

## Certificate of Analysis

Date of Testing: 2022-12-21 17:09:44  
Date of Next Testing: 2025-12-20 17:09:44  
Product Name: **1-(4-Chlorophenyl)piperazine**  
CAS Number: 38212-33-8  
Specifications & Purity: 98%  
Lot #: L2216673  
SKU #: **C170042**  
**Analysis:** **171122**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	76-80 (°C)	79.58000 °C
Purity(HPLC)	98-100 (%)	99.45000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager