

## Tetra sodium of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid



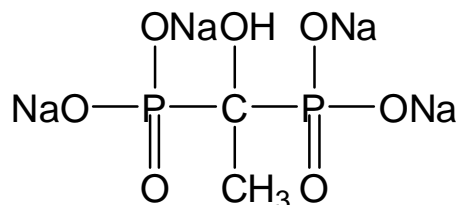
CAS No. 29329-71-3 (x-Na), 3794-83-0 (4-Na)

Dequest 2016/2016DG

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:



### Properties:

Dequest 2016 is the sodium salt of Dequest 2010, HEDP • Na<sub>4</sub> is an good scale inhibitor for calcium carbonate, it can be used in low pressure boiler water system, circulating water system, industrial and municipal cleaning water system and swimming pool.

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

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

### Specification:

items	index	
Appearance	White powder	Colorless to light yellow transparent liquid
Active component (HEDP) %	56.0min	20.3-21.7
Active component (HEDP•Na <sub>4</sub> ) %	79.9min	29.0-31.0
Total phosphoric acid (as PO <sub>4</sub> <sup>3-</sup> ) %	52.0-54.0	18.4-20.4
Fe, ppm	35.0max	20max
Dry weight loss, %	15max	--
density (20°C) g/cm <sup>3</sup>	--	1.26-1.36
PH	11.0-12.0 (1% water solution)	10.0-12.0 (as it)

**Package and Storage:**

For liquid: Normally In 250kg net Plastic Drum, IBC drum can also be used as required.

For solid: inner liner polyethylene (PE) bag, outer plastic woven bag, or confirmed by clients.

Storage for ten months in room shady and dry place.

**Safety Protection:**

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