

## 3-Methyl-2-cyclopenten-1-one

## Chemical Properties

CAS No. :	2758-18-1
Formula:	C <sub>6</sub> H <sub>8</sub> O
Molecular Weight:	96.13
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3-Methyl-2-cyclopenten-1-one, used as a food additive to enhance the flavor of meat and meat products at 2-5 ppm, demonstrated gastric cytoprotective activity when administered orally to male Wistar rats.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 90 mg/mL (936.23 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 (34.33 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	10.4026 mL	52.0129 mL	104.0258 mL
5 mM	2.0805 mL	10.4026 mL	20.8052 mL
10 mM	1.0403 mL	5.2013 mL	10.4026 mL
50 mM	0.2081 mL	1.0403 mL	2.0805 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

Hatai M, et al. trans-2-Pentenal, an Active Compound in Cigarette Smoke, Identified via Its Ability to Form Adducts with Glutathione. Chem Pharm Bull (Tokyo). 2019;67(9):1000-1005.

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