

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-21 10:56:16

Date of Next Testing: 2025-09-10 10:56:16

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

CAS Number: 431-03-8

Specifications & Purity: analytical standard, $\geq 99\%$ (GC)

Lot #: L2117195

SKU #: **B104603**

Version: **0**

Analysis #: **279216**

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

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.32200 %
Appearance (B104603)	Faint Yellow to Very Dark Yellow Liquid	Faint Yellow to Very Dark Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager