



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

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Phosphonates

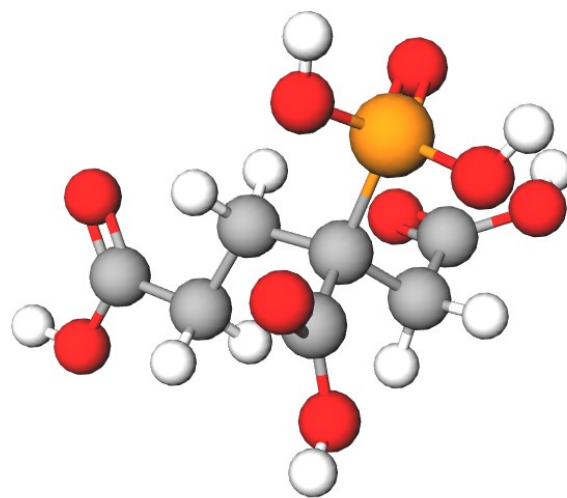
Technical Data Sheet

PHOSPHONOBUTANE TRICARBOXYLIC ACID

Phosphonobutane Tricarboxylic Acid, or **PBTC**, has structural features of both phosphoric acid and carboxylic acid groups, which enable its excellent scale and corrosion inhibition properties. Its antiscaling 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. PBTC is used primarily as a corrosion inhibitor in boiler feed water, but has important applications as a chemical intermediate in insecticides, dry cleaning soaps, gas absorbents, rubber chemicals and plasticizers as well. CAS# 37971-36-1

Technical Specifications: C₇H₁₁O₉P

Appearance	Colorless to pale yellow liquid
Active Acid Content, %	50% min
pH (1% solution)	1.5 - 2.5
Specific Gravity @ 25°C	1.270 - 1.310
Freezing Point, °C	-15°C
Chloride (Cl), ppm	10 ppm max
Iron (Fe), ppm	5 ppm max
Phosphorous Acid, % PO ₃	0.5% max
Color, APHA	100 max



Packaging: Available in 551lb drums and 2755lb totes. Small packs available by request.

Storage: Store in a cool, dry area. Keep containers closed when not in use.

Shelf Life: At least three years if properly stored in unopened container.

Safety: PBTC is corrosive to the skin and eyes. Inhalation of vapors may irritate the respiratory tract. Flammable. Refer to MSDS for additional precautions.



PBTC – Technical Data Sheet