

## Certificate of Analysis

Date of Testing: 2022-09-16 16:18:39  
Date of Next Testing: 2024-09-05 16:18:39  
Product Name: **Polyethylene polyamine**  
CAS Number: 68131-73-7  
Specifications & Purity: MW, Typical 275  
Lot #: I2212219  
SKU #: **P108302**  
Analysis: **103817**

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	28-32 (wt%)	31.84 wt%
Refractive index n <sub>20/D</sub>	1.512-1.516	1.52
Density (20°C)	1.01-1.04 (g/ml)	1.01 g/ml
Molecular Weight, Typical Product	275	275



John Su  
QA & QC Manager