



*Specialized in chemicals*

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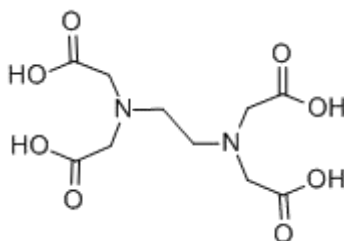
Site: www.tnjchem.com

## Technical Data Sheet

# Ethylenediaminetetraacetic Acid

### Product Information

Product Name	Ethylenediaminetetraacetic Acid
Synonyms	EDTA; Edetic acid; ethylenediamine-N,N,N',N'-tetraacetic acid;
CAS No.	60-00-4
EINECS No.	200-449-4
Molecular formula	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>
Molecular weight	292.24
Chemical structure	



### Physical Properties

Appearance	White crystal powder
Density	0.86 g/cm <sup>3</sup>
Melting Point	250 °C
Boiling Point	614.2 °C at 760 mmHg
Flashing Point	352.2 °C
Refractive Index	n <sub>20</sub> /D 1.3631(lit.)
Water solubility	0.5 g/L ( at 25 °C)

## Specification

### 1) Industrial Grade

Appearance	White crystal powder
Assay	≥99.00%
Chloride (Cl)	≤0.01%
Sulfate (SO <sub>4</sub> )	≤0.05%
Heavy Metal (Pb)	≤0.001%
Fe	≤0.001%
Loss on drying	≤0.2%
Chelating value	≥339mgCaCO <sub>3</sub> /g
PH	2.8 ~ 3.0

### 2) Cosmetics Grade

Appearance	White crystal powder
Assay	≥99.50%
Chloride (Cl)	≤0.01%
Sulfate (SO <sub>4</sub> )	≤0.05%
Heavy Metal (Pb)	≤0.001%
Fe	≤0.001%
Loss on drying	≤0.2%
Chelating value	≥339mgCaCO <sub>3</sub> /g
PH	2.8 ~ 3.0
NTA	≤0.1%

## Safety

EDTA is a stable material, not dangerous on transportation  
Always refer to the Material Safety Data Sheet (MSDS)

## Applications

As an agent for complexation, EDTA is mainly used for water treatment, as an additive to detergent, a chemical for photography, paper-making and oil-field.  
It is also used as detergent for boiler cleaning and reagent in chemical analysis.

**1) High molecular chemical industry:** EDTA is used as polymetization activator for butyl benzene latex, and polyreaction terminator in acrylic fibre production.

**2) Daily chemicals:** EDTA is used as additive to detergent, skin cream and hair-conditioner.

**3) Paper-making:** EDTA is used for treating the steamed fibre. It will promote the whiteness of paper and reduce the incrustation in the steamer.

**4) Pharmaceutical industry:** Through cyclopolymerization with methyl amide, EDTA is made into ethyl amide, a remedy for psoriasis. It is also a stabilizer for some vaccines and an antihemagglutinin.

**5) Textile dyeing and printing:**

EDTA will promote color ability of the dyestuff and brightness of the dyed fabric.

**Packaging**

25kg pp woven bag;

Total 18MT with pallets and 22MT without pallets per 20ft container

**Storage & Handling**

Store in a cool, dry place. Keep containers tightly closed.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and Disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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