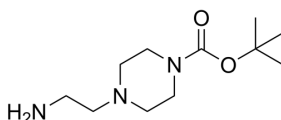


## Certificate of Analysis

**Product Name:** tert-Butyl 4-(2-aminoethyl)piperazine-1-carboxylate  
**Cat. No.:** CS-W008990  
**CAS No.:** 192130-34-0  
**Batch No.:** Lc1119066  
**Chemical Name:** 1-Piperazinecarboxylic acid, 4-(2-aminoethyl)-, 1,1-dimethylethyl ester

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>11</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight:** 229.32  
**Storage:** 2-8°C, protect from light  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to yellow (<36°C Solid, >41°C Liquid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (NMR):** ≥97.0%  
**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.**

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA