

## Certificate of Analysis

Date of Testing: 2024-03-30 15:58:36

Date of Next Testing: 2028-03-29 15:58:36

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

CAS Number: 872-50-4

Specifications & Purity: for HPLC, ≥99.5%

Lot #: C2422247

SKU #: **M100590**

Version: **0**

Analysis #: **330946**

Storage Temperature: Argon charged

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Water by Karl Fischer               | 0-0.05 (%)                       | 0.03 %                           |
| Density (20°C)                      | 1.032-1.036                      | 1.03                             |
| UV Absorbance 300nm                 | 0-0.5                            | 0.10                             |
| UV Absorbance 325nm                 | 0-0.1                            | 0.02                             |
| Refractive index n <sub>20</sub> /D | 1.468-1.472                      | 1.47                             |
| UV Absorbance 350nm                 | 0-0.01                           | 0.00                             |
| UV Absorbance 400nm                 | 0-0.01                           | 0.00                             |
| Purity(GC)                          | 99.5-100 (%)                     | 99.54 %                          |
| UV Absorbance 285nm                 | 0-1                              | 0.17                             |
| Appearance (M100590)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                 | Conforms to Structure            | Conforms to Structure            |
| λ, H <sub>2</sub> O reference       | Pass                             | Pass                             |



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