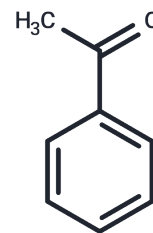


Acetophenone

Chemical Properties

CAS No. :	98-86-2
Formula:	C ₈ H ₈ O
Molecular Weight:	120.15
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	Acetophenone (Phenylethanone) is used in chemical synthesis and as a fragrance.
Targets(IC50)	Others,Antifungal

Solubility Information

Solubility	DMSO: 25 mg/mL (208.07 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 (16.65 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	8.3229 mL	41.6146 mL	83.2293 mL
5 mM	1.6646 mL	8.3229 mL	16.6459 mL
10 mM	0.8323 mL	4.1615 mL	8.3229 mL
50 mM	0.1665 mL	0.8323 mL	1.6646 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

Api A M , Belsito D , Botelho D , et al. RIFM fragrance ingredient safety assessment, acetophenone, CAS Registry Number 98-86-2[.]. Food and Chemical Toxicology, 2018:S0278691518304241-.

Ewa, Żyłańczyk-Duda, Agata, et al. Reductive capabilities of different cyanobacterial strains towards acetophenone as a model substrate - Prospect of applications for chiral building blocks synthesis.[.]. Bioorganic chemistry, 2019.

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