

1-Decanol

Chemical Properties

CAS No. : 112-30-1

Formula: C₁₀H₂₂O

Molecular Weight: 158.28

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	1-Decanol inhibits various bacteria and fungi, including Candida albicans, Penicillium, Aspergillus niger, Bacillus subtilis, Propionibacterium, and others.
Targets(IC50)	Antibacterial,Antifungal

Solubility Information

Solubility	DMSO: 180 mg/mL (1137.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.3179 mL	31.5896 mL	63.1792 mL
5 mM	1.2636 mL	6.3179 mL	12.6358 mL
10 mM	0.6318 mL	3.159 mL	6.3179 mL
50 mM	0.1264 mL	0.6318 mL	1.2636 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

- Arndt JH, Brüll R, Macko T, Garg P, Tacx JCJF. High performance liquid chromatography of polyolefin plastomers/elastomers (ethylene/1-octene copolymers) - Comparison of different solvent systems. *J Chromatogr A*. 2019 Jan 25. pii: S0021-9673(19)30115-3.
- Chung KH, Kim H, Park YK, Kim BH, Kim SJ, Jung SC. Decyl Glucoside Synthesized by Direct Glucosidation of D-Glucose Over Zeolite Catalysts and Its Estrogenicity as Non-Endocrine Disruptive Surfactant. *J Nanosci Nanotechnol*. 2019 Feb 1;19(2):1172-1175.
- Pacaud B, Leclercq L, Dechézelles JF, Nardello-Rataj V. Hybrid Core-Shell Nanoparticles by "Plug and Play" Self-Assembly. *Chemistry*. 2018 Dec 3;24(67):17672-17676.
- Arbabi M, Badi HN, Labbafi M, Mehrafarin A, Saboki E. Morphophysiological and Phytochemical Variability in Some Wild Populations of *Ducrosia anethifolia* from Iran. *Chem Biodivers*. 2018 Dec;15(12):e1800301.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481