

## Dibutyl maleate

## Chemical Properties

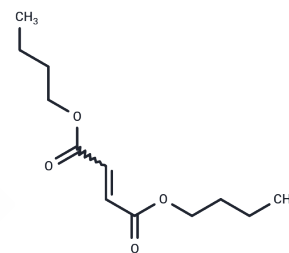
CAS No. : 105-76-0

Formula: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 228.28

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 maleate (DBM (VAN)) is a diester of the Maleic Acid and can be used as an intermediate of the synthesis of antibacterial compounds.
Targets(IC50)	Others
In vivo	Dibutyl maleate can enhance contact sensitization to Fluorescein isothiocyanate in mice [2].

## Solubility Information

Solubility	DMSO: 55 mg/mL (240.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.76 mM),Sonication is recommended. <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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.3806 mL	21.9029 mL	43.8059 mL
5 mM	0.8761 mL	4.3806 mL	8.7612 mL
10 mM	0.4381 mL	2.1903 mL	4.3806 mL
50 mM	0.0876 mL	0.4381 mL	0.8761 mL

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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

Clasen SH, et al. Synthesis and characterization of cassava starch with maleic acid derivatives by etherification reaction. Carbohydr Polym. 2018 Jan 15;180:348-353.

Matsuoka T, et, al. Dibutyl Maleate and Dibutyl Fumarate Enhance Contact Sensitization to Fluorescein Isothiocyanate in Mice. Biol Pharm Bull. 2016;39(2):272-7.

Hu D, et al. Evaluation of CO<sub>2</sub>-philicity of poly(vinyl acetate) and poly(vinyl acetate-alt-maleate) copolymers through molecular modeling and dissolution behavior measurement. J Phys Chem B. 2015 Feb 19;119(7):3194-204.

Sasseville D, et al. Allergic contact dermatitis from occupational exposure to dibutyl maleate. Contact Dermatitis. 2009 May;60(5):298-300.

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