



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

(N-Methylpyrrolidone, NMP)

Issue Date: 26 FEB 2026 Quality Release Date: 26 FEB 2026

Product Name

N-Methylpyrrolidone (NMP) N - 甲基吡咯烷酮

Product Information

Product Number NMP-20260226

Batch Number NMP-SH2026022601

Brand SIGALD

CAS Number 872-50-4

MDL Number MFCD00003183

Formula C₅ H₉ NO

Formula Weight 99.13 g/mol

Form Colorless transparent liquid, slight amine odor

Test Results

Test	Specification (Industrial Grade Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Colorless transparent liquid, no turbidity/precipitate	Conforms	-	Visual Inspection (25°C)
Assay (NMP)	≥ 99.5%	99.85%	%	Gas Chromatography (GC)
Water Content	≤ 0.05%	0.02%	%	Karl Fischer Titration
Acidity (as HCOOH)	≤ 0.005%	0.001%	%	Alkaline Titration with Phenolphthalein
Color (APHA)	≤ 10	4	-	Platinum-Cobalt Colorimetric Method
Density (25°C)	1.026 ~ 1.030 g/cm ³	1.028	g/cm ³	Hydrometer Method
Refractive Index (25°C)	1.466 ~ 1.468	1.467	-	Abbe Refractometer
Boiling Point (760mmHg)	201 ~ 203°C	202°C	°C	Distillation Method
Heavy Metals (Pb)	≤ 1 ppm	0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Evaporation Residue	≤ 0.001%	0.0002%	%	Gravimetric Method (105°C Drying)

Certification

This batch of product has been tested in accordance with industrial grade standards for N-Methylpyrrolidone (NMP) and meets all specified requirements. It is qualified for use in chemical synthesis, electronic cleaning, polymer processing and coating manufacturing fields.