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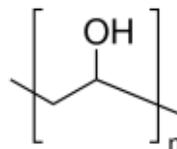
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Poly(vinyl alcohol) - average Mw 130,000, 99+% hydrolyzed

Product Number: 563900
Batch Number: MKCB5273
Brand: ALDRICH
CAS Number: 9002-89-5
MDL Number: MFCD00081922
Quality Release Date: 19 OCT 2016



| Test | Specification | Result |
|-------------------------------|-----------------------|------------|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder or Crystals | Crystals |
| Infrared Spectrum | Conforms to Structure | Conforms |
| Viscosity | | 66.5 cps |
| Specification: Report Results | | |
| pH | | 6.3 |
| c = 4%; Water | | |
| Specification: Report Results | | |
| Residue on ignition (Ash) | | 0.95 % |
| Volatiles | | 4 % |
| Specification: Report Results | | |
| Hydrolysis | | 99.6 mole% |
| Specification: Report Results | | |

Remarks:

Reviewing Chemist :

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 publication. 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.