

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-11 17:58:05  
Date of Next Testing: 2027-09-10 17:58:05  
Product Name: **1-Methyl-2-pyrrolidinone(NMP)**  
CAS Number: 872-50-4  
Specifications & Purity:  $\geq 99.5\%$ (GC)  
Lot #: I2307661  
SKU #: **M103248**  
Version: **2**  
Analysis #: **268652**  
Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.73000%
Refractive index n <sub>20</sub> /D	1.468-1.472	1.47060
Free amine	0-0.001 (%)	0.00088%
Density (20°C)	1.032-1.036	1.03510
Specific gravity	1.025-1.035	1.03324
Water by Karl Fischer	0-0.02 (%)	0.01220%
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