

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-11 11:51:18
 Date of Next Testing: 2026-07-10 11:51:18
 Product Name: ($\pm$)-1,3-Butanediol
 CAS Number: 107-88-0
 Specifications & Purity: $\geq 99\%$
 Lot #: G2205088
 SKU #: B111016
 Version: 0
 Analysis #: 097727
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.23800 %
Refractive index n ₂₀ /D	1.439-1.441	1.43900
Density (20°C)	1.004-1.007	1.00700
Appearance (B111016)	colorless viscous liquid	colorless viscous liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager