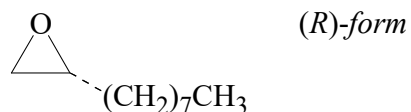




>>Entry Name: Octyloxirane

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



CAS Registry Number: 2404-44-6

Molecular Formula: C<sub>10</sub>H<sub>20</sub>O

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: C<sub>10</sub>H<sub>20</sub>O

Molecular Weight: 156.267

Accurate Mass: 156.151415

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

Optical Rotation:  $[\alpha]_{\text{D}}^{24} +8.29$  (c, 1.35 in CHCl<sub>3</sub>) (>95% ee)

>>Variant: (S)-form

CAS Registry Number: 81623-66-7

Molecular Formula: C<sub>10</sub>H<sub>20</sub>O

Molecular Weight: 156.267

Accurate Mass: 156.151415

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

Boiling Point: Bp<sub>50</sub> 80-84°. Bp<sub>34</sub> 111-112°

Optical Rotation:  $[\alpha]_{\text{D}}^{23} -14.7$  (c, 1.44 in Et<sub>2</sub>O)

Other Data: No comments given on the boiling point difference

>>Variant: (±)-form

CAS Registry Number: 67210-45-1

Molecular Formula: C<sub>10</sub>H<sub>20</sub>O

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: Bp<sub>95</sub> 125-131°. Bp<sub>30</sub> 95-98°

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