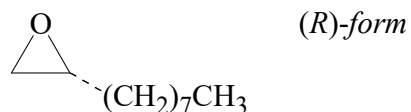




>>Entry Name: Octyloxirane

Synonym(s): 1,2-Epoxydecane, 8Cl. 1-Decene oxide. Vikolox 10



CAS Registry Number: 2404-44-6

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.267

Accurate Mass: 156.151415

Percentage Composition: C 76.86%; H 12.90%; O 10.24%

Aldrich: 26033-9

>>Variant: (R)-form

CAS Registry Number: 67210-36-0

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.267

Accurate Mass: 156.151415

Percentage Composition: C 76.86%; H 12.90%; O 10.24%

Optical Rotation: $[\alpha]_D^{24} +8.29$ (c, 1.35 in CHCl₃) (>95% ee)

>>Variant: (S)-form

CAS Registry Number: 81623-66-7

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.267

Accurate Mass: 156.151415

Percentage Composition: C 76.86%; H 12.90%; O 10.24%

Boiling Point: Bp₅₀ 80-84°. Bp₃₄ 111-112°

Optical Rotation: $[\alpha]_D^{23} -14.7$ (c, 1.44 in Et₂O)

Other Data: No comments given on the boiling point difference

>>Variant: (±)-form

CAS Registry Number: 67210-45-1

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.267

Accurate Mass: 156.151415

Percentage Composition: C 76.86%; H 12.90%; O 10.24%

Use/Importance: Lubricant

Physical Description: Liq.

Boiling Point: Bp₉₅ 125-131°. Bp₃₀ 95-98°

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