

## Certificate of Analysis

Date of Testing: 2024-03-22 14:07:11

Date of Next Testing: 2028-03-21 14:07:11

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

CAS Number: 872-50-4

Specifications & Purity: for HPLC,  $\geq 99.5\%$

Lot #: G2425007

SKU #: **M100590**

Version: **0**

Analysis #: **331652**

Storage Temperature: Argon charged

| Parameter                              | Limit Values                     | Result                           |
|----------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                             | 99.5-100 (%)                     | 99.67 %                          |
| Water by Karl Fischer                  | 0-0.05 (%)                       | 0.01 %                           |
| Density (20°C)                         | 1.032-1.036                      | 1.03                             |
| UV Absorbance 300nm                    | 0-0.5                            | 0.07                             |
| UV Absorbance 325nm                    | 0-0.1                            | 0.03                             |
| Refractive index n <sub>20/D</sub>     | 1.468-1.472                      | 1.47                             |
| UV Absorbance 350nm                    | 0-0.01                           | 0.01                             |
| UV Absorbance 400nm                    | 0-0.01                           | 0.00                             |
| UV Absorbance 285nm                    | 0-1                              | 0.14                             |
| $\lambda$ , H <sub>2</sub> O reference | Pass                             | Pass                             |
| Appearance (M100590)                   | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                    | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager