

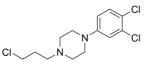
## **Certificate of Analysis**

| Product Name:  | 1-(3-Chloropropyl)-4-(3,4-dichlorophenyl)piperazine    |
|----------------|--------------------------------------------------------|
| Cat. No.:      | CS-0865120                                             |
| CAS No.:       | 101364-27-6                                            |
| Batch No.:     | 313715                                                 |
| Chemical Name: | Piperazine, 1-(3-chloropropyl)-4-(3,4-dichlorophenyl)- |

## **PHYSICAL AND CHEMICAL PROPERTIES**

Molecular Formula: Molecular Weight: Storage: Chemical Structure:

C<sub>13</sub>H<sub>17</sub>Cl<sub>3</sub>N<sub>2</sub> 307.65 2-8°C, protect from light



## **ANALYTICAL DATA**

| Appearance:                  | Colorless to light yellow (Liquid)                                      |
|------------------------------|-------------------------------------------------------------------------|
| <sup>1</sup> H NMR Spectrum: | Consistent with structure                                               |
| Purity (HPLC):               | 99.94%                                                                  |
| Conclusion:                  | The product has been tested and complies with the given specifications. |

## Caution: Product has not been fully validated for medical applications. For research use only.

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