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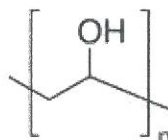
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## Certificate of Analysis

Product Name:

Poly(vinyl alcohol) – average Mw 146,000–186,000, 87–89% hydrolyzed

**Product Number:** 363103  
**Batch Number:** MKBX9187V  
**Brand:** ALDRICH  
**CAS Number:** 9002-89-5  
**MDL Number:** MFCD00081922  
**Quality Release Date:** 18 MAR 2016



Test	Specification	Result
Appearance (Color)	White to Off-White	Off-White
Appearance (Form)	Powder or Crystals	Crystals
Infrared Spectrum	Conforms to Structure	Conforms
Assay	87.0 - 89.0 %	88.1 %
Hydrolysis		
Loss on Drying	≤ 5.0 %	4.8 %
Residue on ignition (Ash)	≤ 0.5 %	0.4 %
Viscosity	45.0 - 55.0 cps	51.7 cps
C=4%, H2O		
pH	4.5 - 6.5	5.4
C=4%, H2O		

Michael Grady, Manager  
 Quality Control  
 Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this presentation. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.