

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-21 10:23:33

Date of Next Testing: 2026-05-21 10:23:33

Product Name: **1-Methyl-2-pyrrolidinone**

CAS Number: 872-50-4

Specifications & Purity: electronic grade, ≥99.9%

Lot #: E2514117

SKU #: **M103246**

Version: **0**

Analysis #: **484049**

Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.03 (%)	0.01100 %
Refractive index n _{20/D}	1.468-1.472	1.47090
Hazen	0-25	0.00000
Sodium(Na)	0-10 (ppb)	0.00000 ppb
Molybdenum(Mo)	0-10 (ppb)	0.16700 ppb
Calcium(Ca)	0-5 (ppm)	0.04370 ppm
total diol	0-20 (ppm)	0.00000 ppm
Cadmium(Cd)	0-10 (ppb)	0.07000 ppb
Purity(GC)	99.9-100 (%)	99.93300 %
Lithium(Li)	0-10 (ppb)	0.00000 ppb
Potassium(K)	0-10 (ppb)	0.00000 ppb
Magnesium(Mg)	0-10 (ppb)	0.00000 ppb
Sulfate(SO ₄ ²⁻)	0-0.05 (%)	0.00000 %
Zinc(Zn)	0-10 (ppb)	2.59400 ppb
Nickel(Ni)	0-10 (ppb)	0.00000 ppb
(NO ₃)Nitrate	0-0.05 (ppm)	0.00000 ppm
Copper(Cu)	0-10 (ppb)	0.00000 ppb
Cobalt(Co)	0-10 (ppb)	0.00000 ppb
Aluminum(Al)	0-10 (ppb)	0.00000 ppb
Manganese(Mn)	0-10 (ppb)	0.00000 ppb
Chloride(Cl ⁻)	0-0.05 (ppm)	0.00600 ppm
Silver(Ag)	0-10 (ppb)	0.00000 ppb
Chromium(Cr)	0-10 (ppb)	0.00000 ppb
Lead(Pb)	0-10 (ppb)	0.11600 ppb
Phosphate(PO ₄ ³⁻)	0-0.05 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
Iron(Fe)	0-10 (ppb)	1.20900 ppb
Total Amine	0-20 (ppm)	18.00000 ppm
Appearance (M103246)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager