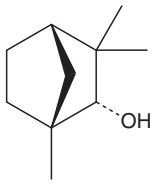
PRODUCT INFORMATION

(+)-Fenchol

Item No. 23162

CAS Registry No.:	2217-02-9
Formal Name:	(1R,2R,4S)-1,3,3-trimethyl-bicyclo[2.2.1]heptan-2-ol
Synonyms:	endo-(+)-Fenchyl Alcohol, (1R)-endo-(+)-Fenchyl Alcohol, (+)-α-Fenchol, D-Fenchyl Alcohol, 1,3,3-Trimethyl-2-norbornanol
MF:	$C_{10}H_{18}O$
FW:	154.3
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(+)-Fenchol is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-fenchol in the solvent of choice, which should be purged with an inert gas. (+)-Fenchol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (+)-fenchol in ethanol and DMSO is approximately 16 mg/ml and approximately 25 mg/ml in DMF.

(+)-Fenchol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (+)-fenchol should first be dissolved in DMF and then diluted with the aqueous buffer of choice. (+)-Fenchol has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(+)-Fenchol is a monoterpenoid that has been found in plants, including *Cannabis*.[1,2] It has been used in the synthesis of other terpenoids and as a chiral building block in organic synthesis of various compounds.[3,4] Formulations containing (+)-fenchol have been used as fragrance ingredients.

Reference

1. Mothana, R.A., Al-Said, M.S., Al-Yahya, M.A., *et al.* GC and GC/MS analysis of essential oil composition of the endemic Soqotraen *Leucas virgata* Balf.f. and its antimicrobial and antioxidant activities. *Int. J. Mol. Sci.* **14(11)**, 23129-23139 (2013).
2. Elzinga, S., Fischedick, J., Podkolinski, R., *et al.* Cannabinoids and terpenes as chemotaxonomic markers in cannabis. *Nat. Prod. Chem. Res.* **3(4)**, 181 (2015).
3. van der Zeijden, A.A.H. and Mattheis, C. Synthesis of chiral O-functionalized isobornyloxy, menthyloxy and fenchyloxy cyclopentadienyl ligands. *Synthesis* **1996(7)**, 847-850 (1996).
4. Yuasa, Y., Watanabe, T., Nagakura, A., *et al.* An improved synthesis of (S)-aspartyl-(7,7-dimethylnorborn-2R-yl)-(S)-alanine methyl ester, a new high intensity artificial sweetener. *Tetrahedron* **48(17)**, 3473-3484 (1992).

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