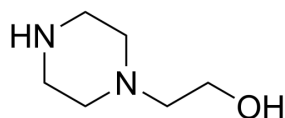


Certificate of Analysis

Product Name: 1-(2-Hydroxyethyl)piperazine
Cat. No.: CS-W020134
CAS No.: 103-76-4
Batch No.: Lf1208188435
Chemical Name: 1-Piperazineethanol

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₆H₁₄N₂O
Molecular Weight: 130.19
Storage: 2-8°C, protect from light, stored under nitrogen
Chemical Structure:



ANALYTICAL DATA

Appearance: Colorless to light yellow (Liquid)
¹H NMR Spectrum: Consistent with structure
Purity (NMR): ≥98.0%
Water(KF): 0.76%
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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