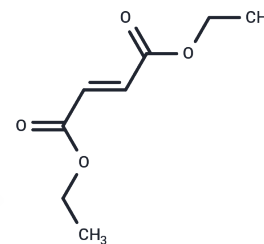


Diethyl fumarate

Chemical Properties

CAS No. :	623-91-6
Formula:	C ₈ H ₁₂ O ₄
Molecular Weight:	172.18
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	Diethyl fumarate, a decomposition product of the pesticide Malathion, causes nonimmune contact urticaria on the skin.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 2 mg/mL (11.62 mM), Sonication is recommended. DMSO: 55 mg/mL (319.43 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: 3.3 mg/mL (19.17 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

	1mg	5mg	10mg
1 mM	5.8079 mL	29.0394 mL	58.0788 mL
5 mM	1.1616 mL	5.8079 mL	11.6158 mL
10 mM	0.5808 mL	2.9039 mL	5.8079 mL
50 mM	0.1162 mL	0.5808 mL	1.1616 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

Jr FA, et, al. Gas chromatographic determination of diethyl fumarate in malathion extracts and preparations used for control of body lice. J Econ Entomol. 1968 Apr;61(2):457-9.

Lahti A, et, al. Contact urticaria from diethyl fumarate. Contact Dermatitis. 1985 Mar;12(3):139-40.

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