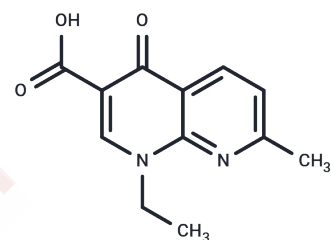


## Nalidixic acid

## Chemical Properties

CAS No. :	389-08-2
Formula:	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	232.24
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	Nalidixic acid (NSC-82174) is a synthetic 1, 8-naphthyridine antimicrobial agent with a limited bacteriocidal spectrum. It is an inhibitor of the A subunit of bacterial DNA GYRASE.
Targets(IC50)	Antibacterial, Antibiotic, Topoisomerase

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 5.63 mg/mL (24.24 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	4.3059 mL	21.5295 mL	43.0589 mL
5 mM	0.8612 mL	4.3059 mL	8.6118 mL
10 mM	0.4306 mL	2.1529 mL	4.3059 mL
50 mM	0.0861 mL	0.4306 mL	0.8612 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

Emmerson AM, Jones AM. J Antimicrob ChemOthers. 2003 May;51 Suppl 1:13-20.

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