Alpha-Lipoic Acid

$C_8H_{14}O_2S_2$ · CAS 1077-28-7 · Racemic α-lipoic acid, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Racemic α-lipoic acid, powder	$C_8H_{14}O_2S_2$	1077-28-7	99.0–101.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Racemic alpha-lipoic acid specified at 99.0–101.0% by HPLC, with melting point, moisture and heavy metals; the R-form is a different specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	99.0–101.0%	As stated
Appearance	Yellow crystalline powder	As stated
Identification	IR and HPLC conform	As stated
Melting point	60–62 °C	As stated
Loss on drying	≤0.5%	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	α-Lipoic acid 99.0–101.0% (HPLC)	Identity
Solubility	Slightly soluble in water; soluble in ethanol and in alkaline solutions.	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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