

Alpha Lipoic Acid

Antioxidant nutraceutical

Product Description

Alpha Lipoic Acid (ALA) is a powerful antioxidant used in nutraceutical and pharmaceutical formulations for diabetic neuropathy and antioxidant protection.

Certificate of Analysis

HSN Code: 2930.90

CAS Number: 1077-28-7

Classification: Nutraceutical / Pharmaceutical

Parameter	Specification	Test Method
Appearance	Yellow crystalline powder	Visual
Assay	99.0–100.5%	HPLC
Identification	Conforms to reference standard	IR / HPLC
Melting Point	60–62°C	USP <741>
Loss on Drying	"d 0 . 5 %	USP <731>
Optical Rotation (racemic)	0° ± 0.5°	USP <781>
Heavy Metals	"d 1 0 p p m	USP <231>
Residue on Ignition	"d 0 . 1 %	USP <281>

Physical Properties

Appearance: Yellow crystalline powder

Molecular Formula: $C^H\bullet,,O,S,$

Molecular Weight: 206.33 g/mol

Solubility: Slightly soluble in water; freely soluble in ethanol and methanol

Melting Point: 60–62°C

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Mild irritant
- Combustible solid (MP 60–62°C)
- Contains sulfur — may have odor