

## Certificate of Analysis

Date of Testing: 2023-06-29 17:14:28

Date of Next Testing: 2026-06-28 17:14:28

Product Name: **1-(3-Chloropropyl)-4-methylpiperazine**

CAS Number: 104-16-5

Specifications & Purity: 95%

Lot #: F2313218

SKU #: **C178996**

**Analysis:** **042674**

Storage Temperature: Room temperature

| Parameter           | Limit Values          | Result                |
|---------------------|-----------------------|-----------------------|
| Purity(GC)          | 95-100%               | 98.38 %               |
| Total Nitrogen      | 95-102.5%             | 101.45 %              |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager