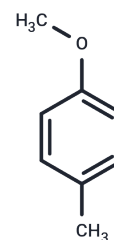


## 4-Methylanisole

## Chemical Properties

CAS No. :	104-93-8
Formula:	C <sub>8</sub> H <sub>10</sub> O
Molecular Weight:	122.17
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	4-Methylanisole is an aromatic ether compound containing both a methoxy and a methyl group. 4-Methylanisole occurs naturally in the essential oils of plants such as star anise and fennel, as well as in various natural flavorings. 4-Methylanisole is used in the synthesis of pharmaceutical intermediates, active ingredients for pesticides, and flavorings for food and personal care products. 4-Methylanisole can also be used directly in fragrance formulations.
Targets(IC50)	Others
In vivo	Methods: To investigate the pharmacokinetics of a single dose of 4-methylanisole, adult male Wistar rats were administered a single oral dose of 4-methylanisole (16, 64, 250 mg/kg). Blood samples were collected at 0, 0.5, 1, 2, 4, and 20 hours post-administration for analysis. Results: 4-Methylanisole was rapidly absorbed and reduced the weight of the spleen and thymus in adult rats. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (654.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	8.1853 mL	40.9266 mL	81.8532 mL
5 mM	1.6371 mL	8.1853 mL	16.3706 mL
10 mM	0.8185 mL	4.0927 mL	8.1853 mL
50 mM	0.1637 mL	0.8185 mL	1.6371 mL

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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

Brandon EF, et al. Implementation of toxicokinetics in toxicity studies--Toxicokinetics of 4-methylanisole and its metabolites in juvenile and adult rats. Regul Toxicol Pharmacol. 2015;73(1):55-64.

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