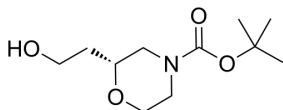


## Certificate of Analysis

**Product Name:** (R)-tert-Butyl 2-(2-hydroxyethyl)morpholine-4-carboxylate  
**Cat. No.:** CS-0079667  
**CAS No.:** 136992-21-7  
**Batch No.:** Lf0930172626  
**Chemical Name:** 4-Morpholinecarboxylic acid, 2-(2-hydroxyethyl)-, 1,1-dimethylethyl ester, (R)- (9CI)

### 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):** ≥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.**

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