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Britequest HEDP

1-Hydroxy Ethylidene-1, 1-Di Phosphonic acid

CAS nr: 2809-21-4 EINECS nr: 220-552-8

Product information

Synonyms: HEDPA, OEDP, Etidronic acid, Hydroxyethylidene Diphosphonic acid; 1-Hydroxy-1,1-

Ethanediyl ester; Oxyethylidenediphosphonic Acid;

Phosphonic acid, [[bis[2-[bis(phosphonomethyl)amino]ethyl]amino]methyl]-; C₂H₈O₇P₂

Britequest HEDP and the lower priced <u>Britequest ATMP</u> are the most common of phosphonic acids. Britequest HEDP is an excellent chelating agent, inhibiting scaling right from the start. Especially effective on ions of Fe, Cu, Zn. At temperatures up to 250°C, Britequest HEDP is anti-corrosive. It is chemically stable up to high pH values and hard to hydrolyse. Compared to Britequest ATMP, Britequest HEDP has better compatibility with Chlorine.

Applications are industrial cooling water, boilers and oil refineries. In the dye industrie, because of its high purity, Britequest HEDP is used to treat metal surfaces. Normally the 60% solution is used. The solid Britequest HEDP-98% is suitable in regions with temperatures below zero.

Commercial

Packaging 60% solution:

25liter jerrycans, 250kg (200liter) drums, 1250kg (1000liter) IBC, 24mt ISO tank container (bulk)

Packaging 98% crystals:

25kg bags

Lead time solution in IBC's:

1 week

Lead time other packaging:

6 weeks

Lead time powder:

8 weeks

Product specifications

	60%-solution	98%-crystals
Appearance	pale yellow transparent liquid	white crystal powder
Active content (as acid), %	58.0 - 62.0	98.0 min
Phosporous acid (PO ₃ ³⁻), %	1.0 max	0.8 max
Phosporic acid (PO ₄ ³⁻), %	0.6 max	0.5 max
Acetic acid, %	0.5 max	-
Colour APHA (Hazen)	30.0 max	-
Chloride (as Cl), ppm	100.0 max	50.0 max
Iron (as Fe), ppm	10.0 max	5 max
pH (1% solution)	2.0 max	2.0 max
Density (20°C), g/cm3	1.43 - 1.47	-
Ca sequestration, mg CaC03/g	500.0 min	-

Change specifications

Technical

Anti-scaling dosage: 1-10 mg/l. Anti corrosion dosage: 10-50 mg/l. Detergent dosage: 1000-2000mg/l.

Britequest is often used together with poly carboxylic acid.

In more extreme conditions of high alkaline, high water hardness, high temperature, high salt concentrations and high turbidity, it is advised to use specialty products such as Britequest PAPEMP.

For even higher chlorine stability, Britequest PBTC is preferred.

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