



## Technical Data Sheet

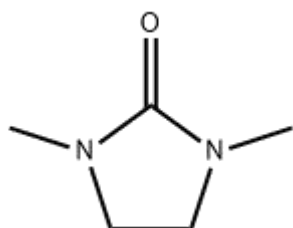
Chemical name: 1,3-Dimethyl-2-imidazolidinone

CAS No.:80-73-9

Molecular formula:C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O

Molecular weight:114.15

Structural formula:



### Sodium sulfonate Properties

Items	Index
Appearance	Colorless and transparent liquid
Color	≤25
Purity by GC (%)	≥99.5
Water (%)	≤0.1



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Refractive index(25°C)	1.468 -1.473
PH (10% water)	7.0-8.0

## Application

1,3-Dimethyl-2-imidazolinone (DMI) has a wide range of uses in multiple fields.

First of all, as a highly functional reaction solvent, it is used in the polymer synthesis process and can help produce high-quality polyamide materials.

Secondly, DMI plays an important role in the pharmaceutical industry. It is used as a pharmaceutical intermediate and is a key solvent in the synthesis of various organic compounds. It is indispensable for drug manufacturing and research and development.

In addition, DMI, as an important organic solvent, is widely used in the synthesis of fine chemicals, including chemical, pharmaceutical, pesticide and dye industries. In the field of chemical industry, DMI participates in many chemical reactions, especially playing a decisive role in the synthesis of chemical drugs, agricultural chemicals and fine chemicals.

Finally, DMI is also used in polymer synthesis, the production of high-energy battery electrolytes, inkjet inks, water-based inks, catalysts, pharmaceutical synergists and special detergents. Especially in industrially advanced regions such as the United States, Western Europe and Japan, the application of DMI in these



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fields is particularly significant and has made important contributions to the progress of related industries.

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