

## Certificate of Analysis

Date of Testing: 2023-03-17 13:30:03  
Date of Next Testing: 2027-03-16 13:30:03  
Product Name: **Isosorbide**  
CAS Number: 652-67-5  
Specifications & Purity: >98.0%(GC)  
Lot #: C23111239  
SKU #: **I157515**  
Version: **0**  
Analysis #: **176008**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation [a] <sub>D</sub> 20/D(c=5 in H <sub>2</sub> O)	43-47 (°)	45.12°
Melting point	58-63 (°C)	61.27000 °C
Purity(GC)	98-100 (%)	98.18%
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager