

## Certificate of Analysis

Date of Testing: 2023-06-14 14:04:31  
Date of Next Testing: 2027-06-13 14:04:31  
Product Name: **Polyethylene glycol**  
CAS Number: 25322-68-3  
Specifications & Purity: average Mn 20000  
Lot #: F2308416  
SKU #: **P103730**  
**Analysis:** **226383**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
PH	4-7	6.54
loss on Ignition	0-0.2 (%)	0.11%
Water by Karl Fischer	0-1 (%)	0.39%
Average Mn	18500-22000	18710.00
Sulfate Ash	0-0.2 (%)	0.15%
Melting point	63-66 (°C)	63.95000 °C
Hydroxy Value	4.5-7 (mgKOH/g)	5.83 mgKOH/g
Viscosity(250mg/ml in water,40°C)	26-50 (mm <sup>2</sup> /s)	48.25 mm <sup>2</sup> /s
Appearance (P103730)	white powder or flakes or particles	white powder or flakes or particles
Solubility in hot H <sub>2</sub> O , Colorless,Clear,1g/10ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager