

## Certificate of Analysis

Date of Testing: 2023-05-11 09:13:08  
Date of Next Testing: 2025-05-10 09:13:08  
Product Name: **1-(4-Methylphenyl)piperazine**  
CAS Number: 39593-08-3  
Specifications & Purity:  $\geq 98.0\%$   
Lot #: K1503054  
SKU #: **W135829**  
**Analysis:** **221465**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.82 %
Purity(Neutralization titration)	98-100 (%)	98.37 %
Appearance (W135829)	White to yellow low-melting solid	White to yellow low-melting solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager