

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-31 08:11:29

Date of Next Testing: 2027-01-30 08:11:29

Product Name: **1,3-Propanediol**

CAS Number: 504-63-2

Specifications & Purity: 98%

Lot #: A2312258

SKU #: **P108208****Analysis: 172402**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.438-1.441	1.44
Water by Karl Fischer	0-0.5 (%)	0.02 %
Purity(GC)	98-100 (%)	99.91 %
Density (20°C)	1.053-1.056	1.05
Appearance (P108208)	Colorless to Yellow Viscous Liquid	Colorless to Yellow Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager