

Chemical	Acetic anhydride
CAS Number	108-24-7
Category	Category III
Cancer Classification	EPA: Not Evaluated IARC: Not Evaluated NTP: No Report
Proposed HAAS	49.71 ug/m ³
Basis of Proposed HAAS	ACGIH TLV-TWA 20877.3 ug/m ³ (5 ppm)
Basis of Value used to derive Proposed HAAS	Critical Effect: Irritation of Eyes, Mucous Membranes and Skin Study Animal: Human Exposure Route: Inhalation, Industrial Exposure
Dose Extrapolation Method	
Notes	Limited Data Available ACGIH notes potential for temporary or permanent visual impairment, ulceration of nasal mucosa and possible bronchospasms from exposure to higher but undetermined concentrations. Effects from repeated or cumulative exposure have not been identified.
Additional Tox and/or Occupational Values	VOSHA 1910.1 PEL Transitional Limit 20,000 ug/m ³ (5 ppm) TWA Final Ceiling same as Transitional Limit NIOSH REL 20,000 ug/m ³ (5 ppm) Ceiling IDLH 835,092 ug/m ³ (200 ppm)
Comparison Values	
Derivation of HAAS: $\text{HAAS (ug/m}^3\text{)} = \frac{OEL}{UF \times MF \times TF}$ UF = 3 for intra-species (inter-individual) variability UF = 10 for lack of NOAEL, use of LOAEL MF = 3 for limited data TF = 4.2 to extrapolate from occupational to continuous exposure $= \frac{20877.3}{3 \times 10 \times 3 \times 4.2}$ (For purposes of this evaluation, application of two factors of 3 is rounded to 10) $\cong 49.71 \text{ ug/m}^3$	