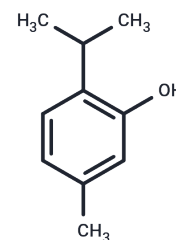


## Thymol

## Chemical Properties

CAS No. :	89-83-8
Formula:	C <sub>10</sub> H <sub>14</sub> O
Molecular Weight:	150.22
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Thymol, also known as Pseudoaspidin, is a principal monoterpene phenol found in the essential oils of plants from the Lamiaceae family, along with several other families including Verbenaceae, Scrophulariaceae, Ranunculaceae, and Apiaceae. This compound exhibits antioxidant, anti-inflammatory, antibacterial, and antifungal properties.
Targets(IC50)	Apoptosis, Antibacterial, Antifungal

## Solubility Information

Solubility	DMSO: 250 mg/mL (1664.23 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: 2 mg/mL (13.31 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

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	1mg	5mg	10mg
1 mM	6.6569 mL	33.2845 mL	66.569 mL
5 mM	1.3314 mL	6.6569 mL	13.3138 mL
10 mM	0.6657 mL	3.3285 mL	6.6569 mL
50 mM	0.1331 mL	0.6657 mL	1.3314 mL

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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

Botelho M A , Nogueira N A P , Bastos G M , et al. Antimicrobial activity of the essential oil from *Lippia sidoides*, carvacrol and thymol against oral pathogens[J]. Brazilian Journal of Medical and Biological Research, 2007, 40(3): 349-356.

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