

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-22 14:10:20  
Date of Next Testing: 2024-11-11 14:10:20  
Product Name: **Pyruvic acid**  
CAS Number: 127-17-3  
Specifications & Purity: 98%(T)  
Lot #: K2217954  
SKU #: **P104138**  
**Analysis:** **133759**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	0.73 %
Purity (Titration by NaOH)	97.5-102.5 (%)	100.24 %
Sulfate Ash	0-0.01 (%)	0.01 %
Density (20°C)	1.267-1.275	1.27
Refractive index n <sub>20</sub> /D	1.425-1.43	1.43
Purity(GC)	96-100 (%)	98.73 %
Appearance (P104138)	Colorless to Light Yellow or Yellow-Green	Colorless to Light Yellow or Yellow-Green
Infrared spectrum	Liquid Conforms to Structure	Liquid Conforms to Structure



John Su  
QA & QC Manager