

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-02-28 15:44:06
 Date of Next Testing: 2027-02-28 15:44:06
 Product Name: **1-Methyl-2-pyrrolidinone**
 CAS Number: 872-50-4
 Specifications & Purity: electronic grade, ≥99.9%
 Lot #: B2606002
 SKU #: **M103246**
 Version: **0**
 Analysis #: **563437**
 Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.03 (%)	0.02820 %
Refractive index n _{20/D}	1.468-1.472	1.47080
Hazen	0-25	0.00000
Molybdenum(Mo)	0-10 (ppb)	0.00000 ppb
Phosphate(PO ₄)	0-0.05 (ppm)	0.00000 ppm
Iron(Fe)	0-10 (ppb)	0.00000 ppb
Calcium(Ca)	0-5 (ppm)	0.03710 ppm
Cadmium(Cd)	0-10 (ppb)	0.00000 ppb
Purity(GC)	99.9-100 (%)	99.96700 %
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)	0.00000 ppb
Nickel(Ni)	0-10 (ppb)	0.00000 ppb
(NO ₃)Nitrate	0-0.05 (ppm)	0.00000 ppm
Copper(Cu)	0-10 (ppb)	0.67700 ppb
Cobalt(Co)	0-10 (ppb)	0.00000 ppb
Aluminum(Al)	0-10 (ppb)	1.90000 ppb
Manganese(Mn)	0-10 (ppb)	0.00000 ppb
Chloride(Cl ⁻)	0-0.05 (ppm)	0.02500 ppm
Silver(Ag)	0-10 (ppb)	0.00000 ppb
Chromium(Cr)	0-10 (ppb)	1.59800 ppb
Lead(Pb)	0-10 (ppb)	0.23500 ppb
Sodium(Na)	0-10 (ppb)	1.17000 ppb

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
total diol	0-20 (ppm)	20.00000 ppm
Total Amine	0-20 (ppm)	20.00000 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