

Technical Data Sheet

Version: 1.0
Page 1, Total 2

Date: 18 / 6 / 2026



Item Name:

EDTMP-Na5

PRODUCT INFORMATION

Chinese Name:	乙二胺四甲叉膦酸五钠
Commodity Name:	EDTMP-Na5
Chemical Name:	Penta Sodium Salt of Ethylene Diamine Tetra (Methylene Phosphonic Acid)
Other Name:	Ethylene Diamine Tetra (Methylene Phosphonic Acid) Pentasodium Salt
CAS No.:	7651-99-2
Molecular Weight:	546.13
Molecular Formula:	$C_6H_{15}N_2O_{12}P_4Na_5$

PRODUCT DESCRIPTION

EDTMP-Na5 is a neutral product. It is nitrogenous organic polyphosphonic acid, which is a part of cathodic corrosion inhibitor; EDTMP-Na5 can be fully dissolved in water, innocuous and none pollution to environment, has good chemical stability and thermal tolerance; EDTMP-Na5 has good scale inhibition property under temperature 200°C; EDTMP-Na5 can dissociate into 8 positive-negative ions, thus can chelate with more than two metal ions to form more than two polymer reticulation complex, the complex can be quickly dissolved in water to destroy the normal crystallization of calcium scale; EDTMP-Na5 shows better scale inhibition effects to calcium sulfate and barium sulfate.

TECHNICAL SPECIFICATION

Index	Standard
Appearance	Amber transparent liquid
Active acid (as EDTMPA) by wt %	24.0 - 26.0
Active content (as EDTMP-Na5) by wt %	30.0 - 32.6
Chloride (Cl ⁻) by wt %	2.0 max
Density (20°C) g/cm ³	1.25 min
Fe by mg/L	20.0 max
pH (1% water solution)	6 - 8

MAIN APPLICATION

EDTMP-Na5 can be used as scale and corrosion inhibitor for circulating water and boiler water system, chelating agent in non-cyanide electroplating, water-softening agent in dyeing industry, etc.

PACKING AND SHELF LIFE

Packing: Liquid: 200L plastic drum, IBC(1000L), customers' requirement.

Shelf Life: 24 months when stored in cool, dry and ventilated warehouse, away from incompatible materials.

DISCLAIMER

The information provided in this data sheets is for informational purposes only is considered reliable, but Rawchem doesn't guarantee how any other products associated with this information will behave in combination with variables to other matters. It's recommended to make adaptations to local working conditions and to the raw material to be used.

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Page 2, Total 2

Date: 18 / 6 / 2026



PRODUCT IMAGE

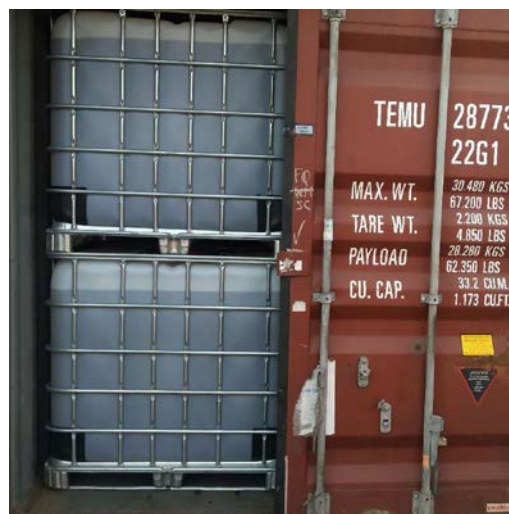


* The image shown here is indicative only. The actual product may differ.

PACKING, STORAGE AND LOADING



* IBC (1000L)



* Loading Pic

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