

## Certificate of Analysis

Date of Testing: 2022-12-09 18:26:21  
Date of Next Testing: 2025-12-08 18:26:21  
Product Name: **1-(4-Chlorophenyl)piperazine**  
CAS Number: 38212-33-8  
Specifications & Purity: 98%  
Lot #: L2207784  
SKU #: **C170042**  
**Analysis:** **166798**  
Storage Temperature: Room temperature

| Parameter           | Limit Values          | Result                |
|---------------------|-----------------------|-----------------------|
| Melting point       | 76-80 (°C)            | 78.86000 °C           |
| Purity(HPLC)        | 98-100 (%)            | 99.53300 %            |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager