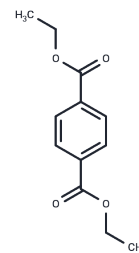


Diethyl terephthalate

Chemical Properties

CAS No. :	636-09-9
Formula:	C ₁₂ H ₁₄ O ₄
Molecular Weight:	222.24
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	Diethyl terephthalate is an agent that is used in the production of polyesters.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4996 mL	22.4982 mL	44.9964 mL
5 mM	0.8999 mL	4.4996 mL	8.9993 mL
10 mM	0.450 mL	2.2498 mL	4.4996 mL
50 mM	0.090 mL	0.450 mL	0.8999 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

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- Benjamin S, Kamimura N, Takahashi K, Masai E. *Achromobacter denitrificans* SP1 efficiently utilizes 16 phthalate diesters and their downstream products through protocatechuate 3,4-cleavage pathway. *Ecotoxicol Environ Saf*. 2016 Dec;134P1:172-178. doi: 10.1016/j.ecoenv.2016.08.028. Epub 2016 Sep 10. PubMed PMID: 27619352.
- Lu R, Lu F, Chen J, Yu W, Huang Q, Zhang J, Xu J. Production of Diethyl Terephthalate from Biomass-Derived Muconic Acid. *Angew Chem Int Ed Engl*. 2016 Jan 4;55(1):249-53. doi: 10.1002/anie.201509149. Epub 2015 Nov 23. PubMed PMID: 26592149.
- Alin J, Hakkarainen M. Combined chromatographic and mass spectrometric toolbox for fingerprinting migration from PET tray during microwave heating. *J Agric Food Chem*. 2013 Feb 13;61(6):1405-15. doi: 10.1021/jf3047847. Epub 2013 Feb 5. PubMed PMID: 23343184.

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