

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-04 13:46:17
 Date of Next Testing: 2028-06-03 13:46:17
 Product Name: **1,4-Dimethylpiperazine**
 CAS Number: 106-58-1
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: F2404088
 SKU #: **D124551**
 Version: **1**
 Analysis #: **356418**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(NonaqueousTitration)	98-100 (%)	98.90 %
Refractive index n ₂₀ /D	1.445-1.448	1.45
Purity(GC)	98-100 (%)	99.71 %
Density (20°C)	0.852-0.855	0.85
Appearance (D124551)	Colorless to Light yellow clear liquid	Colorless to Light yellow clear liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager