

## Certificate of Analysis

Date of Testing: 2023-12-26 13:25:54  
Date of Next Testing: 2026-12-25 13:25:54  
Product Name: **Poly(propylene glycol)**  
CAS Number: 25322-69-4  
Specifications & Purity: Average Mn~580  
Lot #: L2313381  
SKU #: **P639154**  
Analysis: **309057**

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.93%
pH(IPA:H <sub>2</sub> O, 10:6 at 25 °C)	4-6	4.93000
Hydroxyl value	180-210 (mgKOH/g)	208.47 mgKOH/g
Acid Value	0-0.5 (mgKOH/g)	0.50 mgKOH/g
Appearance(P639154)	Colorless Viscous Liquid	colorless viscous liquid
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager