

2-Nonanone

Chemical Properties

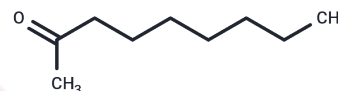
CAS No. : 821-55-6

Formula: C₉H₁₈O

Molecular Weight: 142.24

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	2-Nonanone (Heptyl methyl ketone) is an endogenous metabolite, an antagonist of CYP1A2 (Potency = 35.6 μM), and is used as a flavor in the food industry.
Targets(IC50)	Cytochromes P450
In vitro	2-Nonanone exhibits inhibitory effects against various plant pathogenic fungi (e.g., <i>Monilinia</i> spp. and <i>Botrytis cinerea</i>) in vitro[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.0304 mL	35.1519 mL	70.3037 mL
5 mM	1.4061 mL	7.0304 mL	14.0607 mL
10 mM	0.703 mL	3.5152 mL	7.0304 mL
50 mM	0.1406 mL	0.703 mL	1.4061 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

Calvo, H., Mendiara, I., Arias, E., Gracia, A. P., Blanco, D., & Venturini, M. E. (2020). Antifungal activity of the volatile organic compounds produced by *Bacillus velezensis* strains against postharvest fungal pathogens. *Postharvest Biology and Technology*, 166, 111208.

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