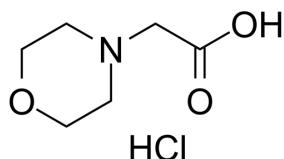


## Certificate of Analysis

**Product Name:** 4-Morpholineacetic acid hydrochloride  
**Cat. No.:** CS-M2890  
**CAS No.:** 89531-58-8  
**Batch No.:** Lf0630143821

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>CINO<sub>3</sub>  
**Molecular Weight:** 181.62  
**Storage:** Store at room temperature, keep dry and cool  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**<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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