

## Allyl Methyl Sulfide

## Chemical Properties

CAS No. : 10152-76-8

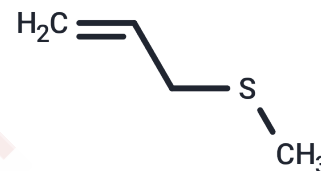
Formula: C<sub>4</sub>H<sub>8</sub>S

Molecular Weight: 88.17

Keep away from direct sunlight

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	Allyl Methyl Sulfide is a bioactive organosulfur compound found in garlic with antibacterial, antioxidant, and anticancer activities.
Targets(IC50)	NF-κB,Endogenous Metabolite,Antibacterial,transporter

## Solubility Information

Solubility	DMSO: 55 mg/mL (623.79 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 (22.68 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	11.3417 mL	56.7086 mL	113.4173 mL
5 mM	2.2683 mL	11.3417 mL	22.6835 mL
10 mM	1.1342 mL	5.6709 mL	11.3417 mL
50 mM	0.2268 mL	1.1342 mL	2.2683 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

Sujithra K, et al. Allyl methyl sulfide, an organosulfur compound alleviates hyperglycemia mediated hepatic oxidativestress and inflammation in streptozotocin - induced experimental rats. Biomed Pharmacother. 2018 Nov; 107:292-302.

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