



Alpha-caryophyllene Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Alpha-caryophyllene

Catalog No.: CFN93582

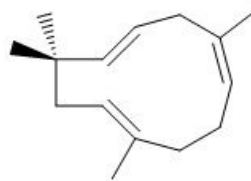
Cas No.: 6753-98-6

Purity: > 95%

M.F: C₁₅H₂₄

M.W: 204.35

Physical Description: Oil



Synonyms: Alpha-humulene; Caryophyllene; (1E,4E,8E)-2,6,6,9-tetramethylcycloundeca-1,4,8-triene; (1E,4E,8Z)-2,6,6,9-tetramethylcycloundeca-1,4,8-triene.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Humulus lupulus*.

[Biological Activity or Inhibitors]

Alpha-humulene and trans-caryophyllene extracted from *S.officinalis* essential oil can inhibit tumor cell growth.^[1]

Alpha-humulene and trans-caryophyllene show marked anti-inflammatory effects, probably by interfering with TNFalpha production .^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetic acid-Methanol-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Hadri A E, Rio M A G D, Sanz J, *et al. An. Real Acad. F.*, 2010, 76(3):343-56.

[2] Passos G F, Fernandes E S, Da C F, *et al. J. Ethnopharmacol.*, 2007, 110(110):323-33.

[3] Junior M R M, Dausch A, Moraes C S, *et al. Food Sci. Tech.*, 2008, 28(1):178-81.

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