

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-16 15:57:17
 Date of Next Testing: 2027-04-15 15:57:17
 Product Name: **1-Ethylpiperazine**
 CAS Number: 5308-25-8
 Specifications & Purity: $\geq 98\%$
 Lot #: D2313812
 SKU #: **E103219**
 Version: **0**
 Analysis #: **062149**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.22000 %
Density (20°C)	0.9-0.903	0.90200
Refractive index n ₂₀ /D	1.467-1.47	1.47000
Water by Karl Fischer	0-2 (%)	1.49410 %
Appearance (E103219)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager