

■ Glycine

Introduction

Product properties: Glycine is a colorless, sweet-tasting crystalline solid. It is the only achiral proteinogenic amino acid. It can fit into hydrophilic or hydrophobic environments, due to its minimal side chain of only one hydrogen atom. The acyl radical is glycylyl.

Functions:

1. Animal and human foods

As an additive in pet food and animal feed, in foods and pharmaceuticals as a sweetener/taste enhancer, or as a component of food supplements and protein drinks.

2. Cosmetics and miscellaneous applications

Glycine serves as a buffering agent in antacids, analgesics, antiperspirants, cosmetics, and toiletries. A variety of industrial and chemical processes use glycine or its derivatives, such as the production of fertilizers and metal complexing agents.

3. Chemical feedstock

Glycine is an intermediate in the synthesis of a variety of chemical products. It is used in the manufacture of the herbicide glyphosate.

4. Industrial Use

It is widely used as an intermediate of the medicine such as thiamphenicol, as an intermediate in the production of glyphosate, as a solvent for removing carbon dioxide (CO₂) in the fertilizer industry, and as the galvanizing solution in electroplating.

Ingredient

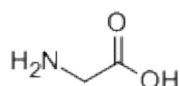
Product Name Glycine

CAS 56-40-6

MF C₂H₅NO₂

MW 75.07

MS



Item and Standard

ITEM	UNIT	STANDARD
Appearance		White, rystalline powder
Identification		Infrared Absorption
Assay(on dried basis)	%	98.5%-101.5%
Loss on drying	%	≤0.2%
Residue on ignition	%	≤0.1%

Chlorides	≤70ppm
Sulfates	≤65ppm
Heavy metals	≤10ppm
Hydrolyzable substances	Meet the requirements
Organic volatile impurities	Meet the requirements
Arsenic	≤1ppm
Lead	≤3ppm
Mercury	≤0.1ppm
Cadmium	≤1ppm
Iron(Fe)	≤30ppm
Total plant count	≤1000cfu/g
Yeast & mold	≤100cfu/g
E.Coli	Negative
Salmonella	Negative
Mesh	20-80

Application

1. Food grade Glycine is mainly used as nutritional supplement and food additives.
2. Pharmaceutical grade Glycine is mainly used as nutrition transfusion of amino acid, Vc stabilizer.
3. Industrial grade is mainly used inorganic synthesis, metal complex.



Packaging

25KG

Storage

Please reading safety data sheet before carrying or using the product.
Cool and dry, keep tightly closed, quality guarantee period is two years.