

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-23 13:37:57

Date of Next Testing: 2024-11-12 13:37:57

Product Name: **Pyruvic acid**

CAS Number: 127-17-3

Specifications & Purity: $\geq 98\%$ (T)

Lot #: K2217982

SKU #: **P104138**

Version: **1**

Analysis #: **133759**

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

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	0.73400 %
Purity (Titration by NaOH)	97.5-102.5 (%)	100.24000 %
Sulfate Ash	0-0.01 (%)	0.00600 %
Density (20°C)	1.267-1.275	1.26800
Refractive index n _{20/D}	1.425-1.43	1.43000
Purity(GC)	96-100 (%)	98.72600 %
Appearance (P104138)	Colorless to Light Yellow or Yellow-Green Liquid	Colorless to Light Yellow or Yellow-Green Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager