

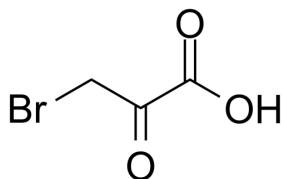
## Certificate of Analysis

**Product Name:** 3-Bromopyruvic acid  
**Cat. No.:** HY-19992  
**CAS No.:** 1113-59-3  
**Batch No.:** 67051  
**Chemical Name:** Propanoic acid, 3-bromo-2-oxo-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>3</sub>H<sub>3</sub>BrO<sub>3</sub>  
**Molecular Weight:** 166.96  
**Storage:**  
Powder      -20°C      3 years  
                  4°C        2 years  
In solvent   -80°C      6 months  
                  -20°C      1 month

**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to light yellow (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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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