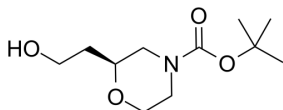


## Certificate of Analysis

**Product Name:** (S)-tert-Butyl 2-(2-hydroxyethyl)morpholine-4-carboxylate  
**Cat. No.:** CS-0079240  
**CAS No.:** 1257856-15-7  
**Batch No.:** 189986  
**Chemical Name:** 4-Morpholinecarboxylic acid, 2-(2-hydroxyethyl)-, 1,1-dimethylethyl ester, (2S)-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>11</sub>H<sub>21</sub>NO<sub>4</sub>  
**Molecular Weight:** 231.29  
**Storage:** Storage temp. 2-8°C  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** Colorless to light yellow (Liquid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Enantiomeric Excess:** 100.00%  
**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.**

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

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