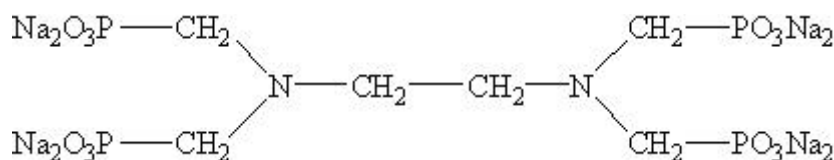


Ethylene Diamine Tetra (Methylene Phosphonic Acid) Sodium Salt (EDTMPS)



CAS No.	22036-77-7	EINECS No.	244-742-5
Molecular Formula	C ₆ H ₁₂ O ₁₂ N ₂ P ₄ Na ₈	Molecular Weight	612.13

Structural Formula



Product Features

EDTMPS is Octasodium salt of EDTMPA. EDTMPS is a cathodic corrosion inhibitor. Compared with inorganic polyphosphate, the corrosion inhibition rate is 3 to 5 times higher. It is miscible with water, non-toxic and non-polluting.

Technical Specification

Items	Index
Appearance	pale yellow transparent liquid
Active component (EDTMPS), %	28.0min
Phosphorous acid (as PO ₃ ³⁻), %	5.0max
Phosphoric acid (as PO ₄ ³⁻), %	1.0max
pH (1% water solution)	9.5-10.5
Density (20℃), g/cm ³	1.25min
Chloride(Cl ⁻), %	3.0max

Applications & Usage

EDTMPS is used in circulating cool water system and boiler water as corrosion inhibitor. EDTMPS is a chelating agent in non-cyanogen electroplating industry and a water-softening

agent in printing & dyeing industry. When EDTMPS is used alone, 2~10mg/L dosage is preferred. EDTMPS can also be used in combination with BTA, PAAS and zinc salt.




Scale & Corrosion Inhibition Performance

CaCO ₃ inhibition	CaSO ₄ inhibition	Ca ₃ (PO ₄) ₂ inhibition	CaC ₂ O ₄ inhibition	BaSO ₄ inhibition
Good	Very Good	Very Good	Good	Very Good
Calcium Tolerance	Iron Control	Sequestration	Steel corrosion inhibition	
Good	Yes	Excellent	Very Good	

Package & Storage

EDTMPS Liquid			
25L Drum	200L Drum	1000L IBC	ISO Tank
			
Storage for ten months in shady room and dry place.			

Hazard & Safety Precaution

Hazard Information	Safety Precaution
Not regulated	  
Once contacted with eye and skin, flush with plenty of clean water.	

Alternative Name / Synonyms

- EDTMPS, EDTMP, EDTMPA, EDTPO
- Ethylene Diamine Tetra (Methylene Phosphonic Acid) Sodium Salt
- ETHYLENEDIAMINE TETRA(METHYLENEPHOSPHONIC ACID)