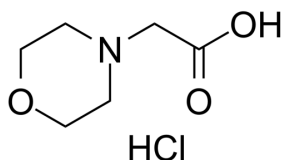


## Certificate of Analysis

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

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:**  $C_6H_{12}ClNO_3$   
**Molecular Weight:** 181.62  
**Storage:** Store at room temperature, keep dry and cool  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
 **$^1H$  NMR Spectrum:** Consistent with structure  
**Purity (NMR):**  $\geq 98.0\%$   
**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