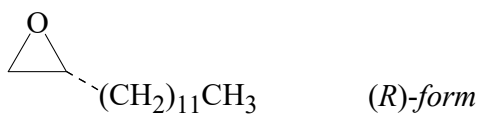




>>Entry Name: Dodecyloxirane, 9CI

Synonym(s): 1,2-Epoxytetradecane



CAS Registry Number: 3234-28-4

Related CAS Registry Numbers(s): 130404-10-3

Molecular Formula: C₁₄H₂₈O

Molecular Weight: 212.375

Accurate Mass: 212.214015

Percentage Composition: C 79.18%; H 13.29%; O 7.53%

Optical Rotation: $[\alpha]_{\text{D}}^{24} +4.31$ (c, 1.42 in CHCl₃) (>95% ee)

Aldrich: 26026-6

>>Variant: (R)-form

CAS Registry Number: 116619-64-8

Molecular Formula: C₁₄H₂₈O

Molecular Weight: 212.375

Accurate Mass: 212.214015

Percentage Composition: C 79.18%; H 13.29%; O 7.53%

Optical Rotation: $[\alpha]_{\text{D}}^{24} +4.31$ (c, 1.42 in CHCl₃) (>95% ee)

>>Variant: (±)-form

CAS Registry Number: 130321-67-4

Molecular Formula: C₁₄H₂₈O

Molecular Weight: 212.375

Accurate Mass: 212.214015

Percentage Composition: C 79.18%; H 13.29%; O 7.53%

Physical Description: Oil

Boiling Point: Bp_{0.4} 95-96°

Refractive Index: n_D²⁰ 1.4408

References:

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Hanzlik, R.F. *et al.*, *J.A.C.S.*, 1976, **98**, 1952, (*synth*, *pmr*)

Yamada, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1991, **64**, 2109, (*synth*)

Savle, P.S. *et al.*, *Tetrahedron: Asymmetry*, 1998, **9**, 1843-1846, (*R-form*)