

## Certificate of Analysis

Date of Testing: 2024-09-11 16:33:10  
Date of Next Testing: 2025-03-13 16:33:10  
Product Name: **1-Vinyl-2-pyrrolidone**  
CAS Number: 88-12-0  
Specifications & Purity: 99%,contains100ppm NaOH as stabilizer  
Lot #: I2409314  
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