

TECHNICAL DATA SHEET

L-Proline

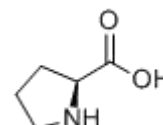
USP32

Chemical Properties

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.13

CAS Number: 147-85-3



Description

L-Proline is a non-essential amino acid that is synthesized from GLUTAMIC ACID. It is an essential component of COLLAGEN and is important for proper functioning of joints and tendons.

Solubility

It is soluble in water.

Specification

Item	Specification	Test Method
Appearance	White crystals or crystalline powder	Visual
Identification		
Infrared Absorption	Meets the requirements	USP32
Assay	98.5%~101.5%	USP32
Specific rotation $[\alpha]_D^{20}$	-84.3°~-86.3°	USP32
Loss on drying	Max 0.4%	USP32
Residue on ignition	Max 0.4%	USP32
Chromatographic purity	Not more than 0.5% of any individual impurity is found; Not more than 2.0% of total impurities is found	USP32
Organic volatile impurities	Meets the requirements	USP32
Sulfate	Max 0.03%	USP32
Chloride	Max 0.05%	USP32
Heavy metals (Pb)	Max 15ppm	USP32
Iron	Max 30ppm	USP32
Total Plate Count	Max 1,000cfu/g	USP32
Mold & Yeast	Max 100cfu/g	USP32
<i>E. Coli</i>	Negative	USP32
<i>Salmonella</i>	Negative	USP32

Ingredients

Pure L-Proline.

Applications

L-Proline 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

Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Packaging, Storage & Shelf Life

Package	25kg/drum;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.