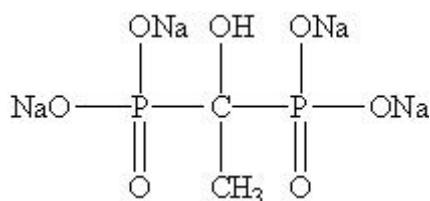


Tetra Sodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP.Na₄)



CAS No.	3794-83-0	EINECS No.	223-267-7
Molecular Formula	C ₂ H ₄ O ₇ P ₂ Na ₄	Molecular Weight	294

Structural Formula



Product Features

HEDP.Na₄ granule is the tetra sodium salt of HEDP. HEDP.Na₄ has excellent scale inhibition for calcium carbonate (CaCO₃) and chlorine stability.

HEDP.Na₄ granular form has excellent free flowing and handling properties. Very low dust content(dust-free solid). Finds use in Household detergents, I&I cleaners, etc. Can be easily tableted. HEDP.Na₄ granular form is ideal for solid grade formulations.

Technical Specification

Items	Index
Appearance	White granule
Active content (HEDP), %	57.0-63.0
Active content (HEDP•Na ₄), %	81.0-90.0
Moisture, %	10.0 max
Particle Size Distribution(<250μm), %	4.0 max
Particle Size Distribution(>800μm), %	5.0 max
Bulk(20°C), g/cm ³	0.70-1.10
PH (1% water solution)	11.0-12.0
Fe, mg/L	20.0 max

Applications & Usage

HEDP•Na₄ is widely used as scale and corrosion inhibitor in circulating water system, medium and low pressure boiler, oil field water pipelines, Household and I&I (industrial & institutional) cleaners, detergents.

In light woven industry, HEDP.Na₄ is used as detergent for metal and nonmetal.



In dyeing industry, HEDP.Na₄ is used as peroxide stabilizer and dye-fixing agent;

In non-cyanide electroplating, HEDP.Na₄ is used as chelating agent.

Scale & Corrosion Inhibition Performance

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

Package & Storage

HEDP.Na ₄ Granule	
25kg Bag	1000KG/Big Bag
	
Once contacted with eye and skin, flush with plenty of clean water.	

Hazard & Safety Precaution

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

Alternative Name / Synonyms

- Disodium Etidronate Hydrate;
- Disodium dihydrogen bisphosphonate (1-hydroxyethylidene)bisphosphonate

HEDP.Na₄ related products

- Disodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid
- 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP)
- Disodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP•Na₂)
- Potassium salt of 1-HydroxyEthylidene-1,1-Diphosphonic Acid (HEDP•Kx)