

## ■ L-Proline

### Introduction

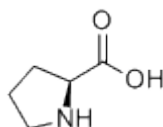
Product properties: L-Proline is white crystalline powder and has characteristic sweet taste. It is one of the most important amino acids for synthesizing human protein. It is widely used in the food and medical industry, and is an important intermediate for synthesizing ACE inhibitors such as Captopril and Enalapril. It is also one of the important raw materials of amino acid transfusion. L-Proline has been used universally as food additive, catalyst and raw materials of fine chemical industry.

Functions: Proline and its derivatives are often used as asymmetric catalysts in proline organocatalysis reactions. The CBS reduction and proline catalysed aldol condensation are prominent examples. In brewing, proteins rich in proline combine with polyphenols to produce haze (turbidity). L-Proline is an osmoprotectant and therefore is used in many pharmaceutical, biotechnological applications. The growth medium used in plant tissue culture may be supplemented with proline. This can increase growth, perhaps because it helps the plant tolerate the stresses of tissue culture.

1. Used as amino acid injection, compound amino acid infusion, food additives, nutritional supplements, fluid.
2. Used as biochemical research, medicine for malnutrition, protein deficiency, gastrointestinal disease, burns, and postoperative protein supplement.
3. Used as nutritional supplements. Flavors with sugar fever occurs amino - carbonyl reaction, can generate a special flavor substances. China GB 2760-86 provides can be used as a spice.
4. Used as Amino acid drugs. One of the raw materials of compound amino acid transfusion for malnutrition, protein deficiency, a protein supplement after severe gastrointestinal disease, burns and surgery.
5. Used as Pharmaceutical raw materials and food additives.

### Ingredient

Product Name	L-Proline
CAS	147-85-3
MF	C5H9NO2
MW	115.13
MS	



### Ingredient

ITEM	UNIT	STANDARD
Assay	%	98.8%-101.5%
Identification		Infrared Absorption
Specification Rotation		-84.3 ° ~ -86.3 °
Loss on drying	%	≤0.4%
Residue on ignition	%	≤0.4%
Chloride (As Cl)	%	≤0.05%
Sulfate	%	≤0.03%
Iron	%	≤0.003%
Heavy metals	%	≤0.0015%
Chromatographic purity		Meet the requirement

## Application

### Medicine grade

- (1)Used for amino acid injection, compound amino acid transfusion.
- (2)L-Proline is a major component of collagen.
- (3)L-Proline can improve plant cold tolerance.
- (4)Used for biochemical research ,used for malnutrition, protein deficiency, gastrointestinal diseases, burns and postoperative protein supplements, etc.

### Food grade

- (1)food additives, flavor agent, and the total heat generation amino sugar-carbonyl reaction, can generate special flavoring substances.
- (2)nutritional supplements.



## Packaging

25KG

## Storage



**Qingdao Wanyuan Mountain Biotech Co.,Ltd**  
**青岛万源山生物科技有限公司**

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