

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-30 17:11:49  
Date of Next Testing: 2028-05-29 17:11:49  
Product Name: **1-(4-Trifluoromethylphenyl)piperazine**  
CAS Number: 30459-17-7  
Specifications & Purity: >98.0%(GC)(T)  
Lot #: E2414120  
SKU #: **T162689**  
Version: **0**  
Analysis #: **350169**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.15 %
Purity (Titration by HClO <sub>4</sub> ,0.1M)	97.5-102.5 (%)	98.30 %
Melting point	87-92 (°C)	90.20000 °C
Appearance (T162689)	Colorless to White to light Yellow Solid	Colorless to White to light Yellow Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager