

2-Heptanol

Chemical Properties

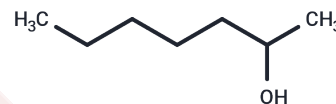
CAS No. : 543-49-7

Formula: C₇H₁₆O

Molecular Weight: 116.2

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	2-Heptanol (s-Heptyl alcohol) is a chemical compound found in the essential oil extracted from the rhizome of <i>Curcuma angustifolia</i> and <i>Curcuma zedoaria</i> . The rhizome essential oil demonstrates noteworthy antimicrobial and antioxidant
Targets(IC50)	Antioxidant,Antibacterial

Solubility Information

Solubility	DMSO: 90 mg/mL (774.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (28.4 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.6059 mL	43.0293 mL	86.0585 mL
5 mM	1.7212 mL	8.6059 mL	17.2117 mL
10 mM	0.8606 mL	4.3029 mL	8.6059 mL
50 mM	0.1721 mL	0.8606 mL	1.7212 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sudipta Jena, et al. Deeper insight into the volatile profile of essential oil of two Curcuma species and their antioxidant and antimicrobial activities. Industrial Crops and Products. Volume 155, 1 November 2020, 112830.

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