

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-11 14:06:25

Date of Next Testing: 2026-09-11 14:06:25

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

CAS Number: 872-50-4

Specifications & Purity: electronic grade, ≥99.9%

Lot #: K2428398

SKU #: **M103246**

Version: **0**

Analysis #: **570491**

Storage Temperature: Protected from light, Argon charged, Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.03 (%)	0.01 %
Refractive index n _{20/D}	1.468-1.472	1.47
Hazen	0-25	2.90
Sodium(Na)	0-10 (ppb)	0.00 ppb
Molybdenum(Mo)	0-10 (ppb)	0.50 ppb
Phosphate(PO ₄)	0-0.05 (ppm)	0.01 ppm
Iron(Fe)	0-10 (ppb)	5.20 ppb
Calcium(Ca)	0-5 (ppm)	2.10 ppm
total diol	0-20 (ppm)	1.96 ppm
Cadmium(Cd)	0-10 (ppb)	0.80 ppb
Purity(GC)	99.9-100 (%)	99.95 %
Lithium(Li)	0-10 (ppb)	5.40 ppb
Potassium(K)	0-10 (ppb)	2.40 ppb
Magnesium(Mg)	0-10 (ppb)	3.10 ppb
Sulfate(SO ₄ ²⁻)	0-0.05 (%)	0.01 %
Zinc(Zn)	0-10 (ppb)	4.20 ppb
Nickel(Ni)	0-10 (ppb)	1.90 ppb
(NO ₃)Nitrate	0-0.05 (ppm)	0.01 ppm
Copper(Cu)	0-10 (ppb)	2.90 ppb
Cobalt(Co)	0-10 (ppb)	1.60 ppb
Aluminum(Al)	0-10 (ppb)	3.20 ppb
Manganese(Mn)	0-10 (ppb)	3.20 ppb
Chloride(Cl ⁻)	0-0.05 (ppm)	0.01 ppm
Silver(Ag)	0-10 (ppb)	0.90 ppb
Total Amine	0-20 (ppm)	1.20 ppm



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Parameter	Limit Values	Result
Chromium(Cr)	0-10 (ppb)	1.99 ppb
Lead(Pb)	0-10 (ppb)	1.88 ppb
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