



## TECHNICAL DATA SHEET

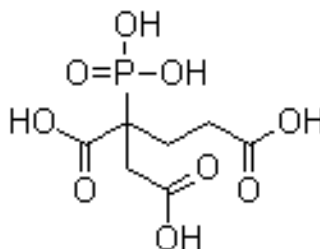
**NAME OF COMMODITY:** 2-Phosphonobutane-1,2,4-tricarboxylic acid (PBTCA)

**CAS NO.:** 37971-36-1

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

**MOLECULAR WEIGHT:** 270.13

**STRUCTURE FORMULA:**



**UN NO.:** 3265

**CLASS:** 8

**PG:** III

TESTS	SPECIFICATIONS
Appearance	Clear, Colorless To Pale Yellow Aqueous Solution
Active Acid	50% min
Phosphorous Acid (as PO <sub>3</sub> -3)	0.8% max
Phosphoric Acid (as PO <sub>4</sub> -3)	0.5% max
pH (1% H <sub>2</sub> O Solution)	1.5 - 2
Fe	10 ppm max

### APPLICATIONS:

PBTCA is a high efficient agent as scale and corrosion inhibitor. PBTCA is the excellent stabilizer for zinc salt. It is widely used in circulating cooling water systems and oilfield refill water system as scale and corrosion inhibitor, suitable to composite with zinc salt and copolymer.

PBTCA can be used in situations of high temperature, high water hardness, high alkali and concentration index. In lavation fields, it is used as chelating agent and metal detergent.

PBTCA is usually used together with zinc salt, copolymer, organo-phosphine, imidazole and other water treatment chemicals. When used alone, the dosage of 5-15mg/L is preferred.

**PACKING:** net 250kg drum; 20mt / 20' fcl, palletized