

Specification

Technical Data Sheet

CAS	SPECIFICATION	STORAGE	MOLECULAR WEIGHT
56-87-1	v1 · 06 Oct 2026	Ambient	146.19

PRODUCT

L-Lysine

Product number	90030073
CAS number	56-87-1
Molecular formula	H ₂ N(CH ₂) ₄ CH(NH ₂)CO ₂ H
Molecular weight	146.19 g/mol

PARAMETER	SPECIFICATION
Appearance	White to off-white crystals or crystalline powder
Assay	98.5 - 101.5%
Identification	Conforms to reference
Loss on Drying	≤5.0%
pH	9.0 - 10.5
Specific rotation	+25.0° - +27.0°
Chloride (Cl-)	≤0.03%
Iron (Fe)	≤10ppm
Other amino acids	≤0.5%
Residue on Ignition	≤0.5%
Ammonium (NH₄⁺)	≤0.02%
Arsenic trioxide (As₂O₃)	≤1ppm

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

Reg No 6879903 VAT GB 744 9721 05