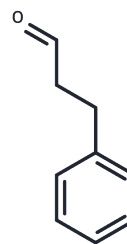


3-Phenylpropanal

Chemical Properties

CAS No. :	104-53-0
Formula:	C ₉ H ₁₀ O
Molecular Weight:	134.18
Storage:	Store at low temperature 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	3-Phenylpropanal (Phenylpropyl aldehyde) is a RIFM flavor ingredient and can be used to make perfume. 3-Phenylpropanal is the main ingredient in acaricides. 3-Phenylpropanal can be used as a fly attractant. 3-Phenylpropanal can be used as an insecticide.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (372.63 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	7.4527 mL	37.2634 mL	74.5268 mL
5 mM	1.4905 mL	7.4527 mL	14.9054 mL
10 mM	0.7453 mL	3.7263 mL	7.4527 mL
50 mM	0.1491 mL	0.7453 mL	1.4905 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

Casey CP, et al. Reversal of enantioselectivity in the hydroformylation of styrene with [2S,4S-BDPP]Pt(SnCl₃)Cl at high temperature arises from a change in the enantioselective-determining step. *J Am Chem Soc.* 2004;126(17): 5585-5592.

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Watkins AL, et al. Origin of pressure effects on regioselectivity and enantioselectivity in the rhodium-catalyzed hydroformylation of styrene with (S,S,S)-BisDiazaphos. *J Am Chem Soc.* 2010;132(30):10306-10317.

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