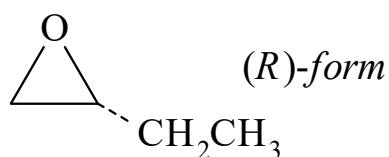




>>Entry Name: Ethyloxirane, 9CI

Synonym(s): 1,2-Epoxybutane. 1-Butene oxide



CAS Registry Number: 106-88-7

Extra CAS Registry Numbers(s): 26249-20-7

Molecular Formula: C₄H₈O

Molecular Weight: 72.107

Accurate Mass: 72.057515

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Hazard & Toxicity: Irritant, highly flammable, fl. p. -15°

Aldrich: 10997-5

Fluka: 19930

>>Variant: (R)-form

CAS Registry Number: 3760-95-0

Molecular Formula: C₄H₈O

Molecular Weight: 72.107

Accurate Mass: 72.057515

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Boiling Point: Bp 59-62°

Optical Rotation: $[\alpha]_D^{16} +12.4$ (c, 5.98 in dioxan)

>>Variant: (S)-form

CAS Registry Number: 30608-62-9

Molecular Formula: C₄H₈O

Molecular Weight: 72.107

Accurate Mass: 72.057515

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Boiling Point: Bp 72°

Optical Rotation: $[\alpha]_D^{16} -12.25$ (c, 6 in dioxan)

>>Variant: (±)-form

CAS Registry Number: 55555-96-9

Molecular Formula: C₄H₈O

Molecular Weight: 72.107

Accurate Mass: 72.057515

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Physical Description: Liq.

Boiling Point: Bp 63°. Bp 45°

Solubility: Sol. H₂O

Density: d_{20}^{20} 0.831

Refractive Index: n_D^{20} 1.3840

Other Data: Undergoes anionic and cationic polym.

References:

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