



# YOUNG'S CORPORATION

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## N-Methyl-2-pyrrolidone

Formula: C<sub>5</sub>H<sub>9</sub>NO

Molecular weight: 99.1

Product Number: 584384

CAS Registry Number: 872-50-4

### Description

N-Methyl-2-pyrrolidone is a colorless to slightly yellow liquid, with a faint amine odor. NMP is miscible with water and conventional organic solvents. It is the cyclization product of 4-Methyl-Aminobutyric acid.

### Safety

Care should be used when handling NMP. Skin contact should be avoided. Contact can result in irritation; prolonged contact can result in redness and dermatitis. Butyl rubber or FEP Teflon gloves are recommended when handling NMP. A good skin cream should be used after washing the affected area. As with all solvents, the workplace should be well ventilated and safety goggles must be worn.

Always refer to the Material Safety Data Sheet for detailed information on safety.

### Application

Electronic Grade: For higher end, low impurity level applications:

- lithium ion batteries
- photoresist stripper
- epoxy deflashing
- wafer degreasing
- coating developer

Standard Grade:

- petrochemical applications
- extraction/recovery of acetylene and butadiene
- dehydration of natural gas
- pesticide
- pigment dispersion
- synthetic plastic elements
- dyeing fibers and leather
- synthesis medium for high molecular weight polymer
- synthetic fiber spinning medium
- lube oil processing

Product Specification	Value	Test Method
Assay, % minimum	99.5	G.C.
Water, % maximum	0.05	K.F.
Color, APHA maximum	50	Pt/Co
Butyrolactone, % maximum	-	G.C.
Foreign matter	none	

EL – Electronics Grade meets additional specifications. These include:	
Total amines, ppm maximum	50
Chloride, ppm maximum	0.5
Phosphate, ppm maximum	1
Aluminum, ppm maximum	100
Antimony, ppm maximum	100
Arsenic, ppm maximum	100
Boron, ppm maximum	100
Calcium, ppm maximum	100
Chromium, ppm maximum	100
Copper, ppm maximum	100
Gold, ppm maximum	100
Iron, ppm maximum	100
Lead, ppm maximum	100
Magnesium, ppm maximum	100
Manganese, ppm maximum	100
Nickel, ppm maximum	100
Potassium, ppm maximum	100
Sodium, ppm maximum	100
Tin, ppm maximum	100
Titanium, ppm maximum	100
Zinc, ppm maximum	100