

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-15 15:06:56

Date of Next Testing: 2025-04-14 15:06:56

Product Name: **1-(2-Trifluoromethylphenyl)piperazine**

CAS Number: 63854-31-9

Specifications & Purity: $\geq 98\%$

Lot #: D23081612

SKU #: **T139130**

Version: **0**

Analysis #: **190726**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.497-1.501	1.49820
Purity(Nonaqueous Titration)	97.5-102.5 (%)	100.82000 %
Density (20°C)	1.225-1.229	1.22700
Purity(GC)	98-100 (%)	98.01000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance (t139130)	Colorless to yellow liquid	Colorless to Yellow Liquid



John Su
QA & QC Manager