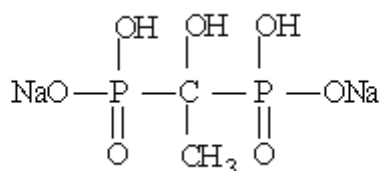


# Disodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP•Na<sub>2</sub>)

CAS No. 7414-83-7

Molecular Formula: C<sub>2</sub>H<sub>6</sub>O<sub>7</sub>P<sub>2</sub>Na<sub>2</sub>      Molecular weight: 250

Structural Formula:



## Properties:

**HEDP•Na<sub>2</sub>** is an organophosphonic acid corrosion inhibitor, it can chelate with Fe, Cu, and Zn ions, it can dissolve the oxidized materials, it has good scale and corrosion inhibition effects even under 250°C, it is stable under high pH value, not easy to be hydrolyzed, not easy to be decomposed under normal light and heat condition, its acid/alkaline and chloride oxidation tolerance are better than that of other organophosphonic acids. **HEDP•Na<sub>2</sub>** can form six-ring chelating compounds with metal ions in water system, Ca<sup>2+</sup> in particular. **HEDP•Na<sub>2</sub>** has good scale inhibition effects and obvious dissolution threshold effects. When used with other Water Treatment Chemicals, the synergistic effects is better.

## Specification:

Items	Index	
Appearance	Colorless to light yellow transparent liquid	White powder
Active component(HEDP), %	16.5 min	74.0-79.0
Active content(HEDP•Na <sub>2</sub> ), %	20.0 min	89.8 min
Density (20°C), g/cm <sup>3</sup>	1.12-1.22	--

Fe, mg/L	--	20 max
Phosphorous acid (PO <sub>3</sub> <sup>3-</sup> ), %	--	3 max
Moisture, %	--	3.0-6.0
PH (1% water solution)	4.0-6.0	4.0-6.0

## Usage:

[HEDP•Na2](#) is widely used in circulating cool water system, medium and low pressure boiler, oil field water pipelines as scale and corrosion inhibitor in fields such as electric power, chemical industry, metallurgy, fertilizer, etc.. In light woven industry, [HEDP•Na2](#) is used as detergent for metal and nonmetal. In dyeing industry, [HEDP•Na2](#) is used as peroxide stabilizer and dye-fixing agent; In non-cyanide electroplating, [HEDP•Na2](#) is used as chelating agent.

## Package and Storage:

Liquid: 200L plastic drum,IBC(1000L),customers' requirement. Storage for ten months in shady room and dry place.

Solid: 25kg/bag,customers' requirement. Storage for ten months in shady room and dry place.

## Safety Protection:

Weak acidity, Avoid contact with eye and skin, once contacted, flush with water.

## Synonyms:

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

Keywords: [HEDP•Na2](#)

Related Products:

[Disodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid](#)

[Tetra Sodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid \(HEDP•Na4\)](#)

[1-Hydroxy Ethylidene-1,1-Diphosphonic Acid \(HEDP\)](#)

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