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Technical Description Of HEDP

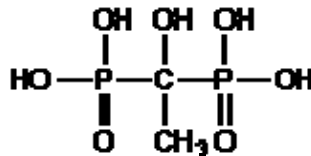
Chemical Name: 1-Hydroxyethylidene-1,1-Diphosphonic Acid
Abbreviation: HEDP
Number CAS: 2809-21-4
Number EINECS: 220-552-8

Molecular Formula: $C_2H_8O_7P_2$

Commercial Form: White powder

Molecular Weight: 206

Structural Formula:



PHYSICAL AND CHEMICAL PROPERTIES: Specific gravity: 1.45 @ 20 C
pH: <2.0 Conditions 10 g/l @ 25 C
Freezing point: -25 C
Water solubility: completely miscible

Application Notes: Noted for its excellent CaCO₃ scale inhibition and chlorine stability.

Recommended Uses: Cooling water treatment, boiler treatment, I & I cleaners, swimming pool stain prevention, metal ion control.

Product Specification

Characteristics:

Limits :

Appearance	White crystalline powder.
Active content (%)	90.0 minimum
Active content (as HEDP. H ₂ O %)	98.0 minimum
pH (1% solution) @20 °C	2.0 maximum
Iron content (Fe ppm)	35.0 maximum
Phosphorous acid as PO ₃ (%)	2.5 maximum
Phosphoric acid as PO ₄ (%)	0.7 maximum
Chloride as Cl (%w/w)	1.0 maximum