

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-24 16:36:34

Date of Next Testing: 2027-11-23 16:36:34

Product Name: **1-Methyl-2-pyrrolidinone(NMP)**

CAS Number: 872-50-4

Specifications & Purity:  $\geq 99.5\%$ (GC)

Lot #: K2322158

SKU #: **M103248**

Version: **2**

Analysis #: **299315**

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

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.82000 %
Refractive index n <sub>20</sub> /D	1.468-1.472	1.47080
Water by Karl Fischer	0-0.02 (%)	0.00960 %
Free amine	0-0.001 (%)	0.00061 %
Density (20°C)	1.032-1.036	1.03250
Specific gravity	1.025-1.035	1.03260
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