

N-Methylpyrrolidone

Chemical Properties

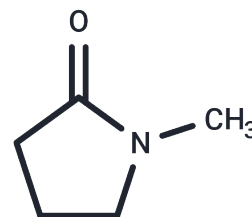
CAS No. : 872-50-4

Formula: C₅H₉NO

Molecular Weight: 99.13

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	N-Methylpyrrolidone (1-Methyl-2-pyrrolidinone) is a five-membered cyclic amide and a widely used industrial organic polar solvent in the manufacture of adhesives, paints, fuels, and pharmaceuticals.
Targets(IC50)	Others
In vivo	N-methylpyrrolidone produces skin irritation in humans and is teratogenic in rats. The molecular mechanisms underlying the biodegradation of N-methylpyrrolidone (NMP) are unknown.

Solubility Information

Solubility	DMSO: 50 mg/mL (504.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	10.0878 mL	50.4388 mL	100.8776 mL
5 mM	2.0176 mL	10.0878 mL	20.1755 mL
10 mM	1.0088 mL	5.0439 mL	10.0878 mL
50 mM	0.2018 mL	1.0088 mL	2.0176 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

Claudia Julieta Solís-González, et al. Novel Metabolic Pathway for N-Methylpyrrolidone Degradation in Alicyclophilus sp. Strain BQAppl Environ Microbiol. 2017 Dec 15;84(1):e02136-17.

Jing Wang, et al. Nitrate stimulation of N-Methylpyrrolidone biodegradation by Paracoccus pantotrophus: Metabolite mechanism and Genomic characterization. Bioresour Technol. 2019 Dec;294:122185.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481