

## Certificate of Analysis

Date of Testing: 2023-05-31 14:40:12  
Date of Next Testing: 2025-05-20 14:40:12  
Product Name: **Polyvinylpyrrolidone**  
CAS Number: 9003-39-8  
Specifications & Purity: average Mw 10000,K13-18  
Lot #: E2323854  
SKU #: **P110611**  
**Analysis:** **214543**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	3.90 %
PH (5%, water) 25 ° C	3-7	4.30
Nitrogen by Elemental Analysis	11.5-12.8 (%)	12.00 %
K value	13-18	16.90
Appearance (P110611)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , Clear,Very Faint Yellow to Yellow,Clear,100 mg/mL	pass	Pass



John Su  
QA & QC Manager