

## Bis(2-ethylhexyl) terephthalate

## Chemical Properties

CAS No. : 6422-86-2

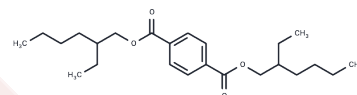
Formula: C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>

Molecular Weight: 390.56

Keep away from moisture

Storage: 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	Bis(2-ethylhexyl) terephthalate is a synthetic plasticizer for polyvinyl chloride (PVC), used in the synthesis of artificial leather films and rubber.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 250 mg/mL (640.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (25.6 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5604 mL	12.8021 mL	25.6043 mL
5 mM	0.5121 mL	2.5604 mL	5.1209 mL
10 mM	0.256 mL	1.2802 mL	2.5604 mL
50 mM	0.0512 mL	0.256 mL	0.5121 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

- Moldoveanu SC, et al. Critical evaluation of several techniques for the analysis of phthalates and terephthalates: Application to liquids used in electronic cigarettes. *J Chromatogr A*. 2018 Mar 9;1540:77-86.
- Alves A, et al. Case Study on Screening Emerging Pollutants in Urine and Nails. *Environ Sci Technol*. 2017 Apr 4;51(7):4046-4053.
- Grymel Aleksander, et al. Sustainable method for the synthesis of alternative Bis (2-Ethylhexyl) terephthalate plasticizer in the presence of protic ionic liquids. *Catalysts* 10.4 (2020): 457.
- Kdimy Ayoub, et al. Isolation of Bis (2-Ethylhexyl) Terephthalate and Bis (2-Ethylhexyl) Phthalate from *Capparis spinosa* L. Leaves. (2022).

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