

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-24 10:50:47

Date of Next Testing: 2029-12-23 10:50:47

Product Name: **2,3-Butanedione**

CAS Number: 431-03-8

Specifications & Purity: $\geq 98\%$

Lot #: L2516351

SKU #: **B104601**

Version: **1**

Analysis #: **613234**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.393-1.397	1.39460
Purity(GC)	98-100 (%)	99.76200 %
Appearance (B104601)	Yellow to Yellow-Green Liquid	Yellow to Yellow-Green Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager