

Chemical	Butylamine (n-Butylamine, 1-Butylamine, 1-Aminobutane)
CAS Number	109-73-9
Category	Category III
Cancer Classification	EPA: Not Evaluated IARC: Not Evaluated NTP: No Report
Proposed HAAS	118.71 ug/m ³
Basis of Proposed HAAS	ACGIH Ceiling 14957.06 ug/m ³
Basis of Value used to derive Proposed HAAS	Critical Effect: Dermal, Ocular and Respiratory Irritation, Headache Study Animal: Human Exposure Route: Inhalation
Dose Extrapolation Method	
Notes	ACGIH notes "...additional industrial experience indicates approximately 5 ppm (14957.06 ug/m ³), may be irritating" per Beard, 1991). Thus, derivation of HAAS assumes ceiling is based on human exposure data.
Additional Tox and/or Occupational Values	VOSHA 1910.1 PEL 15,000 ug/m ³ (5 ppm) [skin] Ceiling NIOSH REL 15,000 ug/m ³ (5 ppm) [skin] Ceiling IDLH 897,423 ug/m ³ (300 ppm)
Comparison Values	
Derivation of HAAS: $\text{HAAS (ug/m}^3\text{)} = \frac{OEL}{UF \times TF}$ <p>UF = 3 for intra-species (inter-individual) variability UF = 10 for lack of NOAEL, use of LOAEL (in this case ceiling level as surrogate) TF = 4.2 to extrapolate from occupational to continuous exposure</p> $= \frac{14957.06}{3 \times 10 \times 4.2}$ $\cong 118.71 \text{ ug/m}^3$	