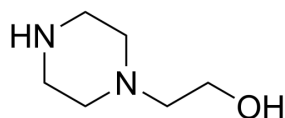


## Certificate of Analysis

**Product Name:** 1-(2-Hydroxyethyl)piperazine  
**Cat. No.:** CS-W020134  
**CAS No.:** 103-76-4  
**Batch No.:** La0908056  
**Chemical Name:** 1-Piperazineethanol

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O  
**Molecular Weight:** 130.19  
**Storage:** 2-8°C, protect from light, stored under nitrogen  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** Colorless to light yellow (Liquid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (NMR):** ≥98.0%  
**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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