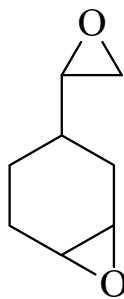




>>Entry Name: 3-Oxiranyl-7-oxabicyclo[4.1.0]heptane, 9CI

Synonym(s): 3-(Epoxyethyl)-7-oxabicyclo[4.1.0]heptane, 8CI. 1,2-Epoxy-4-(epoxyethyl)cyclohexane. 1-Epoxyethyl-3,4-epoxycyclohexane. 4-Vinylcyclohexene dioxide



CAS Registry Number: 106-87-6

Related CAS Registry Numbers(s): 4223-10-3

Molecular Formula: C₈H₁₂O₂

Molecular Weight: 140.182

Accurate Mass: 140.08373

Percentage Composition: C 68.55%; H 8.63%; O 22.83%

Use/Importance: Used to make water-resistant adhesives, corrosion inhibitors and polymer stabilizers; cross-linking agent; ingredient in rocket fuels

Physical Description: Liq.

Melting Point: Mp -55°

Boiling Point: Bp 227°. Bp₅ 88-92°

Solubility: V. sol. H₂O

Density: d₂₀²⁰ 1.099

Refractive Index: n_D²⁷ 1.4760

Hazard & Toxicity: Severe skin irritant. LD₅₀ (rat, orl) 2130 mg/kg, LD₅₀ (rbt, skn) 620 mg/kg. Exp. carcinogen. Exp. reprod. effects

Aldrich: 11015-9

Fluka: 94956

Sigma: V3630

Other: PB V01805

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