

Nonanoic acid

Chemical Properties

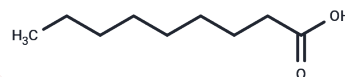
CAS No. : 112-05-0

Formula: C₉H₁₈O₂

Molecular Weight: 158.24

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	Nonanoic acid (Nonoic acid) is a fatty acid which occurs naturally as esters are the oil of pelargonium. Synthetic esters, such as methyl nonanoate, are used as flavorings. Pelargonic acid is an organic compound composed of a nine-carbon chain terminating in a carboxylic acid. It is an oily liquid with an unpleasant, rancid odor. It is nearly insoluble in water, but well soluble in chloroform and ether.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 45 mg/mL (284.38 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 (12.64 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	6.3195 mL	31.5976 mL	63.1951 mL
5 mM	1.2639 mL	6.3195 mL	12.639 mL
10 mM	0.632 mL	3.1598 mL	6.3195 mL
50 mM	0.1264 mL	0.632 mL	1.2639 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

Kuzmina N, et al. Assessment of irritant skin reactions using electrical impedance--a comparison between 2 laboratories. Contact Dermatitis. 2003 Jul;49(1):26-31.

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