

Dibutyl carbonate

Chemical Properties

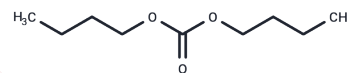
CAS No. : 542-52-9

Formula: C₉H₁₈O₃

Molecular Weight: 174.24

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	Dibutyl carbonate is a useful organic compound for research related to life sciences. The catalog number is T2152 and the CAS number is 542-52-9.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (315.66 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	5.7392 mL	28.6961 mL	57.3921 mL
5 mM	1.1478 mL	5.7392 mL	11.4784 mL
10 mM	0.5739 mL	2.8696 mL	5.7392 mL
50 mM	0.1148 mL	0.5739 mL	1.1478 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

- Lewitus, D., Smith, K., Shain, W., Bolikal, D., & Kohn, J. (2011). The fate of ultrafast degrading polymeric implants in the brain. *Biomaterials*, 32(24), 5543-5550. doi: 10.1016/j.biomaterials.2011.04.052
- Ma, Z., Hong, Y., Nelson, D., Pichamuthu, J., Leeson, C., & Wagner, W. (2011). Biodegradable Polyurethane Ureas with Variable Polyester or Polycarbonate Soft Segments: Effects of Crystallinity, Molecular Weight, and Composition on Mechanical Properties. *Biomacromolecules*, 12(9), 3265-3274. doi: 10.1021/bm2007218

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