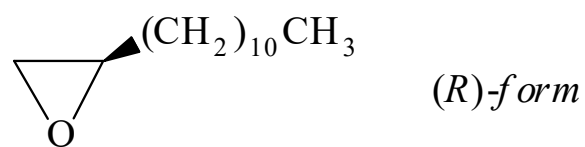




>>Entry Name: Undecyloxirane, 9CI

Synonym(s): 1,2-Epoxytridecane



CAS Registry Number: 1713-31-1

Molecular Formula: C₁₃H₂₆O

Molecular Weight: 198.348

Accurate Mass: 198.198365

Percentage Composition: C 78.72%; H 13.21%; O 8.07%

>>Variant: (R)-form

CAS Registry Number: 59829-81-1

Molecular Formula: C₁₃H₂₆O

Molecular Weight: 198.348

Accurate Mass: 198.198365

Percentage Composition: C 78.72%; H 13.21%; O 8.07%

Boiling Point: Bp₇ 111-113°

Optical Rotation: [α]_D²⁰ +11.8 (c, 1.09 in Et₂O)

Refractive Index: n_D²⁰ 1.4358

>>Variant: (S)-form

CAS Registry Number: 59829-82-2

Molecular Formula: C₁₃H₂₆O

Molecular Weight: 198.348

Accurate Mass: 198.198365

Percentage Composition: C 78.72%; H 13.21%; O 8.07%

Boiling Point: Bp₁₃ 123-125°

Optical Rotation: [α]_D²¹ -11 (c, 1.20 in Et₂O)

Refractive Index: n_D²⁰ 1.4352

References:

Coke, J.L. *et al.*, *J.O.C.*, 1976, **41**, 3516, (*synth*)

Mori, K. *et al.*, *Tetrahedron*, 1985, **41**, 547, (*synth, ir, pmr*)

Matsuyama, K. *et al.*, *Tetrahedron: Asymmetry*, 1999, **10**, 2945-2950, (*S-form, synth, pmr, ir*)