

## Certificate of Analysis

Date of Testing: 2024-09-11 17:43:13  
Date of Next Testing: 2025-03-13 17:43:13  
Product Name: **1-Vinyl-2-pyrrolidone**  
CAS Number: 88-12-0  
Specifications & Purity: 99%,contains100ppm NaOH as stabilizer  
Lot #: I2409313  
SKU #: **V106155**  
Version: **1**  
Analysis #: **405619**  
Storage Temperature: Store at 2-8°C

| Parameter                            | Limit Values                     | Result                           |
|--------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20</sub> /D  | 1.512-1.515                      | 1.51                             |
| Density (20°C)                       | 1.044-1.047                      | 1.04                             |
| Purity(GC)                           | 99-100 (%)                       | 99.78 %                          |
| Appearance (V106155)                 | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                  | Conforms to Structure            | Conforms to Structure            |
| Stability (100 ppm Sodium hydroxide) | Conforms                         | Conforms                         |



John Su  
QA & QC Manager