R-Alpha-Lipoic Acid

$C_8H_{14}O_2S_2$ · CAS 1200-22-2 · R-alpha-lipoic acid, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
R-alpha-lipoic acid, powder	$C_8H_{14}O_2S_2$	1200-22-2	99.0–101.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC and chiral HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

R-Alpha-lipoic acid specified at 99.0–101.0% by HPLC with specific rotation; the R-enantiomer and racemic alpha-lipoic acid are different products with different potency and labels.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	99.0–101.0%	As stated
Appearance	Yellow to pale yellow powder	As stated
Identification	HPLC and IR conform	As stated
Specific rotation	+110° to +125° (c=1, ethanol)	As stated
Melting point	46–50 °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 80 mesh	As stated
Marker set	R-Alpha-lipoic acid 99.0–101.0%; rotation +110° to +125°	Identity
Solubility	Slightly soluble in water; soluble in ethanol and in fats.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends

AVAILABLE FORMS

- Powder, 80 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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