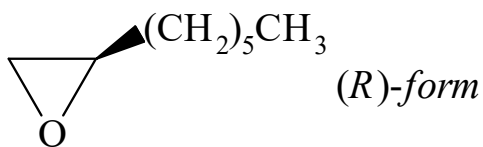




>>Entry Name: Hexyloxirane, 9CI

Synonym(s): 1,2-Epoxyoctane, 8CI. 1-Octene oxide



CAS Registry Number: 2984-50-1

Molecular Formula: $\text{C}_8\text{H}_{16}\text{O}$

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Aldrich: 26025-8

Fluka: 45364

>>Variant: (R)-form

CAS Registry Number: 77495-66-0

Molecular Formula: $\text{C}_8\text{H}_{16}\text{O}$

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Optical Rotation: $[\alpha]_{\text{D}}^{20} +14.5$ (c, 2.5 in EtOH)

Fluka: 45360

>>Variant: (S)-form

CAS Registry Number: 50418-68-3

Molecular Formula: $\text{C}_8\text{H}_{16}\text{O}$

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Optical Rotation: $[\alpha]_{\text{D}}^{20} -14.5$ (c, 2.5 in EtOH)

Fluka: 45366

>>Variant: ($\pm$)-form

CAS Registry Number: 77549-73-6

Molecular Formula: $\text{C}_8\text{H}_{16}\text{O}$

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Physical Description: Liq.

Boiling Point: Bp_{17} 62.5-63°

Density: d^{20} 0.839

Refractive Index: n_{D}^{20} 1.4200

References:

George, D.A. *et al.*, *J. Chem. Eng. Data*, 1975, **20**, 445, (*ir, ms*)

Davies, S.G. *et al.*, *J.C.S. Perkin 2*, 1975, 861, (*cmr*)

Fringuelli, F. *et al.*, *Tet. Lett.*, 1989, **30**, 427, (*synth*)

Cooper, M.S. *et al.*, *Synlett*, 1990, 533, (*synth*)

Hause, B. *et al.*, *Tetrahedron: Asymmetry*, 1993, **4**, 1017, (*synth*)