Natural Products

ChemFaces

Nerolidol Datasheet

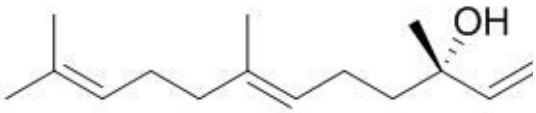
4th Edition (Revised in July, 2016)

[Product Information]

Name: Nerolidol

Catalog No.: CFN98638

Cas No.: 7212-44-4



Purity: > 95%

M.F: $C_{15}H_{26}O$

M.W: 222.37

Physical Description: Oil

Synonyms: Trans-nerolidol;Trans-3,7,11-trimethyl-1,6,10-dodecatrien-3-ol.

[Intended Use]

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

[Source]

The peel of *Citrus maxima*.

[Biological Activity or Inhibitors]

Nerolidol, a sesquiterpene used as a food-flavoring agent and currently under testing as a skin penetration enhancer for the transdermal delivery of therapeutic drugs;nerolidol can inhibit the growth of *Leishmania amazonensis, L. braziliensis, and L. chagasi promastigotes and L. amazonensis amastigotes* with in vitro 50% inhibitory concentrations of 85, 74, 75, and 67 uM, respectively; the in vitro activity of nerolidol against these parasites may prove a useful tool for the development of new drugs for the treatment of leishmaniasis. [1]

Nerolidol shows an inhibitory effect on carcinogenesis of the large bowel.[2]

Nerolidol displays antiulcer activity, as it significantly inhibits the formation of ulcers induced in different animal models. [3]

Nerolidol and eugenol have antifungal effect against Microsporum gypseum in a guinea pig model.[4]

Nerolidol has antifeeding activity for gypsy moth larvae fromMelaleuca leucadendron.[5]

[Solvent]

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

[HPLC Method][6]

Mobile phase: Acetonitrile- 0.05% Acetic acid water,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 ℃;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Arruda D C, D'Alexandri F L, Katzin A M, *et al. Antimicrob. Agents Ch., 2005,*

49(5):1679-87.

[2] Wattenberg L W. *Carcinogenesis, 1991, 12(1):151-2.*

[3] Klopell F C, Lemos M, Sousa J P*, et al. Z. Naturforsch. C, 2007, 62(7-8):537-42.*

[4] Lee S J, Han J I, Lee G S, *et al. Biol. Pharm. Bull., 2007, 30(1):184-8.*

[5] Doskotch R W, Cheng H Y, Odell T M*, et al. J.Chem. Ecol., 1980, 6(4):845-51.*

[6] Liang H M, Guo X L, Feng Y F, *et al. Chinese Journal of Pharmaceutical Analysis, 2007(3):361-3.*

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