

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-25 09:49:53

Date of Next Testing: 2030-06-24 09:49:53

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

CAS Number: 431-03-8

Specifications & Purity: $\geq 98\%$

Lot #: F2612348

SKU #: **B104601**

Version: **1**

Analysis #: **715731**

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

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.393-1.397	1.39420
Purity(GC)	98-100 (%)	99.87500 %
Appearance (B104601)	Yellow to Yellow-Green Liquid	Yellow to Yellow-Green Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager