

TETRA SODIUM E.D.T.A.

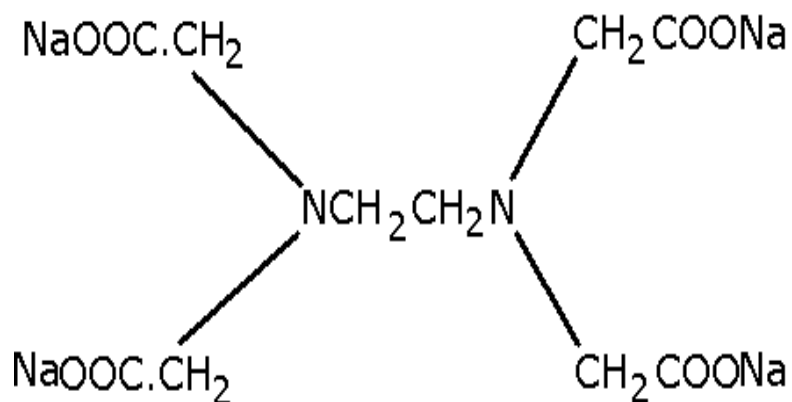
(E.D.T.A. TETRA SODIUM)  
(Industrial Grade) (Tetrahydrate)

(1) NOMENCLATURE : Edetate Tetra Sodium.  
: Ethylene Diamine Tetra Acetic Acid  
Tetra Sodium Salt.  
: Edetate Sodium

(2) EMPIRICAL FORMULA :  $C_{10} H_{12} N_2 Na_4 O_8, 4H_2O$

(3) CAS NO. : 13235-36-4 (Tetrahydrate)

(4) STRUCTURE



(5) MOL. WT. : 452.20 (Tetrahydrate)

(6) PHYSICAL PROPERTIES

MELTING RANGE : > 300°C  
(With Decomposition)

BULK DENSITY : 0.65 gm/cm<sup>3</sup> – 0.70 gm/cm<sup>3</sup>

(7) PRODUCT SPECIFICATIONS

DESCRIPTION : Pure White Sparkling Crystalline Material.  
: Slightly bitter in taste.  
: Free Flowing.

PURITY (ASSAY) (Complexometric)	:	Minimum 99.0%
WATER CONTENT (By K.F.)	:	10% - 16% w/w
HEAVY METALS (As Pb):		Not more than 0.001%
IRON (Fe)	:	Not more than 0.001%
CHLORIDES (CL)	:	Not more than 0.01%
SULPHATES (SO <sub>4</sub> )	:	Not more than 0.01%
PH (5% w/v Solution):		10.5 to 11.5
SOLUBILITY	:	Soluble in 10 parts of water : Insoluble in Chloroform & Ether.
COLOUR & CLARITY	:	10% w/w solution in CO <sub>2</sub> – free water is Clear and Colourless.
CHELATION VALUE	:	215 / 220 mg. CaCO <sub>3</sub> Per gm. of EDTA Tetra Sodium.
(8) PACKING	:	25 Kgs. LD Polythene Bag (800 guage) with double LDPE Liners.