

## Docosane

## Chemical Properties

CAS No. : 629-97-0

Formula: C<sub>22</sub>H<sub>46</sub>

Molecular Weight: 310.6

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Docosane is a natural product that can be used in the synthesis of structural composites with thermal energy storage or release capability.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Soluble DMSO: 2.5 mg/mL (8.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2196 mL	16.0979 mL	32.1958 mL
5 mM	0.6439 mL	3.2196 mL	6.4392 mL
10 mM	0.322 mL	1.6098 mL	3.2196 mL
50 mM	0.0644 mL	0.322 mL	0.6439 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

Fredi G, et, al. Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. *Materials (Basel)*. 2019 Apr 19;12(8):1286.

Wu Z K, Li H Y, Zhu Y L, et al. Neuroprotective and anti-inflammatory effects of eicosane on glutamate and NMDA-induced retinal ganglion cell injury. *International Journal of Ophthalmology*. 2024, 17(4): 638.

Asakawa Y, et, al. Volatile components of selected species of the liverwort genera *Frullania* and *Schusterella* (Frullaniaceae) from New Zealand, Australia and South America: a chemosystematic approach. *Phytochemistry*. 2003 Feb;62(3):439-52.

Wu Z K, Li H Y, Zhu Y L, et al. Neuroprotective and anti-inflammatory effects of eicosane on glutamate and NMDA-induced retinal ganglion cell injury. *International Journal of Ophthalmology*. 2024, 17(4): 638.

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