

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-04 11:28:05  
Date of Next Testing: 2028-11-03 11:28:05  
Product Name: **1-Ethylpiperazine**  
CAS Number: 5308-25-8  
Specifications & Purity:  $\geq 98\%$   
Lot #: J2425622  
SKU #: **E103219**  
Version: **0**  
Analysis #: **377198**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.91000 %
Density (20°C)	0.9-0.903	0.90060
Refractive index n <sub>20</sub> /D	1.467-1.47	1.46880
Water by Karl Fischer	0-2 (%)	1.20000 %
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