Shandong Green Technologies Co., Ltd.

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GREPHOS 100

1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP)

CAS No.: 2809-21-4

Molecular Formula: $C_2H_8O_7P_2$ Molecular weight: 206.02

Properties:

GREPHOS 100 is an organophosphoric acid corrosion inhibitor. It can chelate with Fe, Cu, and Zn ions to form stable chelating compounds. It can dissolve the oxidized materials on these metals' surfaces. GREPHOS 100 shows excellent scale and corrosion inhibition effects under temperature 250℃. GREPHOS 100 has good chemical stability under high pH value, hard to be hydrolyzed, and hard to be decomposed under ordinary light and heat conditions. Its acid/alkali and chlorine oxidation tolerance are better than that of other organophosphoric acids (salt). GREPHOS 100 has good antiscale and visible threshold effects. When built together with other water treatment chemicals, it shows good synergistic effects.

Specification:

Item	Index
Appearance	Pale yellow transparent liquid
Active Content (as acid) %	58.0-62.0
Phosphorous Acid (as P033-) %	< 2.0
Phosphoric Acid (as PO43-) %	< 0.8
Chloride (as Cl) %	< 0.02
Ph (1% water solution)	< 2.0
Density (20 C) g/cm3	1.42-1.47
Fe (as Fe2+) mg/L	< 20.0

Usage:

HEDP is used as scale and corrosion inhibition in circulating cool water systems, oil fields and low-pressure boilers in fields such as electric power, chemical industry, metallurgy, fertilizer, etc. In the light woven industry, GREPHOS 100 is used as

detergent for metal and nonmetal. In the dyeing industry, GREPHOS 100 is used as peroxide stabilizer and dye-fixing agent; In non-cyanide electroplating, it is used as chelating agent. The dosage of 1-10mg/L is preferred as scale inhibitor, 10-50mg/L as corrosion inhibitor, and 1000-2000mg/L as detergent. Usually, GREPHOS 100 is used together with Poly carboxylic acid.

Package and Storage:

200L plastic drum or 1000L IBC

Store products in a shady and dry place away from direct sunlight.

Safety Protection:

Acidic substance. Avoid contact with eye and skin. Once contacted, flush with water.