

L-Menthol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: L-Menthol

Catalog No.: CFN98123

Cas No.: 2216-51-5

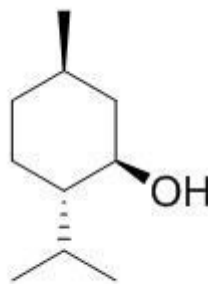
Purity: >=99%

M.F: C₁₀H₂₀O

M.W: 156.27

Physical Description: Cryst.

Synonyms: (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol.



[Intended Use]

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

[Source]

The herbs of *Mentha canadensis* L.

[Biological Activity or Inhibitors]

Menthol is used in analgesic balms and also in foods and oral hygiene products for its fresh cooling sensation, menthol enhances cooling by interacting with the cold-sensitive thermoTRP channel TRPM8, menthol at the highest concentration (40%) reduces mechanical withdrawal thresholds, with no effect at lower concentrations.^[1]

L-Menthol has anti-inflammatory effects, clinical trials investigating the potential therapeutic efficacy of L-menthol for treatment of chronic inflammatory disorders such as bronchial asthma, colitis and allergic rhinitis seem worthwhile.^[2]

L-Menthol has antiperistaltic effect, it sprayed on the gastric mucosa significantly suppresses peristalsis with minimal adverse drug reactions during upper GI endoscopy.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: 0.1% Formic acid in water- Methanol, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30°C;

The wave length of determination: 300 nm.

[Storage]

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

[References]

[1] Klein A H, Sawyer C M, Carstens M I, *et al. Behav. Brain Res.*, 2010 Oct 15;212(2): 179-86.

[2] Juergens U R, Stöber M, Vetter H. *Eur. J. Med. Res.*, 1998 Dec 16;3(12):539-45.

[3] Hiki N, Kaminishi M, Yasuda K, *et al. Gastrointest. Endosc.*, 2011 May;73(5):932-41.

[4] Liu M T, Fang J, Tang L Y, *et al.* *Chinese Journal of Pharmacovigilance*, 2016,13(1): 16-9.

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