

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-19 15:56:36
 Date of Next Testing: 2030-01-18 15:56:36
 Product Name: **2,3-Butanediol(mixture of stereoisomers)**
 CAS Number: 513-85-9
 Specifications & Purity: $\geq 98\%$
 Lot #: A2612095
 SKU #: **B103428**
 Version: **0**
 Analysis #: **645682**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)(Total of Diastereoisomers)	98-100 (%)	98.84400 %
Density (25°C)	0.982-1.015	0.99700
Refractive index n _{20/D}	1.427-1.442	1.43770
Appearance (B103428)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager