

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-08 10:58:07
 Date of Next Testing: 2026-11-07 10:58:07
 Product Name: **1,4-Butanediol (BDO)**
 CAS Number: 110-63-4
 Specifications & Purity: $\geq 99\%$
 Lot #: K2204175
 SKU #: **B110391**
 Version: **1**
 Analysis #: **145962**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Crystallization point	19-21 (°C)	20.06000 °C
Density (20°C)	1.016-1.019	1.01750
Water by Karl Fischer	0-0.1 (%)	0.03400 %
Refractive index n _{20/D}	1.444-1.448	1.44650
Purity(GC)	99-100 (%)	99.05800 %
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