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| Chemical | 2,6-Dimethyl-4-heptanone (Diisobutyl ketone) |
| CAS Number | 108-83-8 |
| Category | Category III |
| Cancer Classification | EPA: Not Evaluated IARC: Not Evaluated NTP: No Report |
| Proposed HAAS | 34.63 ug/m ³ |
| Basis of Proposed HAAS | ACGIH TLV-TWA 145,000 ug/m ³ (25 ppm) |
| Basis of Value used to derive Proposed HAAS | Critical Effect: Eye irritation Study Animal: Human volunteers Exposure Route: Inhalation, acute exposure |
| Dose Extrapolation Method | NOAEL,LOAEL |
| Notes | Limited data. ACGIH cites study with 12 human volunteers where majority of subjects had some degree of eye irritation and complained of unpleasant odor when exposed to concentrations greater than 25 ppm (145429.45 ug/m ³). This value used as starting point for derivation of standard. |
| Additional Tox and/or Occupational Values | VOSHA 1910.1 PEL: 150,000 ug/m ³ (25 ppm) TWA NIOSH REL: 150,000 ug/m ³ (25 ppm) TWA IDLH: 2,908,589 ug/m ³ (500 ppm) |
| Comparison Values | |
| Derivation of HAAS: $HAAS (ug/m^3) = \frac{OEL}{UF \times MF \times TF}$ <p> UF = 3 for intra-species (inter-individual) variability (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> $= \frac{145429.45}{3 \times 10 \times 10 \times 3 \times 4.2}$ <p>(For purposes of this evaluation, application of two factors of 3 is rounded to 10)</p> $\cong 34.63 \text{ ug/m}^3$ | |