JIYUAN QINGYUAN WATER TREATMENT CO., LTD

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Product Information:

Chemical Name	2-Phosphonobutane - 1,2,4 - tricarboxylic acid
Abbreviation	PBTC---NSF Grade (PBTC is certified by NSF.)
Molecular Formula	$C_7H_{11}O_9P$
Molecular Weight	270
CAS Number	37971-36-1
Application Notes	PBTC controls scale where halogen-based biocides or hypochlorite bleach are employed. Controls calcium scale formation in high stressed alkaline conditions. Its antiscale property under high temperature is far better than that of organophosphines. It can improve zinc salt solubility, has good chlorine oxidation tolerance and good composite synergy.
Recommended Uses	PBTC has been widely used in industry as a sequestering agent and calcium carbonate scale inhibitor for applications in industrial water treatment and industrial cleaning. It is usually used together with zinc salt, copolymer, organophosphine, imidazole and other Water Treatment Chemicals. When used alone, the dosage of 5-15mg/L is preferred.

Product Specification:

Items	Index
Appearance	Water white to pale yellow liquid
Active Acid (%)	49.0 - 51.0
Phosphorous acid as PO_3^{3-} (%)	0.5 max
Phosphoric acid as PO_4^{3-} (%)	0.2 max
PH(1% solution)	1.5-2.0
Density at 20°C, g/cm^3	1.270 min
Iron, as Fe (ppm)	10.0 max
Chloride (as Cl-,ppm)	10.0 max
Colour APHA(Hazen)	50 max

Package and Storage:

Normally in 200L HDPE drum, 1000L IBC and ISO TANK.

Storage for 1 year in room shady and dry place.

Safety Protection:

Acidity, avoid contact with eye and skin, once contacted, flush with plenty water.