



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

609 E. King St.
York, PA 17403

Phone: (717) 845-8646
Email: north@northmetal.net
Web: www.northmetal.net

Phosphonates

Technical Data Sheet

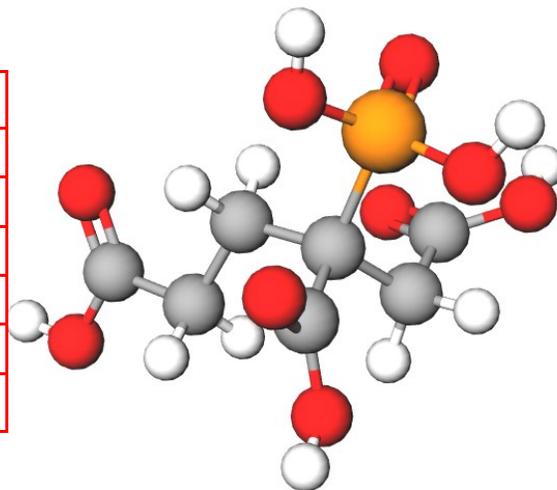
TETRA SODIUM SALT OF PHOSPHONOBUTANE TRICARBOXYLIC ACID

NorthQuest 6504

Neutralized Phosphonobutane Tricarboxylic Acid, or **PBTC-Na₄**, 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# 40372-66-5

Technical Specifications: C₇H₁₁O₉P-Na₄

Appearance	Colorless to pale yellow liquid
Active Acid Content, %	30.0% min
Active Content as PBTC-Na ₄ , %	40.0% min
pH (1% solution)	8.5-11.5
Specific Gravity @ 25°C	1.35 min
Iron (Fe), ppm	35 ppm max
Total Phosphoric Acid, % PO ₄	10.5 min



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 five years if properly stored in unopened container.

Safety: Refer to SDS for safety information.



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