

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-05 16:40:11
Date of Next Testing: 2027-01-04 16:40:11
Product Name: **1,4-Butanediol**
CAS Number: 110-63-4
Specifications & Purity: 99%
Lot #: L2214742
SKU #: **B110391**
Version: **0**
Analysis #: **082188**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Crystallization point	19-21 (°C)	20.20 °C
Density (20°C)	1.016-1.019	1.02
Water by Karl Fischer	0-0.1 (%)	0.02 %
Refractive index n ₂₀ /D	1.444-1.448	1.45
Purity(GC)	99-100 (%)	99.08 %
Appearance (B110391)	White Solid to Colorless Viscous Liquid	White Solid to Colorless Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager