Natural Products



Bornyl acetate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bornyl acetate

Catalog No.: CFN90494

Cas No.: 5655-61-8

Purity: >=98%

M.F: C₁₂H₂₀O₂

M.W: 196.29

Physical Description: Oil

Synonyms: L-bornyl acetate; L-Borneol acetate; (-)-[(1S)-bornyl]-acetate.

[Intended Use]

- 1. Reference standards;
- 2. Pharmacological research;
- 3. Synthetic precursor compounds;
- 4. Intermediates & Fine Chemicals;
- 5. Care and daily chemicals;
- 6. Others.

[Source]

The herbs of Pinus yunnanensis.

[Biological Activity or Inhibitors]

Bornyl acetate (main constituent of the proved valerian root oil) is a potentially drug with sedative effects after inhalation.^[1]

Bornyl Acetate and Quercetin have an anti-abortive effect through modulation of immunological balance at maternal-fetal interface.^[2]

Bornyl acetate shows analgesic and anti-inflammatory effects, it can restrain writhing reaction caused by acetic acid glacial, lighten the pain caused by hot-plate, it can also suppress ear swelling caused by dimethylbenzene in mice. ^[3]

(-)-Bornyl acetate is the main volatile constituent in numerous conifer oils and has a camphoraceous, pine-needle-like odor, it is frequently used as the conifer needle composition in soap, bath products, room sprays, and pharmaceutical products;(-)-Bornyl acetate induces autonomic relaxation and reduces arousal level after visual display terminal work without any influences of task performance in low-dose condition.^[4]

[Solvent]

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

[<u>GS Method</u>]^[5]

Inlet temperature : 230 °C; Detector temperature : 250 °C; Carrier gas: Nitrogen ; Flow rate of gas: 1.2L / min; Split ratio was 10:1.

[Storage]

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

[References]

[1] Buchbauer G, Jäger W, Jirovetz L, et al. Die Pharmazie, 1992, 47(8):620-2.

[2] Wang X, Ma A, Shi W, et al. Evid-Based. Compl. Alt., 2011, 2011(2):745262.

[3] Wu X, Li X, Xiao F, et al. Journal of Chinese Medicinal Materials, 2004, 27(6):438-9.

[4] Matsubara E, Fukagawa M, Okamoto T, et al. Biomed. Res., 2011, 32(2):151-7.

[5] Shen Z D. Chinese Journal of Pharmaceutical Analysis, 2008(9):1470-3.

[Contact]

Address:Email: info@chemfaces.comS5-3 Building, No. 111, Dongfeng Rd.,Tel: +86-27-84237783Wuhan Economic and Technological Development Zone,Fax: +86-27-84254680Wuhan, Hubei 430056,Web: www.chemfaces.comChinaTech Support: service@chemfaces.com