

Certificate of Analysis

Date of Testing: 2024-07-01 14:22:52

Date of Next Testing: 2028-06-30 14:22:52

Product Name: **Polyquaternium - 11**

CAS Number: 53633-54-8

Specifications & Purity: 20 wt. % in H₂O

Lot #: F2418160

SKU #: **P101212**Version: **1**Analysis #: **360369**

Parameter	Limit Values	Result
Viscosity(25 °C,neat)	20000-60000 (cP)	27660.00 cP
PH at 25°C(5% in water)	5.5-8.5	6.13
Solid Content	19-21 (%)	20.33 %
Miscellaneous Assay(Vinylpyrrolidone)	0-1 (%)	1.00000 %
Appearance (P101212)	Colorless Viscous Liquid , May be Hazy	Colorless Viscous Liquid , May be Hazy
Infrared spectrum	Conforms to Structure	Conforms to Structure
Biological Stain Test	Pass	Pass

John Su
QA & QC Manager