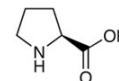




TECHNICAL DATA SHEET

Product name: L-Proline



| <u>Specifications</u> | | |
|--------------------------------------|---|-----------------|
| Parameters | Specifications | Typical results |
| Appearance | White crystalline or crystalline powder | Complies |
| Identification By HPLC | The Retention Time Of The Principle Peak Obtained With The Substance To Be Examined Corresponds To That Of Reference Standard | Complies |
| Specific rotation [α] _{D20} | -84.3 to -86.3° | -85.5° |
| Residue on ignition | Not more than 0.10% | 0.03% |
| Total Plate Count | Not more than 1000cfu/g | Conforms |
| Yeast and Mould | Not more than 100cfu/g | Conforms |
| Assay | 98.5% to 101.5% | 99.6% |

Stability and storage:

Keep container tightly closed in a dry and well-ventilated place.

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before use. Wash hands before breaks and after work.

Application Areas:

Applications:

A key component of collagen, essential for maintaining healthy skin, cartilage, and connective tissue.

Furthermore, it acts as an Osmo protectant and is used in plant tissue culture to enhance growth under stress.

General information

| | |
|------------|---------------------------------|
| CAS No. | : 147-85-3 |
| IUPAC Name | : Proline |
| Synonyms | : Pyrrolidine-2-carboxylic acid |
| EC No | : 210-189-3 |

Physical/Chemical properties:

| | |
|------------------------|---|
| Molecular Formula | : C ₅ H ₉ NO ₂ |
| Molecular Weight | : 115.13 |
| pH | : 5.5-7.0 |
| Physical state at 20°C | : Solid |
| Melting Point | : 228-233°C |

Hazard classification & labelling:

Single Word : Danger



Pictogram :

Classification according to Regulation (EC) No 1272/2008: : H315, H319, H335.

Precautionary Statements : P302 + P352, P337 + P313
P304 + P340, P312, P280
P332 + P313.