

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-21 16:28:01  
Date of Next Testing: 2028-10-20 16:28:01  
Product Name: **1-(4-Trifluoromethylphenyl)piperazine**  
CAS Number: 30459-17-7  
Specifications & Purity:  $\geq 98\%$ (GC)(T)  
Lot #: J2415565  
SKU #: **T162689**  
Version: **0**  
Analysis #: **415851**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity (Titration by HClO <sub>4</sub> ,0.1M)	97.5-102.5 (%)	98.97%
Melting point	87-92 (°C)	90.92000 °C
Purity(GC)	98-100 (%)	98.67%
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