

## Certificate of Analysis

Date of Testing: 2023-09-11 10:30:17  
Date of Next Testing: 2027-09-10 10:30:17  
Product Name: **1,2-Butanediol**  
CAS Number: 584-03-2  
Specifications & Purity: >98.0%(GC)  
Lot #: I2306261  
SKU #: **B153217**  
Analysis: **263357**

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.437-1.44	1.44
Purity(GC)	98-100 (%)	98.70 %
Appearance (B153217)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager