

N-Methylpyrrolidone

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NMP · Technical Data Sheet

Product name	N-Methylpyrrolidone	Abbreviation	NMP
CAS No.	872-50-4	EC No.	212-828-1
Molecular formula	C ₅ H ₉ NO	Molecular weight	99.13 g/mol

Product description. A colourless to light-yellow transparent liquid used as a high-performance polar solvent and extraction medium in industrial processing.

1 Key physical data

Appearance	Colourless to light-yellow transparent liquid	Water solubility	100 wt%
pH	7-10, 10% aqueous solution	Melting point	-24 °C
Boiling point	202 °C	Flash point	95 °C, closed cup
Relative density	1.03	Viscosity	1.65 cP at 25 °C

2 Quality specification

Product-grade limits. Batch-specific COA is provided for individual shipment release.

Test item	Typical method	Unit	Reagent	Electronic	Industrial	Ordinary
N-Methylpyrrolidone content	GC	% w/w	≥ 99.9	≥ 99.9	≥ 99.8	≥ 99.5
Water	—	% w/w	≤ 0.01	≤ 0.02	≤ 0.05	≤ 0.10
Colour	—	Hazen	≤ 10	≤ 15	≤ 25	≤ 30

3 Applications

Lithium-ion batteries, polymer materials, pharmaceutical and agrochemical synthesis, photoresists, printed inks, coatings, and liquid-crystal or semiconductor cleaning applications.

4 Product information

This Technical Data Sheet presents key product and quality information for business-to-business evaluation. Product selection should be based on the intended process, formulation and applicable customer requirements.

5 Packaging, storage and documentation

Standard packaging	1,000 kg, 200 kg, 25 kg, 10 kg and 4 kg galvanized iron or plastic packaging; 25-tonne stainless-steel ISO tank may be arranged for bulk supply.
Storage conditions	Store tightly closed in a cool, dry, well-ventilated place away from direct sunlight. Keep away from strong oxidizers, strong reducers, strong acids and strong bases.
Shelf life	12 months unopened under normal cool and dry storage conditions.
Batch documentation	Batch-specific Certificate of Analysis (COA) available for shipment release. Current SDS/MSDS available on request.
Safety and transport	For safety, handling, storage, transport and emergency measures, refer to the current SDS/MSDS applicable to the supplied product and destination.

Technical-document note. The specification values in this sheet apply to the selected product grade. Product data are subject to revision. For safety information and shipment-specific results, refer to the current SDS/MSDS and the batch-specific COA.

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