

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-03-12 15:27:13
 Date of Next Testing: 2028-03-11 15:27:13
 Product Name: **2,3-Butanediol(mixture of stereoisomers)**
 CAS Number: 513-85-9
 Specifications & Purity: $\geq 98\%$
 Lot #: E2026045
 SKU #: **B103428**
 Version: **0**
 Analysis #: **329349**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)(Total of Diastereoisomers)	98-100 (%)	98.01200 %
Density (25°C)	0.982-1.015	0.99500
Refractive index n _{20/D}	1.427-1.442	1.43760
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