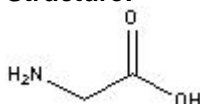


## TECHNICAL INFORMATION

Catalog Number: 100570, 194049, 194681, 194825, 808822, 808831

### Glycine

#### Structure:



**Molecular Formula:** C<sub>2</sub>H<sub>5</sub>NO<sub>2</sub>

**Molecular Weight:** 75.07

**CAS #:** 56-40-6

**Synonyms:** Aminoacetic acid; Gly; Aminoethanoic acid; Glycocoll; G

**Solubility:** Soluble in water (250 mg/ml @ 25°C; 672 mg/ml @ 100°C); slightly soluble in alcohol and ethanol(95%); almost insoluble in ether.<sup>1</sup>

**Description:** A non-essential amino acid. Only amino acid with no asymmetric carbon.<sup>1</sup> Major inhibitory neurotransmitter.<sup>1</sup> Commonly used as a component in Tris-glycine and Tris-glycine-SDS running buffers for polyacrylamide gel electrophoresis<sup>6,7,8</sup>, a component of Towbin's transfer buffer for Western blots<sup>10</sup>, a buffer substance in cryoenzymology<sup>5</sup>, in osmotic pressure maintenance in isoelectric focusing of erythrocytes<sup>9</sup>, salting-in effect in protein chemistry<sup>3</sup>, and as a buffer component in the coupled phosphatase-kinase reaction for end labelling of restriction fragments.<sup>4</sup> The growth requirements of various microorganisms is reported in the Handbook of Microbiology.<sup>2</sup>

#### Availability:

Catalog Number	Description	Size
100570	Glycine	500 g 1 kg 5 kg 25 kg
194681	Glycine, cell culture reagent	100 g 500 g 1 kg 5 kg
194825	Glycine, molecular biology reagent	100 g 500 g 1 kg 5 kg
194049	Glycine, ACS Reagent Grade, purity not less than 98.5%	50 g 250 g 1 kg
808822 808831	Glycine, electrophoresis grade, purity approximately 99.5%	1 kg 5 kg

#### References:

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