



## 2-PHOSPHONOBUTANE -1, 2, 4- TRICARBOXYLIC ACID [PBTCA]

### **SYNONYMS:**

PBTCA; PBTC; PHOSPHONOBUTANE TRICARBOXYLIC ACID; 2-Phosphonobutane -1 ,2,4-Tricarboxylic Acid; 2-Phosphonobutane-1,2,4-tricarboxylic acid PBTC

**CAS No:** 37971-36-1

**MOLECULAR FORMULA:** C<sub>7</sub>H<sub>11</sub>O<sub>9</sub>P

**OTHER TRADE NAME:** Belclene 650

### **PROPERTIES:**

PBTC is a 50% aqueous solution of 2-phosphonobutane-1, 2, 4-tricarboxylic acid (PBTC) designed to control calcium scale formation and precipitation in highly stressed alkaline Industrial Water Treatment (IWT) and boiler systems. 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.

### **SPECIFICATION:**

Appearance	Clear, Colorless to pale yellow aqueous solution
Active Content (as PBTC)	49.0 - 51.0%
Phosphorous acid (as PO <sub>3</sub> <sup>3-</sup> )	0.5% max
Phosphoric acid (as Po <sub>4</sub> <sup>3-</sup> )	0.2% max
pH (1% solution)	1.5 - 1.9
Density (20° C) g/cm <sup>3</sup>	1.27 - 1.31
Iron(as Fe)	10.0ppm max.
Chlorides (as CL <sup>-</sup> )	10.0ppm max.

### **USAGE:**

It is mainly used as Scale & Corrosion Inhibitor in Cooling, Boiler & Field Water Treatment .

### **PACKING:**

200Kgs Net Drum.