L-Serine

$C_3H_7NO_3$ · CAS 56-45-1 · L-Serine, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
L-Serine, powder	$C_3H_7NO_3$	56-45-1	98.5–101.5%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

L-Serine specified at 98.5–101.5% by HPLC with a specific rotation of +6.5° to +8.5°; the hydroxyl side chain and the enantiomer are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	98.5–101.5%	As stated
Appearance	White crystalline powder	As stated
Identification	IR and HPLC conform	As stated
Specific rotation	+6.5° to +8.5° (dry basis)	As stated
Loss on drying	≤0.5%	As stated
pH (1% solution)	5.0–7.0	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	L-Serine 98.5–101.5%; [α]D +6.5° to +8.5°	Identity
Solubility	Freely soluble in water; the solution is neutral.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends

AVAILABLE FORMS

- Powder, 40 mesh
- Granulated on request

PACKING

- 1 kg foil pouch

STORAGE

• 25 kg fiber drum	Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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