlanta, GA. [ATSDR Antimony Tox Profile](#).

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) (2017) Statement on the results of the 2014 survey of metals and other elements in infant foods. [2014infantmetalsurveystatement.pdf](#).

COT (2006) Statement on the results of the 2006 UK Total Diet Study of metals and other elements. [ARCHIVED CONTENT] COT statement on the 2006 UK total diet study of metals and other elements | Food Standards Agency

(nationalarchives.gov.uk).

Elinder CG, Friberg L (1986) Antimony. In: Friberg L, Nordberg GF, Vouk VB, eds. Handbook on the toxicology of metals. Amsterdam, Elsevier, pp. 26–42.

Health Canada (2021) Antimony: Environmental and health assessment. Health Canada, Ottawa. [Guidelines for Canadian Drinking Water Quality: Guideline Technical Document - Antimony - Canada.ca](#).

ICRP. 1981. Metabolic data for antimony. Limits for intakes of radionuclides by workers (ICRP Publication 30, Part 3). International Commission on Radiological Protection. Ann ICRP 6(2/3):46–49.

Kanisawa, M. and Schroeder, H.A., 1969. Life term studies on the effect of trace elements on spontaneous tumours in mice and rats. Cancer Research, 29(4), pp.892- 895. [Life term studies on the effect of trace elements on spontaneous tumors in mice and rats - PubMed](#).

Marmo, E., Matera, M.G., CUPARENCU, B., ROSSI, F., ACAMPORA, R. and VACCA, C., 1987. Prenatal and postnatal metal exposure: effect on vasomotor reactivity development of pups: experimental research with antimony trichloride, thallium sulfate, and sodium metavanadate. Current therapeutic research, 42(5), pp.823-838. [Prenatal and postnatal metal exposure: effect on vasomotor reactivity development of pups: experimental research with antimony trichloride, thallium sulfate, and sodium metavanadate](#).

NTP (2018). Report on carcinogens. National Toxicology Program. National Institute of Environmental Health Sciences. U.S. Department of Health and Human Services, Monograph on Antimony Trioxide.

NTP. 1992. NTP report on the toxicity studies of antimony potassium tartrate in F344/N rats and B6C3F1 mice (drinking water and intraperitoneal injection studies). Research Triangle Park, NC: NTP Tox 11. NIH Publication No. 92-3130.

Poon, R., Chu, I., Lecavalier, P., Valli, V.E., Foster, W., Gupta, S. and Thomas, B., 1998. Effects of antimony on rats following 90-day exposure via drinking water. Food and Chemical Toxicology, 36(1), pp.21-35. [Effects of antimony on rats following 90-day exposure via drinking water - ScienceDirect](#).

Rossi, F., Acampora, R., Vacca, C., Maione, S., Matera, M.G., Servodio, R. and Marmo, E., 1987. Prenatal and postnatal antimony exposure in rats: effect on vasomotor reactivity development of pups. Teratogenesis, carcinogenesis and

mutagenesis, 7(5), pp.491-496. [Prenatal and postnatal antimony exposure in rats: Effect on vasomotor reactivity development of pups - Rossi - 1987 - Teratogenesis, Carcinogenesis, and Mutagenesis - Wiley Online Library.](#)

U.S. EPA. Provisional Peer-Reviewed Toxicity Values for Soluble Antimony Compounds (Various). U.S. Environmental Protection Agency, Washington, DC, EPA/690/R- 08/020F, 2008. [Provisional Peer Reviewed Toxicity Values for Soluble Antimony Compounds \(Various CASRNs\).](#)

Valli, V.E., Poon, R., Chu, I., Gupta, S. and Thomas, B.H., 2000. Subchronic/chronic toxicity of antimony potassium tartrate. Regulatory Toxicology and Pharmacology: RTP, 32(3), pp.337-8. [Subchronic/chronic toxicity of antimony potassium tartrate. - Abstract - Europe PMC.](#)

WHO (2003) Antimony in drinking-water: Background document for development of WHO Guidelines for Drinking-water Quality. World Health Organization, Geneva. [Microsoft Word - Third Edition Antimony.doc.](#)

Schroeder, H.A., Mitchener, M. and Nason, A.P., 1970. Zirconium, niobium, antimony, vanadium and lead in rats: life term studies. The Journal of nutrition, 100(1), pp.59-68.

[Zirconium, niobium, antimony, vanadium and lead in rats: life term studies - PubMed.](#)