

Certificate of Analysis

Date of Testing: 2023-04-27 16:09:56
Date of Next Testing: 2025-04-26 16:09:56
Product Name: **1-(4-Methylphenyl)piperazine**
CAS Number: 39593-08-3
Specifications & Purity: $\geq 98.0\%$
Lot #: D2321278
SKU #: **W135829**
Analysis: 199815
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|----------------------------------|-----------------------------------|-----------------------------------|
| Purity(GC) | 98-100 (%) | 98.81 % |
| Purity(Neutralization titration) | 98-100 (%) | 99.36 % |
| 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