

## Certificate of Analysis

Date of Testing: 2024-11-14 18:26:33  
Date of Next Testing: 2026-11-04 18:26:33  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 10000,K13-18  
Lot #: K2407540  
SKU #: **P110611**  
Version: **0**  
Analysis #: **346788**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	2.50 %
PH (5%, water) 25 ° C	3-7	4.50
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.00 %
K value	13-18	17.40
Appearance (P110611)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Clear,Very Faint Yellow to Yellow,Clear,100 mg/mL	pass	Pass



John Su  
QA & QC Manager