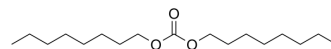


Dicaprylyl carbonate

Cat. No.:	HY-135737		
CAS No.:	1680-31-5		
Molecular Formula:	C ₁₇ H ₃₄ O ₃		
Molecular Weight:	286.45		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 12.5 mg/mL (43.64 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4910 mL	17.4551 mL	34.9101 mL
	5 mM	0.6982 mL	3.4910 mL	6.9820 mL
	10 mM	0.3491 mL	1.7455 mL	3.4910 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (4.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 1.25 mg/mL (4.36 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (4.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dicaprylyl carbonate, a solid, plant-derived fat, is a dry emollient. Dicaprylyl carbonate has excellent dermatological compatibility and a comprehensive performance profile, such as solubilizing and dispersing ability for sun-care filters^[1].

In Vitro

Dicaprylyl carbonate has a respective shininess value of 389.8. Dicaprylyl carbonate is evaluated as having a matte to satiny finish^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Appl Toxicol. 2021 Feb 26.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. JumalSalimon, 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.

[2]. Hélène de Clermont-Gallerande, et al. Relations between the sensory properties and fat ingredients of lipsticks. OCL 2018, 25(5), D502.

Caution: Product has not been fully validated for medical applications. For research use only.

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