

## Certificate of Analysis

Date of Testing: 2024-04-15 10:43:28  
Date of Next Testing: 2026-04-05 10:43:28  
Product Name: **Poly(1-vinylpyrrolidone-co-vinyl acetate)**  
CAS Number: 25086-89-9(Solution)  
Specifications & Purity: 50% in ethanol (copolymer,3:7)  
Lot #: G2215453  
SKU #: **P109101**  
**Analysis:** **341836**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Hydrazine(N <sub>2</sub> H <sub>4</sub> )	0-1 (ppm)	0.86 ppm
Aldehydes	0-500 (ppm)	400.00 ppm
Nitrogen by Elemental Analysis	7-8 (%)	7.97 %
Loss on drying	0-5 (%)	3.96 %
Residual monomers	0-0.4 (%)	0.28 %
Sulfate Ash	0-0.1 (%)	0.08 %
Heavy metal (as Pb)	0-20 (ppm)	0.00 ppm
Peroxides	0-400 (ppm)	270.00 ppm
K value	25.2-30.8	29.78
Saponification value	230-274	264.00
Appearance (P109101)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager