

JUSTIFICATION SHEET - ANTIMONY

Parameter	Data in units from original source	Original Source	Calculation for Use in the SNIFFER model	Value for input into the SNIFFER Model
Drinking water Exposure	4.2 ug/l	Max conc in bottled water. FSA, Food survey information sheet, 28/02 (2002). Antimony, Arsenic, Bromate and Nickel contents of bottled water.	Multiply by 2 for average daily consumption of 2l. Divide by 1000 for mg.	8.4E-3 mg/day
Dietary Exposure	-	-	-	-
Oral MDI – Dietary plus drinking water exposure	-	-	-	8.4E-03
Inhalation MDI	1.09 ng/m3	Air Quality archive. Only recorded annual average value for UK in 2003 (Pontardawe)	Divide by 1 million for mg. Multiply by 20 for average adult air intake.	2.18E-5 mg/day
MDI total – addition of Oral and Inhalation MDI			Addition of above	8.42E-3 mg/day
TDI Oral	4E-04 mg/kg.bw/day	www.epa.gov/iris USEPA IRIS database RfD	-	4E-4 mg/kg.bw/day
Index dose (ID) Oral	-	-	-	-
TDI dermal	-	-	-	-
TDI inhal	-	-	-	-
Index Dose (ID) inhalation	-	-	-	-
CASRN	7440-36-0	-	-	7440-36-0
Air diffusion coefficient	-	-	-	-
Water diffusion coefficient	-	-	-	-
Water solubility	-	-	-	-
Experimental organic carbon distribution coefficient (K_{oc})	-	-	-	-
Experimental octanol water partition coefficient (K_{ow}) (log, dimensionless)	-	-	-	-
Relative molecular weight (g mol^{-1})	121.75	www.atsdr.cdc.gov toxicological profile	-	121.75
Vapour pressure at 20°C (Pa)	-	-	-	-
Henry's Constant ($\text{Pa.m}^3.\text{mol}^{-1}$)	-	-	-	-
Henry's Constant (Dimensionless)	-	-	-	-
Soil/plant Bio Concentration Factor (BCF) – leafy	0.2 (dry weight)	Baes et al (1984) Oak Ridge National Laboratory report no. ORNL-5786	Dry weight conversion factor required	0.2
Soil/plant Bio Concentration Factor (BCF) – root	0.03 (dry weight)	Baes et al (1984) Oak Ridge National Laboratory report no. ORNL-5786	Dry weight conversion factor required	0.03