

## Methacrylic anhydride

## Chemical Properties

CAS No. : 760-93-0

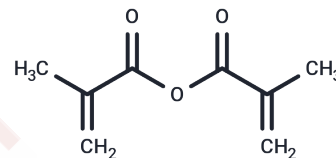
Formula: C<sub>8</sub>H<sub>10</sub>O<sub>3</sub>

Molecular Weight: 154.16

Pure form: -20°C for 3 years | In solvent: -80°C for 1

Storage: year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Methacrylic anhydride is a polymerizable 1,6-diolefin compound that can be radical-initiated to form soluble cyclohexane polymers. Methacrylic anhydride can spontaneously polymerize via vinyl groups, which is inhibited by 2-6-di-tert-butyl 4-methylphenol. Methacrylic anhydride can be used to study novel hydrogels. Methacrylic anhydride can be used to investigate new types of hydrogels.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50 mg/mL (324.34 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 (12.97 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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	1mg	5mg	10mg
1 mM	6.4868 mL	32.4338 mL	64.8677 mL
5 mM	1.2974 mL	6.4868 mL	12.9735 mL
10 mM	0.6487 mL	3.2434 mL	6.4868 mL
50 mM	0.1297 mL	0.6487 mL	1.2974 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

Jesse CHH, et al. Copolymerization of methacrylic anhydride with vinyl monomers. Journal of Polymer Science. November 1961, 55(161):197-213.

Becquart F, et al. Functionalization of a poly(vinyl alcohol) in the solid state with a swelling agent by methacrylic anhydride. Polymer Chemistry. 1 April 2004, 42(7):1618-1629.

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