

## Certificate of Analysis

Date of Testing: 2024-03-21 14:19:01  
Date of Next Testing: 2024-09-20 14:19:01  
Product Name: **1-Vinyl-2-pyrrolidone**  
CAS Number: 88-12-0  
Specifications & Purity: 99%, contains 100 ppm sodium hydroxide as inhibitor  
Lot #: L2311367  
SKU #: **V106155**  
**Analysis:** **334473**  
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 (%)	99.90%
Appearance (V106155)	Colorless to light yellow liquid	Colorless to light yellow liquid
Stability (100 ppm Sodium hydroxide)	Conforms	Conforms
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager