

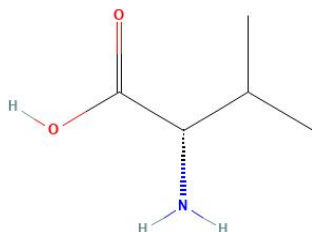


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Valine

Chemical Structure:



Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.15

CAS No.: 72-18-4

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)
Specific rotation [α] _{25D}	+26.6° to +28.8°	USP <781>
Loss on drying	Not more than 0.3%	USP <731>
Residue on ignition	Not more than 0.1%	USP <281>
Chloride (as Cl)	Not more than 0.05%	USP <221>
Sulfate (as SO ₄)	Not more than 0.1%	USP <221>
pH	5.5 - 7.0	pH meter
Iron (as Fe)	Not more than 0.003%	USP <241>
Total plate count	Not more than 1,000 cfu/g	USP <61>
Arsenic (as As)	Not more than 3 ppm	ICP-MS
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
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-VAL-001 | Product name: L-Valine