

1-Hexadecanol

Chemical Properties

CAS No. : 36653-82-4
Formula: C16H34O
Molecular Weight: 242.44
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	1-Hexadecanol (Hexadecan-1-ol), a fatty alcoholis, is utilized for making other chemicals.
Targets(IC50)	Endogenous Metabolite
In vitro	1-Hexadecanol may cause mild to moderate irritation to the skin and eyes. However, its toxicity is low, and it does not induce genotoxic effects. Additionally, it is readily biodegradable by the human body.
In vivo	1-Hexadecanol has a wide range of applications; it is utilized in the production of detergents, as a moisturizer in cosmetics, and as a lubricant for industrial parts. Additionally, it facilitates the mixing of oil and water.

Solubility Information

Solubility	Ethanol: 63 mg/mL (259.86 mM),Sonication is recommended. H2O: 62 mg/mL (255.73 mM),Sonication is recommended. DMSO: 5.63 mg/mL (23.2 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	4.1247 mL	20.6237 mL	41.2473 mL
5 mM	0.8249 mL	4.1247 mL	8.2495 mL
10 mM	0.4125 mL	2.0624 mL	4.1247 mL
50 mM	0.0825 mL	0.4125 mL	0.8249 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.

Reference

Guo W, Sheng J, Zhao H, Feng X. Microb Cell Fact. 2016 Feb 1;15(1):24.

Feng X, Lian J, Zhao H. Metab Eng. 2015 Jan;27:10-9. doi: 10.1016/j.ymben.2014.10.001. Epub 2014 Oct 28.

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