

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-04-26 15:20:54  
Date of Next Testing: 2024-04-25 15:20:54  
Product Name: **1-(o-Tolyl)piperazine**  
CAS Number: 39512-51-1  
Specifications & Purity:  $\geq 97\%$   
Lot #: F2010051  
SKU #: **O138787**  
**Analysis:** **087900**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	99.85 %
Melting point	44-48 (°C)	45.49000 °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