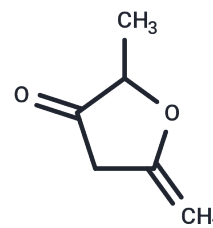


## 2,5-Dimethyl-3(2H)-furanone

## Chemical Properties

CAS No. :	14400-67-0
Formula:	C <sub>6</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight:	112.13
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2,5-Dimethyl-3(2H)-furanone (2,5-Dimethyl-2,3-dihydrofuran-3-one) is a non-genotoxic flavoring substance [1].
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 99 mg/mL (882.9 mM),Sonication is recommended. H2O: 1 g/mL,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 (29.43 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	8.9182 mL	44.5911 mL	89.1822 mL
5 mM	1.7836 mL	8.9182 mL	17.8364 mL
10 mM	0.8918 mL	4.4591 mL	8.9182 mL
50 mM	0.1784 mL	0.8918 mL	1.7836 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

EFSA Panel on Food Contact Materials, Enzymes, Flavourings and Processing Aids. Scientific Opinion on Flavouring Group Evaluation 220 Revision 3 (FGE.220Rev3): Consideration of genotoxic potential for  $\alpha,\beta$ -unsaturated 3(2H)-Furanones from subgroup 4.4 of FGE.19. 2015.

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