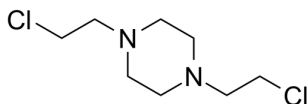


## Certificate of Analysis

### Compound Information

<b>Product Name:</b>	1,4-Bis(2-chloroethyl)piperazine
<b>Cat. No.:</b>	1228974
<b>CAS No.:</b>	1009-85-4
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>16</sub> Cl <sub>2</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	211.13
<b>Chemical Structure:</b>	



### Batch Information

<b>Batch No.:</b>	Le090998321
<b>Storage:</b>	Storage temp. 2-8°C
<b>Mfg. Date:</b>	2021-09-10
<b>Retest Date:</b>	2024-09-09
<b>Origin:</b>	Shanghai, China

### QC Summary

<b>Appearance:</b>	White to light yellow (Solid)
<b><sup>1</sup>H NMR Spectrum:</b>	Consistent with structure
<b>LCMS:</b>	Consistent with structure
<b>Purity (NMR):</b>	≥95.0%
<b>Conclusion:</b>	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

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