

## Certificate of Analysis

Date of Testing: 2023-02-14 16:32:01  
Date of Next Testing: 2027-02-13 16:32:01  
Product Name: **Polyethylene glycol**  
CAS Number: 25322-68-3  
Specifications & Purity: average Mn 20000  
Lot #: B2307673  
SKU #: **P103730**  
**Analysis: 176256**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
PH	4-7	4.65
loss on Ignition	0-0.2 (%)	0.13 %
Water by Karl Fischer	0-1 (%)	0.32 %
Average Mn	18500-22000	19000.30
Sulfate Ash	0-0.2 (%)	0.14 %
Viscosity(250mg/ml in water,40°C)	26-50 (mm <sup>2</sup> /s)	26.14 mm <sup>2</sup> /s
Melting point	63-66 (°C)	65.48000 °C
Hydroxy Value	4.5-7 (mgKOH/g)	5.86 mgKOH/g
Appearance (P103730)	white powder or flakes or particles	white powder or flakes or particles
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in hot H <sub>2</sub> O , Colorless, Clear, 1g/10ml	pass	Pass



John Su  
QA & QC Manager