

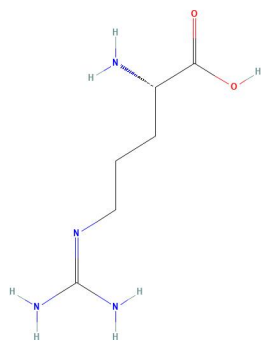


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Arginine

Chemical Structure:



Molecular Formula: C₆H₁₄N₄O₂

Molecular Weight: 174.20

CAS No.: 74-79-3

Specifications

Item	Limit	Analysis method
Color	White	Visual
Odor	Characteristic odor	Organoleptic
State	Crystals or crystalline powder	Visual
Identification	Infrared absorption	USP <197K>
Assay (on dried basis)	98.5% - 101.5%	Titration (perchloric acid)
Specific rotation [α] _{20D}	+26.0° to +27.9°	USP <781>
Clarity and color of solution	Clear and colorless	Visual
pH	10.0 - 12.0	pH meter
Chloride (as Cl)	Not more than 0.1%	USP <221>
Arsenic (as As)	Not more than 0.2 mg/kg	ICP-MS
Loss on drying	Not more than 1.0%	Gravimetric method
Residue on ignition	Not more than 0.2%	Gravimetric method

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 (GB 28306-2012); 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-ARG-001 | Product name: L-Arginine