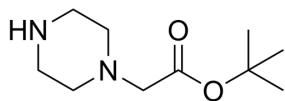


## Certificate of Analysis

**Product Name:** tert-Butyl 2-(piperazin-1-yl)acetate  
**Cat. No.:** CS-0154829  
**CAS No.:** 112257-22-4  
**Batch No.:** L404971

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>10</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight:** 200.28  
**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  
**LCMS:** Consistent with structure  
**Purity (GC):** 98.82%  
**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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