

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-26 17:26:01  
Date of Next Testing: 2026-11-25 17:26:01  
Product Name: **γ-Valerolactone**  
CAS Number: 108-29-2  
Specifications & Purity: 98%  
Lot #: K2223620  
SKU #: **V106294**  
Analysis: **154994**

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.431-1.434	1.43
Purity(GC)	98-100 (%)	99.39 %
Density (20°C)	1.053-1.058	1.05
Appearance (V106294)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager