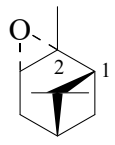
>>**Entry Name: 2,3-Epoxypinane**
Synonym(s): α-Pinene oxide. 2,7,7-Trimethyl-3-oxatricyclo[4.1.1.$0^{2,4}$]octane, 9CI



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

CAS Registry Number: 1686-14-2
Related CAS Registry Numbers(s): 94063-22-6 119478-41-0

Molecular Formula: $C_{10}H_{16}O$
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: $C_{10}H_{16}O$
Molecular Weight: 152.236
Accurate Mass: 152.120115
Percentage Composition: C 78.90%; H 10.59%; O 10.51%
Boiling Point: Bp_{10} 61-62°
Optical Rotation: $[\alpha]_D^{28}$ –106.1 (neat)
Density: d_{20}^{20} 0.965
Refractive Index: n_D^{20} 1.4689

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

CAS Registry Number: 14575-92-9
Molecular Formula: $C_{10}H_{16}O$
Molecular Weight: 152.236
Accurate Mass: 152.120115
Percentage Composition: C 78.90%; H 10.59%; O 10.51%
Boiling Point: Bp_{10} 59-62°
Optical Rotation: $[\alpha]_D^{25}$ +100 (neat). $[\alpha]_D^{25}$ +96.24 (c, 5 in EtOH)
Density: d_{20}^{20} 0.959
Refractive Index: n_D^{20} 1.4692

References:

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