

## Certificate of Analysis

Date of Testing: 2024-12-04 16:32:13

Date of Next Testing: 2028-12-03 16:32:13

Product Name: **1-Butyl-2-pyrrolidone**

CAS Number: 3470-98-2

Specifications & Purity:  $\geq 98\%$ (GC)

Lot #: D1707011

SKU #: **B124554**

Version: **1**

Analysis #: **443127**

Storage Temperature: Argon charged

| Parameter                           | Limit Values                                 | Result                                       |
|-------------------------------------|----------------------------------------------|----------------------------------------------|
| Purity(GC)                          | 98-100 (%)                                   | 98.00 %                                      |
| Refractive index n <sub>20</sub> /D | 1.464-1.466                                  | 1.46                                         |
| Density (20°C)                      | 0.959-0.963                                  | 0.96                                         |
| Proton NMR spectrum                 | Conforms to Structure                        | Conforms to Structure                        |
| Appearance(B124554)                 | Colorless to Light red to Green clear liquid | Colorless to Light red to Green clear liquid |



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