

## 1,2,3,4-Tetramethylbenzene

## Chemical Properties

CAS No. :	488-23-3
Formula:	C <sub>10</sub> H <sub>14</sub>
Molecular Weight:	134.218
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	1,2,3,4-Tetramethylbenzene is a benzene derivative widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 80.00 mg/mL (596.05 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: 3.30 mg/mL (24.59 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	7.4505 mL	37.2523 mL	74.5045 mL
5 mM	1.4901 mL	7.4505 mL	14.9009 mL
10 mM	0.745 mL	3.7252 mL	7.4505 mL
50 mM	0.149 mL	0.745 mL	1.4901 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

Kralj P, et al. Remarkable effect of water on functionalization of the phenyl ring in methyl-substituted benzene derivatives with F-TEDA-BF<sub>4</sub>. J Org Chem. 2006 May 12;71(10):3880-8.

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