

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-04 16:39:38

Date of Next Testing: 2027-01-03 16:39:38

Product Name: **1,4-Butanediol (BDO)**

CAS Number: 110-63-4

Specifications & Purity: $\geq 99\%$

Lot #: L2214739

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