

TECHNICAL DATA SHEET

Glycine

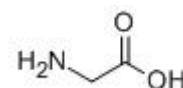
USP40

Chemical Properties

Chemical Formula: C₂H₅NO₂

Molecular Weight: 75.07

CAS: 56-40-6



Description

Glycine is unique among the proteinogenic amino acids in that it is achiral. It can fit into hydrophilic or hydrophobic environments, due to its minimal side chain of only one hydrogen atom.

Solubility

It is soluble in water.

Specification

Item	Specification	Test Method
Appearance	White crystalline powder	Visual
Identification		
Infrared Absorption	Meets the requirements	USP40
Assay	98.5%~101.5%	USP40
Residue on ignition	Max 0.1%	USP40
Loss on drying	Max 0.2%	USP40
Organic volatile impurities	Meets the requirements	USP40
Sulfate	Max 65ppm	USP40
Chloride	Max 70ppm	USP40
Heavy metals (as Pb)	Max 20ppm	USP40
Arsenic	Max 1ppm	USP40
Mercury	Max 1ppm	USP40
Total Plate Count	Max 1,000cfu/g	USP40
Mold & Yeast	Max 100cfu/g	USP40
<i>E. Coli</i>	Negative	USP40
<i>Salmonella</i>	Negative	USP40

Ingredients

Pure Glycine.

Applications

Glycine is used as pharmaceutical raw material or for food supplement.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Packaging, Storage & Shelf Life

Package	25kg/bag; or according to customers' requirements.
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf life	2 years if sealed and stored properly.