

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-15 15:32:57
 Date of Next Testing: 2026-12-14 15:32:57
 Product Name: **1-Methyl-2-pyrrolidinone(NMP)**
 CAS Number: 872-50-4
 Specifications & Purity: $\geq 99.5\%$ (GC)
 Lot #: L2213407
 SKU #: **M103248**
 Version: **2**
 Analysis #: **160441**
 Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.54500 %
Refractive index n ₂₀ /D	1.468-1.472	1.47090
Water by Karl Fischer	0-0.02 (%)	0.01320 %
Free amine	0-0.001 (%)	0.00000 %
Density (20°C)	1.032-1.036	1.03270
Specific gravity	1.025-1.035	1.03084
Appearance (M103248)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager