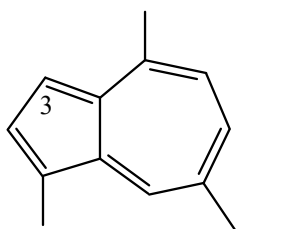




>>Entry Name: 1,4-Dimethyl-7-ethylazulene

Synonym(s): Chamazulene. Camazulene. Lindazulene. Dimethulene



CAS Registry Number: 529-05-5

Type of Compound Code(s): XA1700 XA2250 VS2440

Molecular Formula: C₁₄H₁₆

Molecular Weight: 184.28

Accurate Mass: 184.1252

Percentage Composition: C 91.25%; H 8.75%

Biological Source: Isol. as artifact from various sesquiterpene oils, e.g. from *Achillea* and *Artemisia* spp.

Use/Importance: Antiinflammatory, antispasmodic agent. Shows germicide props.

Physical Description: Blue oil

Boiling Point: Bp₁₂ 161°

Calculated Log P Data: Log P 5.34 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 10000 mg/kg

>>Derivative: Picrate

Physical Description: Cryst. (MeOH)

Melting Point: Mp 116°

>>Derivative: 3,6-Dihydro

Synonym(s): 7-Ethyl-3,6-dihydro-1,4-dimethylazulene

CAS Registry Number: 18454-88-1

Type of Compound Code(s): VS2440

Molecular Formula: C₁₄H₁₈

Molecular Weight: 186.296

Accurate Mass: 186.14085

Percentage Composition: C 90.26%; H 9.74%

Biological Source: Minor constit. of *Artemisia absinthium*

Physical Description: Pale-yellow unstable oil

>>Derivative: 5,6-Dihydro

Synonym(s): 7-Ethyl-5,6-dihydro-1,4-dimethylazulene

CAS Registry Number: 18454-89-2

Type of Compound Code(s): VS2440

Molecular Formula: C₁₄H₁₈

Molecular Weight: 186.296

Accurate Mass: 186.14085

Percentage Composition: C 90.26%; H 9.74%

Biological Source: Minor constit. of *Artemisia absinthium*

Physical Description: Orange-black unstable oil

References:

- Takeda, K. *et al.*, *Chem. Pharm. Bull.*, 1953, **75**, 3865, (*struct*)
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