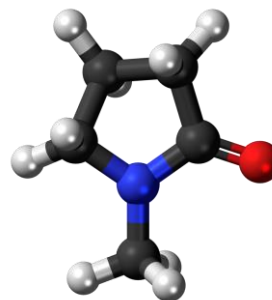


# Specification

## 1-Methyl-2-Pyrrolidinone (NMP)

Ultra pure Analytical Reagent



<b>Catalog No :</b>	UP-100NMP	<b>Exp :</b>	6 months after Mfg.
<b>CAS No :</b>	872-50-4	<b>Packaging :</b>	1000ML in Plastic Bottle
<b>Grade :</b>	Ultra pure	<b>Identified uses</b>	Laboratory Reagent
<b>Empirical Formula :</b>	C <sub>5</sub> H <sub>9</sub> NO	<b>Description :</b>	For Trace Metal Analysis
<b>Density :</b>	1.023~1.028 g/cm <sup>3</sup> (20 °C)	<b>Storage Condition :</b>	Store at 4~8°C

### 1. Chemical properties

Item		Spec.
Purity	% (as G.C)	≥99.5
Color	(APHA)	≤50
Water	% (by Karl Fisher)	≤0.1

### 2. Cation traces

[Unit : ppt]

Element	Spec.
Al (Aluminum)	≤100
As (Arsenic)	≤100
Au (Gold)	≤100
Ba (Barium)	≤100
Be (Beryllium)	≤100
Bi (Bismuth)	≤100
Ca (Calcium)	≤100
Cd (Cadmium)	≤100
Co (Cobalt)	≤100
Cr (Chromium)	≤100
Cu (Copper)	≤100
Fe (Iron)	≤100
Ga (Gallium)	≤100
Ge (Germanium)	≤100
Hf (Hafnium)	≤100
Mg (Magnesium)	≤100
In (Indium)	≤100
K (Potassium)	≤100
Li (Lithium)	≤100
Mn (Manganese)	≤100

Na (Sodium)	≤100
Nb (Niobium)	≤100
Ni (Nickel)	≤100
Pb (Lead)	≤100
Pd (Palladium)	≤100
Pt (Platinum)	≤100
Sb (Antimony)	≤100
Se (Selenium)	≤100
Sn (Tin)	≤100
Sr (Strontium)	≤100
Ta (Tantalum)	≤100
Te (Tellurium)	≤100
Ti (Titanium)	≤100
Th (Thorium)	≤100
Tl (Thallium)	≤100
U (Uranium)	≤100
W (Tungsten)	≤100
Zn (Zinc)	≤100
V (Vanadium)	≤100
Zr (Zirconium)	≤100

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ICP-MS: Determination after evaporation to dryness with ICP-MS

ICP-MS\*: Determination with ICP-MS

GFAAS\*\*: Determination with graphite furnace atomic absorption spectrometry

Actual analysis values are subject to unavoidable systematic variations in this concentration range. Each metallic impurity level guaranteed to be 10 ppt or less. Open and use in a clean environment of CLASS 10 or higher. This product is for laboratory analysis and research purpose only. Keep tightly capped and stored under the conditions stated above. Products are tested by validated methods specified in the manufacturer's quality system. The manufacturer warrants that its products shall conform to the description of such as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express implied, including any implied warranty of merchantability of fitness for any particular purpose.

<b>For use in Laboratory Analysis.</b>
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