

4-methylnonan-5-ol

Chemical Properties

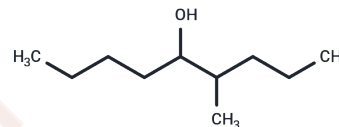
CAS No. : 154170-44-2

Formula: C₁₀H₂₂O

Molecular Weight: 158.28

Storage: Keep away from moisture, Store under nitrogen
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	4-methylnonan-5-ol is a pheromone of red palm weevils and can be used to capture red palm weevils and reduce their harm to agriculture.
Targets(IC50)	Others, Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.3179 mL	31.5896 mL	63.1792 mL
5 mM	1.2636 mL	6.3179 mL	12.6358 mL
10 mM	0.6318 mL	3.159 mL	6.3179 mL
50 mM	0.1264 mL	0.6318 mL	1.2636 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

- Aziz, A.T. Red palm weevil, *Rhynchophorus ferrugineus*, a significant threat to date palm tree, global invasions, consequences, and management techniques. *J Plant Dis Prot* 131, 9–26 (2024).
- Loulou, A., et al. Interactions between microorganisms associated with red palm weevil, *Rhynchophorus ferrugineus*, in Tunisia. *Euro-Mediterr J Environ Integr* 8, 493–505 (2023).
- Ramirez-Lucas P, et al. Chemical identification, electrophysiological and behavioral activities of the pheromone of *Metamasius hemipterus* (Coleoptera: Curculionidae). *Bioorg Med Chem*. 1996 Mar;4(3):323-30.

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