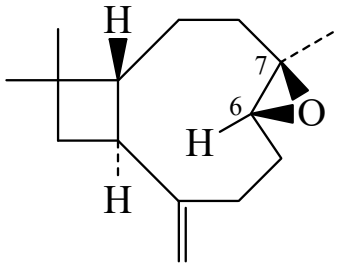
>>**Entry Name: 6,7-Epoxy-3(15)-caryophyllene**
ENTRY UNDER REVIEW
Synonym(s): Epoxycaryophyllene. Caryophyllene oxide. Epoxydihydrocaryophyllene



(6*R*,7*R*)-*form*

CAS Registry Number: 17627-43-9
Related CAS Registry Numbers(s): 13877-94-6

Molecular Formula: $C_{15}H_{24}O$
Molecular Weight: 220.354
Accurate Mass: 220.182715
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Use/Importance: Used in perfumery

>>**Variant:** (6*R*,7*R*)-form
Synonym(s): Caryophyllene α-oxide

CAS Registry Number: 1139-30-6
Type of Compound Code(s): WI5000 VS1730
Molecular Formula: $C_{15}H_{24}O$
Molecular Weight: 220.354
Accurate Mass: 220.182715
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Constit. of oil of cloves (*Eugenia caryophyllata*). Also in oils of *Betula alba, Mentha piperita* and others. Major prod. of oxidn. of KGV69-V
Physical Description: Cryst.
Melting Point: Mp 63.5-64°
Optical Rotation: $[\alpha]_D^{20}$ –79.4 (c, 2.32 in $CHCl_3$)
Hazard & Toxicity: Skin irritant. LD_{50} (rat, orl) >5000 mg/kg

Aldrich: W50964-7
Fluka: 22076
Sigma: C5420

>>**Variant:** (6*S*,7*S*)-form
Synonym(s): Caryophyllene β-oxide

Type of Compound Code(s): VS1730
Molecular Formula: $C_{15}H_{24}O$
Molecular Weight: 220.354
Accurate Mass: 220.182715
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Minor prod. of epoxidn. KGV69-V
Melting Point: Mp 29-31 approx.°
Optical Rotation: $[\alpha]_D$ 0 (c, 2.46 in $CHCl_3$)
Other Data: Warnhoff appears to show the wrong configs.

References:

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