

## 2-Pentylfuran

## Chemical Properties

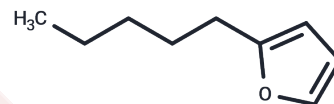
CAS No. : 3777-69-3

Formula: C<sub>9</sub>H<sub>14</sub>O

Molecular Weight: 138.21

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	2-Pentylfuran (2-N-Pentylfuran) is a compound obtained by isolating the volatile oil of potato vapors at atmospheric pressure.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50 mg/mL (361.77 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 (14.47 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	7.2354 mL	36.1768 mL	72.3537 mL
5 mM	1.4471 mL	7.2354 mL	14.4707 mL
10 mM	0.7235 mL	3.6177 mL	7.2354 mL
50 mM	0.1447 mL	0.7235 mL	1.4471 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

Sybre M , Scotter J M , Chambers S T . Investigation into the production of 2-Pentylfuran by *Aspergillus fumigatus* and other respiratory pathogens in vitro and human breath samples[J]. *Medical Mycology*, 2008, 46(3):209.

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