

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-03 17:07:18
Date of Next Testing: 2028-06-02 17:07:18
Product Name: **Ethyl 4-oxo-1-piperidinecarboxylate**
CAS Number: 29976-53-2
Specifications & Purity: $\geq 98\%$
Lot #: E2413330
SKU #: **E109371**
Version: **1**
Analysis #: **364198**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.01%
Water by Karl Fischer	0-0.5 (%)	0.39%
Density (20°C)	1.137-1.14	1.14
Refractive index n ₂₀ /D	1.474-1.477	1.47
Appearance (E109371)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager