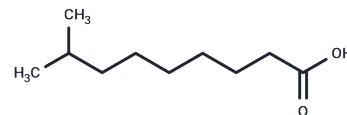


8-methyl Nonanoic Acid

Chemical Properties

CAS No. :	5963-14-4
Formula:	C ₁₀ H ₂₀ O ₂
Molecular Weight:	172.2646
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Capsaicin, the chemical that imparts the spicy-hot quality of chili peppers, is produced by the fruits of plants belonging to the Capsicum family. 8-methyl Nonanoic acid is an immediate precursor of capsaicin as well as a by-product of capsaicin degradation.[1] Addition of 5 mM of 8-methyl nonanoic acid significantly increases the yield of capsaicin in both immobilized and freely suspended cells of <i>C. frutescens</i> . [2] Capsaicin has reported antimicrobial properties, however isocaproic acid can act as a growth substrate in certain bacterial strains.[3]
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Solubility Information

Solubility	Ethanol: 10 mg/mL DMSO: 10 mg/mL DMF: 10 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8052 mL	29.0259 mL	58.0518 mL
5 mM	1.161 mL	5.8052 mL	11.6104 mL
10 mM	0.5805 mL	2.9026 mL	5.8052 mL
50 mM	0.1161 mL	0.5805 mL	1.161 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.

Reference

Kaga, H., Miura, M., and Orito, K. A facile procedure for synthesis of capsaicin. The Journal of Organic Chemistry 54, 3477-3478 (1989).

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