

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-05 16:27:27  
Date of Next Testing: 2026-11-05 16:27:27  
Product Name: **1-(o-Tolyl)piperazine**  
CAS Number: 39512-51-1  
Specifications & Purity:  $\geq 97\%$   
Lot #: B23081217  
SKU #: **O138787**  
Version: **0**  
Analysis #: **430977**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	99.60%
Melting point	44-48 (°C)	47.20000 °C
Appearance (O138787)	White to Light Yellow Powder or Crystals	White to Light Yellow Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager