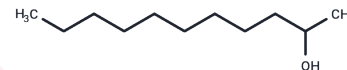


## 2-Undecanol

## Chemical Properties

CAS No. :	1653-30-1
Formula:	C <sub>11</sub> H <sub>24</sub> O
Molecular Weight:	172.31
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-Undecanol (Methyl nonyl carbinol) is a male specific compound extracted from aeration of live <i>Lobiopa insularis</i> beetles. 2-undecanol is a flower emitted volatile, used by various species of Hymenoptera as a pheromone component[1].
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 99 mg/mL (574.55 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: 3.3 mg/mL (19.15 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	5.8035 mL	29.0175 mL	58.0349 mL
5 mM	1.1607 mL	5.8035 mL	11.607 mL
10 mM	0.5803 mL	2.9017 mL	5.8035 mL
50 mM	0.1161 mL	0.5803 mL	1.1607 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

Antonioni A C Moliterno, et al. The Male Produced Aggregation Pheromone of a Strawberry Sap Beetle, *Lobiopa Insularis* (Coleoptera: Nitidulidae). *J Chem Ecol.* 2017 Jun;43(6):550-556.

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