

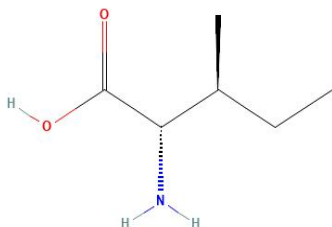


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Isoleucine

Chemical Structure:



Molecular Formula: C₆H₁₃NO₂

Molecular Weight: 131.17

CAS No.: 73-32-5

Specifications

Item	Limit	Analysis method
Appearance	White crystals or crystalline powder	Visual
Identification	Infrared absorption	USP <197K>
Assay (on dried basis)	98.5% - 101.5%	Titration (perchloric acid)
Rotation [α] _{25D} (in HCl)	+38.9° to +41.8°	USP <781>
Loss on drying	Not more than 0.3%	USP <731>
Residue on ignition	Not more than 0.3%	USP <281>
Sulfate (as SO ₄)	Not more than 0.03%	USP <221>
pH	5.5 - 7.0	pH meter
Chloride (as Cl)	Not more than 0.05%	USP <221>
Iron (as Fe)	Not more than 0.003%	USP <241>
Arsenic (as As)	Not more than 3 ppm	ICP-MS
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
Bulk density	0.4 - 0.6 g/mL	USP <616>
Total plate count	Not more than 1,000 cfu/g	USP <61>
Coliforms	Not more than 3 MPN/g	USP <62>
Yeast and moulds	Not more than 100 cfu/g	USP <61>
Salmonella	Absence in 25 g	USP <62>

Recommended shelf life: 2 years

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight containers, protected from light, in a cool and dry place.

Note: Analytical methods refer to current USP general chapters and the manufacturer's standard (USP 24 / GB 29938); this document is for reference only and the quality of each batch is subject to the COA supplied with the goods.

Preparation Date: Sep. 21, 2026 | Version: 1.0 | Prepared by: | Product code: JC-ILE-001