



TECHNICAL DATA SHEET

Product Name: Ethylenediaminetetraacetic Acid (EDTA)

Grade: Industrial Grade

CAS Number: 60-00-4

1. Product Description

Ethylenediaminetetraacetic Acid (EDTA) is a white crystalline powder widely used as a chelating agent in industrial applications. It forms stable complexes with various metal ions and is suitable for applications requiring metal ion control.

2. Technical Specifications

Test Item	Specification	Typical Result
Appearance	White crystalline powder	White crystalline powder
Purity (%)	≥ 99.0	99.4
pH (Saturated Solution, 0.5 g/L, 25°C)	2.6–3.2	2.9
Chelating Value	≥ 339	339
Sodium Carbonate Solution Solubility Test	Pass	Pass
Sulfate (%)	≤ 0.001	0.0007
Chlorides (%)	≤ 0.05	0.03
Iron (Fe, %)	≤ 0.001	0.0008
Heavy Metals (as Pb, %)	≤ 0.001	0.0008
Residue on Ignition (%)	≤ 0.1	0.01
Aminotriacetic Acid (NTA, %)	Not specified	Not specified
Loss on Drying (%)	≤ 0.2	0.017

3. Applications

EDTA Industrial Grade is commonly used in the following applications:

Water Treatment: Sequestration of metal ions in industrial water treatment processes.

Industrial Cleaning: Formulation of cleaning agents to control metal ions.

Textile Industry: Use in textile processing and formulations requiring metal ion control.

Chemical Processing: Chelation of metal ions in various industrial processes.

Detergent Formulations: Use as a chelating agent in suitable industrial cleaning formulations.

Actual suitability depends on the specific formulation and process requirements.

4. Packaging

Standard Packaging: 25 kg per bag.

Other packaging options may be available upon request, subject to confirmation.

5. Storage and Handling

Store in a cool, dry, and well-ventilated area. Keep the packaging tightly sealed when not in use. Protect the product from moisture and contamination. Handle in accordance with applicable chemical safety procedures.

6. Shelf Life

Three years under recommended storage conditions in the original, unopened packaging.

7. Quality Assurance

Each batch is inspected according to the applicable product specifications. A batch-specific Certificate of Analysis (COA) can be provided to confirm compliance with the relevant quality requirements.

8. Disclaimer

The information provided in this document is based on the available product specifications and Certificate of Analysis. Users should evaluate the suitability of the product for their intended application before use. This document does not constitute a guarantee of suitability for any specific application.