



MASTERCHEM LIMITED

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L-PROLINE

● DESCRIPTION

L-Proline

L-Proline is one of the most important amino acid to combine protein for human and animal body, an important material for amino acid transfusion. It is also the main intermediate for some medicines and broadly applied to food and drug industry.

CAS No.: 147-85-3

Chemical Formula: C₅H₉NO₂

Molecular Weight: 115.13

Quality Standard: AJI 97 USP 29

PACKAGE: 25Kg drum with 1 layer foil liner and 1 layer PE bag

STORAGE: Be stored in cool and dry place

Shelf life: 1 years

● SPECIFICATION

| ITEMS | SPECIFICATIONS | RESULTS |
|-----------------------------|--|--------------------|
| APPEARANCE | Whitish Crystalline powder | Conform |
| ASSAY | 98.5% | 98.9% |
| PH | 5.5~7.0 | 6.2 |
| SPECIFIC ROTATION | -84.5 ⁰ ~-86.0 ⁰ | -85.2 ⁰ |
| TRANSMITTANCE | ≥98% | 98.9% |
| RESIDUE ON IGNITION | ≤0.1% | 0.06% |
| CHLORIDE | ≤0.02% | <0.02 |
| AMMONIUM (NH ₄) | ≤0.02% | Conform |
| SULFATE | ≤0.020% | Conform |
| IRON | ≤0.001% | Conform |
| HEAVY METALS(LEAD) | ≤0.001% | Conform |
| ARSENIC | ≤0.0001% | Conform |
| LEAD | ≤0.0003% | Conform |
| IGNITED RESIDUE | ≤0.1% | 0.05% |
| PH | 5.9-6.9 | 6 |
| LOSS ON DRYING | ≤0.3% | 0.05% |

CONCLUSION: CONFORMING STANDARD AJI97