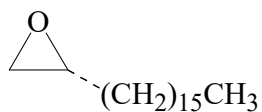




>>Entry Name: Hexadecyloxirane, 9CI

Synonym(s): 1,2-Epoxyoctadecane, 8CI. 1-Octadecene oxide. Vikolox 18



(R)-form

CAS Registry Number: 7390-81-0

Molecular Formula: C₁₈H₃₆O

Molecular Weight: 268.482

Accurate Mass: 268.276615

Percentage Composition: C 80.53%; H 13.51%; O 5.96%

Aldrich: 26023-1

>>Variant: (R)-form

CAS Registry Number: 201041-36-3

Molecular Formula: C₁₈H₃₆O

Molecular Weight: 268.482

Accurate Mass: 268.276615

Percentage Composition: C 80.53%; H 13.51%; O 5.96%

Optical Rotation: $[\alpha]_{\text{D}}^{24} +4.28$ (c, 1.09 in CHCl₃) (>95% ee)

>>Variant: (±)-form

Molecular Formula: C₁₈H₃₆O

Molecular Weight: 268.482

Accurate Mass: 268.276615

Percentage Composition: C 80.53%; H 13.51%; O 5.96%

Use/Importance: Lubricant

Melting Point: Mp 26-26.2°

Boiling Point: Bp_{0.5} 137°

References:

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Parfenov, E.A. *et al.*, *Zh. Prikl. Khim. (Leningrad)*, 1968, **41**, 2517; *J. Appl. Chem. USSR (Engl. Transl.)*, 1968, **41**, 2371, (*synth*)

Nyquist, R.A., *Appl. Spectrosc.*, 1986, **40**, 275, (*ir*)

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