

EDTA Pure Acid

Ethylenediaminetetraacetic acid – chelating agent

Product Description

EDTA (Ethylenediaminetetraacetic Acid) Pure Acid is a chelating agent used in pharmaceutical formulations, water treatment, industrial cleaning and analytical chemistry. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2922.49

CAS Number: 60-00-4

Classification: Pharmaceutical / Industrial Grade

Parameter	Specification	Test Method
Appearance	White crystalline powder	Visual
Assay (on dried basis)	99.0–101.0%	Complexometric titration
Identification	IR spectrum conforms; positive nitrogen test	IR Spectroscopy
pH (1% aqueous solution)	2.0–3.0	Potentiometry
Loss on Drying at 120°C	"d 0.5 %	USP <731>
Residue on Ignition	"d 0.1 %	USP <281>
Chelation Value (dry basis)	"e 290 mg CaCO ₃ / g	Titrimetric
Iron (Fe)	"d 5 ppm	AAS / ICP
Heavy Metals (as Pb)	"d 10 ppm	ICP-MS
Arsenic (As)	"d 1 ppm	Hydride AAS
Nitrilotriacetic Acid (NTA)	"d 0.1 %	HPLC

Physical Properties

Appearance: White crystalline odorless powder

Molecular Formula: C₁₀H₁₆N₄O₈

Molecular Weight: 292.24 g/mol

Solubility: Slightly soluble in cold water; more soluble in hot water; soluble in alkali

Melting Point: Decomposes above 220°C (does not melt)

Packing: 25 kg multi-ply paper bags or HDPE drums with PE liner; bulk sacks available

Storage: Store in cool, dry, well-ventilated area. Protect from moisture. Keep away from strong acids and bases.

Safety & Handling

PPE: Gloves, safety goggles, dust mask

Hazards:

- Mildly acidic – irritant to skin and eyes as dust
- Prolonged inhalation of dust may cause irritation