

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-18 10:41:29

Date of Next Testing: 2026-01-17 10:41:29

Product Name: **1,2-Butanediol**

CAS Number: 584-03-2

Specifications & Purity: >98.0%(GC)

Lot #: A2214374

SKU #: **B153217**Analysis: **061140**

| Parameter | Limit Values | Result |
|-------------------------------------|----------------------------------|----------------------------------|
| Purity(GC) | 98-100 (%) | 99.78 % |
| Refractive index n ₂₀ /D | 1.437-1.44 | 1.44 |
| 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