

Chemical	Diacetone alcohol
CAS Number	123-42-2
Category	Category III
Cancer Classification	EPA: Not Evaluated IARC: Not Evaluated NTP: No Report
Proposed HAAS	113.12 ug/m ³
Basis of Proposed HAAS	Information cited in ACGIH TLV documentation
Basis of Value used to derive Proposed HAAS	Critical Effect: Eye, nose and throat irritation Study Animal: Human Exposure Route: Inhalation, acute exposure
Dose Extrapolation Method	NOAEL,LOAEL
Notes	ACGIH cites 1946 study by Silverman that notes eye irritation in majority of human volunteers exposed to 100 ppm (475,092 ug/m ³) for 15 minutes. Also noted nose and throat irritation. This value serves as starting point for derivation of HAAS.
Additional Tox and/or Occupational Values	VOSHA 1910.1 PEL 240,000 ug/m ³ (50 ppm) TWA NIOSH REL 240,000 ug/m ³ (50 ppm) TWA IDLH 855,656 ug/m ³ (1800 ppm) [10% LEL] ACGIH TLV-TWA 238,000 ug/m ³ (50 ppm)
Comparison Values	
Derivation of HAAS: $HAAS (ug/m^3) = \frac{LOAEL}{UF \times MF \times TF}$ <p>UF = 3 for intra-species (inter-individual) variability (reduced from 10 as is primarily an irritant) UF = 10 for lack of NOAEL, use of LOAEL UF = 10 for less than chronic study/data MF = 3 for limited data TF = 4.2 to extrapolate from occupational to continuous exposure</p> $= \frac{475092}{3 \times 10 \times 10 \times 3 \times 4.2}$ <p>(For purposes of this evaluation, application of two factors of 3 is rounded to 10)</p> $\cong 113.12 \text{ ug/m}^3$	