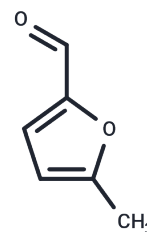


## 5-Methylfurfural

## Chemical Properties

CAS No. :	620-02-0
Formula:	C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>
Molecular Weight:	110.11
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	5-Methylfurfural (5-Methyl-2-furaldehyde) has been identified as one of the volatile flavor compounds in tamarind, Dutch Coffee, barrel-aged wines and deep fat-fried soybeans.
Targets(IC50)	Others,COX

## Solubility Information

Solubility	DMSO: 50 mg/mL (454.09 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: 2 mg/mL (18.16 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	9.0818 mL	45.4091 mL	90.8183 mL
5 mM	1.8164 mL	9.0818 mL	18.1637 mL
10 mM	0.9082 mL	4.5409 mL	9.0818 mL
50 mM	0.1816 mL	0.9082 mL	1.8164 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

Spillman PJ, et al. Formation and Degradation of Furfuryl Alcohol, 5-Methylfurfuryl Alcohol, Vanillyl Alcohol, and Their Ethyl Ethers in Barrel-Aged Wines. J Agric Food Chem. 1998 Feb 16;46(2):657-663.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481