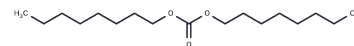


Dicaprylyl carbonate

Chemical Properties

CAS No. :	1680-31-5
Formula:	C17H34O3
Molecular Weight:	286.45
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	Dicaprylyl carbonate (Dimethyl carbonate) is a solid fat derived from plants and a dry emollient. Dimethyl carbonate has good skin compatibility and comprehensive properties, such as a sunscreen filter with the ability to dissolve and disperse.
Targets(IC50)	Others
In vitro	The gloss of dioctyl carbonate was 389.8.

Solubility Information

Solubility	DMSO: 50 mg/mL (174.55 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: 1 mg/mL (3.49 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	3.491 mL	17.4551 mL	34.9101 mL
5 mM	0.6982 mL	3.491 mL	6.982 mL
10 mM	0.3491 mL	1.7455 mL	3.491 mL
50 mM	0.0698 mL	0.3491 mL	0.6982 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

JumatSalimon, et al. Industrial development and applications of plant oils and their biobased oleochemicals.

Arabian Journal of Chemistry, Volume 5, Issue 2, April 2012, Pages 135-145.

Hélène de Clermont-Gallerande, et al. Relations between the sensory properties and fat ingredients of lipsticks.

OCL 2018, 25(5), D502.

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