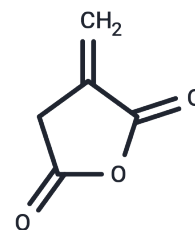


Itaconic anhydride

Chemical Properties

CAS No. :	2170-03-8
Formula:	C ₅ H ₄ O ₃
Molecular Weight:	112.08
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Itaconic anhydride (ITA) is a biobased material that is obtained from renewable resources. It is widely used in metal adhesion promoter, synthetic resin improver, esterification agent, herbicide, insecticide.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45 mg/mL (401.5 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	8.9222 mL	44.611 mL	89.222 mL
5 mM	1.7844 mL	8.9222 mL	17.8444 mL
10 mM	0.8922 mL	4.4611 mL	8.9222 mL
50 mM	0.1784 mL	0.8922 mL	1.7844 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

Pehere, A., Xu, S., Thompson, S., Hillmyer, H., & Hoye, T. (2016). Diels-Alder Reactions of Furans with Itaconic Anhydride: Overcoming Unfavorable Thermodynamics. *Org Lett*, 3(18), 2584-7. doi: 10.1021/acs.orglett.6b00929

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