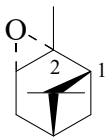




>>Entry Name: **2,3-Epoxy-pinane**

Synonym(s): α -Pinene oxide. 2,7,7-Trimethyl-3-oxatricyclo[4.1.1.0^{2,4}]octane, 9CI



(1*R*,2*R*)-form

CAS Registry Number: 1686-14-2

Related CAS Registry Numbers(s): 94063-22-6 119478-41-0

Molecular Formula: C₁₀H₁₆O

Molecular Weight: 152.236

Accurate Mass: 152.120115

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Biological Source: Occurs in Eucalyptus oil, *Lavendula stoechas*, *Inula racemosa* roots, *Juniphus martinezii* and *Sideritis scardica*

Aldrich: 21830-8

>>Variant: (1*R*,2*R*)-form

CAS Registry Number: 19894-99-6

Molecular Formula: C₁₀H₁₆O

Molecular Weight: 152.236

Accurate Mass: 152.120115

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Boiling Point: Bp₁₀ 61-62°

Optical Rotation: $[\alpha]_{\text{D}}^{28} -106.1$ (neat)

Density: d₂₀²⁰ 0.965

Refractive Index: n_D²⁰ 1.4689

>>Variant: (1*S*,2*S*)-form

CAS Registry Number: 14575-92-9

Molecular Formula: C₁₀H₁₆O

Molecular Weight: 152.236

Accurate Mass: 152.120115

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Boiling Point: Bp₁₀ 59-62°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +100$ (neat). $[\alpha]_{\text{D}}^{25} +96.24$ (c, 5 in EtOH)

Density: d₂₀²⁰ 0.959

Refractive Index: n_D²⁰ 1.4692

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