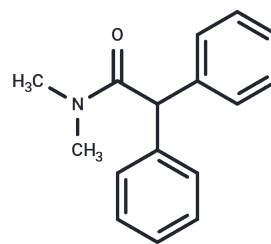


## Diphenamid

## Chemical Properties

CAS No. :	957-51-7
Formula:	C <sub>16</sub> H <sub>17</sub> NO
Molecular Weight:	239.31
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	Diphenamid is a chemical compound from the group of acetamides and a herbicide. The effect is based on the inhibition of acetyl-CoA carboxylase.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1787 mL	20.8934 mL	41.7868 mL
5 mM	0.8357 mL	4.1787 mL	8.3574 mL
10 mM	0.4179 mL	2.0893 mL	4.1787 mL
50 mM	0.0836 mL	0.4179 mL	0.8357 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

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- Yang X, Guschina IA, Hurst S, Wood S, Langford M, Hawkes T, Harwood JL. The action of herbicides on fatty acid biosynthesis and elongation in barley and cucumber. *Pest Manag Sci*. 2010 Jul;66(7):794-800. doi: 10.1002/ps.1944. PubMed PMID: 20533380.
- Liang HC, Li XZ, Yang YH, Sze KH. Comparison of the degradations of diphenamid by homogeneous photolysis and heterogeneous photocatalysis in aqueous solution. *Chemosphere*. 2010 Jun;80(4):366-74. doi: 10.1016/j.chemosphere.2010.04.054. Epub 2010 May 21. PubMed PMID: 20494398.
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