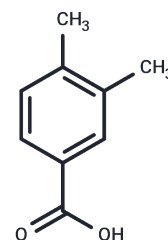


## 3,4-Dimethylbenzoic acid

## Chemical Properties

CAS No. :	619-04-5
Formula:	C <sub>9</sub> H <sub>10</sub> O <sub>2</sub>
Molecular Weight:	150.17
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	3,4-Dimethylbenzoic acid (1-Carboxy-3,4-dimethylbenzene) is a product of dimethylbenzoate metabolism by Rhodococcus rhodochrous N75.
Targets(IC50)	Others, Drug Metabolite
In vitro	3,4-Dimethylbenzoic acid is oxidized via the intermediate 3,4-dimethylcatechol by 4-methylbenzoic acid (p-toluic acid) cells of Rhodococcus rhodochrous N75[1].

## Solubility Information

Solubility	DMSO: 88 mg/mL (586 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6591 mL	33.2956 mL	66.5912 mL
5 mM	1.3318 mL	6.6591 mL	13.3182 mL
10 mM	0.6659 mL	3.3296 mL	6.6591 mL
50 mM	0.1332 mL	0.6659 mL	1.3318 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

Stefan Schmidt, et al. Isolation and identification of two novel butenolides as products of dimethylbenzoate metabolism by

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