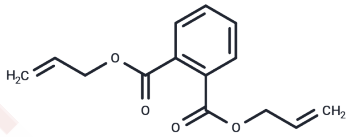
Data Sheet (Cat.No.T20333)

TargetMol

Diallyl phthalate

Chemical Properties



CAS No. : 131-17-9

Formula: C14H14O4

Molecular Weight: 246.26

Storage: Store under nitrogen
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Diallyl phthalate (NSC 7667) is a widely used cross-linking agent for unsaturated polyesters and can cause fetal toxicity at certain concentrations.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 8 mg/mL (32.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0607 mL	20.3037 mL	40.6075 mL
5 mM	0.8121 mL	4.0607 mL	8.1215 mL
10 mM	0.4061 mL	2.0304 mL	4.0607 mL
50 mM	0.0812 mL	0.4061 mL	0.8121 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

Fan YL, et al. Simultaneous determination of 22 phthalate esters in polystyrene food-contact materials by ultra-performance convergence chromatography with tandem mass spectrometry. J Sep Sci. 2018 Jul;41(14):2993-3002.
Zhang S, et al. Solid phase microextraction of phthalic acid esters from vegetable oils using iron (III)-based metal-organic framework/graphene oxide coating. Food Chem. 2018 Oct 15;263:258-264.
Ahmadi E, Yousefzadeh S, Ansari M, Ghaffari HR, Azari A, Miri M, Mesdaghinia A, Nabizadeh R, Kakavandi B, Ahmadi P, Badi MY, Gholami M, Sharafi K, Karimaei M, Ghoochani M, Brahmand MB, Mohseni SM, Sarkhosh M, Rezaei S, Asgharnia H, Dehghanifard E, Jafari B, Mortezapour A, Moghaddam VK, Mahmoudi MM, Taghipour N. Performance, kinetic, and biodegradation pathway evaluation of anaerobic fixed film fixed bed reactor in removing phthalic acid esters from wastewater. Sci Rep. 2017 Feb 20;7:41020. doi: 10.1038/srep41020. PubMed PMID: 28216654; PubMed Central PMCID: PMC5316953.
Liu N, Wen F, Li F, Zheng X, Liang Z, Zheng H. Inhibitory mechanism of phthalate esters on Karenia brevis. Chemosphere. 2016 Jul;155:498-508. doi: 10.1016/j.chemosphere.2016.04.082. Epub 2016 May 2. PubMed PMID: 27151426.

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