



## Product Information

### Glycine

Product Number **G 7126**  
Store at Room Temperature

#### Product Description

Molecular Formula:  $C_2H_5NO_2$

Molecular Weight: 75.07

CAS Number: 56-40-6

pI: 6.06<sup>1</sup>

pK<sub>a</sub>: for the  $\alpha$  carboxyl group: 2.35; and for the  $\alpha$  amino group: 9.78<sup>1</sup>

Melting Point: 233-290 °C<sup>2</sup>

Glycine does not have a chiral center. Therefore, it does not have a D- or L- isomer designation. This material is synthetic.

This product is documented to have been tested, and shown to conform to the USP XXIII specifications for Organic Volatile Impurities (OVI). Organic Volatile Impurity Limits are (in ppm): Benzene, 100; Chloroform, 50; 1,4 Dioxane, 100; Methylene Chloride, 500; Trichloroethylene, 100. In addition, these organic compounds are not used in the manufacture of glycine and are not expected to be generated during manufacture. The controlled handling and storage of glycine ensures that contamination of glycine with these chemicals will not occur.

This product can be used to prepare buffers at approximately pH 3.2 and pH 9.<sup>3</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

This product is soluble in water at 200 mg/ml, resulting in a clear solution. Literature indicates that solubility in water at 25 °C is 25.0 g/100 ml.<sup>1</sup>

#### Storage/Stability

Solutions of this product can be autoclaved.

#### References

1. Molecular Biology: LabFax, Brown, T. A., ed., Bios Scientific Publishers (Oxford, England: 1991).
2. The Merck Index, 10th ed., Entry# 4354.
3. Meth. Enzymol., **182**, pp. 31, 37 (1990).

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