

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-01 11:58:25
 Date of Next Testing: 2026-05-31 11:58:25
 Product Name: **4-Pentenoic Acid**
 CAS Number: 591-80-0
 Specifications & Purity: $\geq 98\%$ (GC)(T)
 Lot #: E2325586
 SKU #: **P160582**
 Version: **0**
 Analysis #: **215863**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.428-1.43	1.42960
Purity(Neutralization titration)	97.5-102.5 (%)	100.85000 %
Purity(GC)	98-100 (%)	99.50100 %
Appearance (P160582)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager