

## Certificate of Analysis

Date of Testing: 2023-04-26 18:07:47  
Date of Next Testing: 2027-04-25 18:07:47  
Product Name: **Isosorbide Dimethyl Ether**  
CAS Number: 5306-85-4  
Specifications & Purity: >98.0%(GC)  
Lot #: D2315472  
SKU #: **I157534**  
Analysis: **058254**

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.462-1.464	1.46
Specific Rotation [α] <sub>20</sub> /D(c=2 in CHCL <sub>3</sub> )	96-99 (°)	97.97°
Density (20°C)	1.166-1.169	1.17
Purity(GC)	98-100 (%)	98.01%
Appearance (I157534)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager