

## Certificate of Analysis

Date of Testing: 2022-08-13 14:48:22  
Date of Next Testing: 2024-08-02 14:48:22  
Product Name: **2-Butene-1,4-diol(cis+trans)**  
CAS Number: 110-64-5  
Specifications & Purity: 97%  
Lot #: H2204321  
SKU #: **B107560**  
Analysis: **100651**

Parameter	Limit Values	Result
Density (20°C)	1.071-1.073	1.07
Refractive index n <sub>20</sub> /D	1.477-1.479	1.48
Purity( (sum of isomers)(GC)	97-100 (%)	98.45 %
Appearance (B107560)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager