



Dongguan Baoxu Chemical Technology, Ltd.

P:+86-0769-22821082 Fax:0769-22821083

Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

8th Chenwu East Road, Houjie Town, Dongguan City, Guangdong Province, China

---

# HEDP Na<sub>4</sub>(Sodium Salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid)

## Properties

CAS No. 29329-71-3 (x-Na), 3794-83-0 (4-Na)

Synonyms: Tetrasodium etidronate, HEDP 4Na, Tetrasodium (1-hydroxyethylidene)bisphosphonate

Molecular Formula: C<sub>2</sub>H<sub>4</sub>O<sub>7</sub>P<sub>2</sub>Na<sub>4</sub>

Molecular weight: 294

Structural Formula:

## Introduction

HEDP•Na<sub>4</sub> (similar to Request 2016) is the sodium salt of HEDP, HEDP•Na<sub>4</sub> is a good scale inhibitor for calcium carbonate, it can be used in low-pressure boiler water systems, circulating water systems, industrial and municipal cleaning water systems, and swimming pools.

The solid HEDP•Na<sub>4</sub> is a white powder, soluble in water, easily deliquescent, and suitable for use in winter and freezing districts. It is a kind of organophosphonic acid scale and corrosion inhibitor, can form stable complexes with Fe, Cu, and Zn ions, it can dissolve the oxides on the metal surface, it has a good scale and corrosion inhibition effect under 250°C.

HEDP•Na<sub>4</sub> is widely used in circulating cool water systems, medium and low-pressure boilers, and oil field water pipelines as a scale and corrosion inhibitor in fields such as electric power, chemical industry, metallurgy, fertilizer, etc. In

---

The information and statement herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility, Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made.



Dongguan Baoxu Chemical Technology, Ltd.

P:+86-0769-22821082 Fax:0769-22821083

Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

8th Chenwu East Road, Houjie Town, Dongguan City, Guangdong Province, China

the light woven industry, HEDP•Na<sub>4</sub> is used as a detergent for metal and nonmetal. In the dyeing industry, HEDP•Na<sub>4</sub> is used as a peroxide stabilizer and dye-fixing agent; In non-cyanide electroplating, HEDP•Na<sub>4</sub> is used as a chelating agent.

## Specification:

Items	Index
Appearance	Colorless to yellowish transparent liquid
Active content (HEDP)%	20.3-21.7
Active content (HEDP•Na <sub>4</sub> )%	29.0-31.0
Total phosphoric acid (as PO <sub>4</sub> <sup>3-</sup> ) %	18.4-20.4
Fe, mg/L	20.0 max
Moisture, %	--
Density (20°C)g/cm <sup>3</sup>	1.26-1.36
PH (1% water solution)	10.0-12.0

## Package and Storage:

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

## Safety Protection:

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

---

The information and statement herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility, Users should undertake sufficient verification and testing to determine the suitable for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made.