



NORTH METAL & CHEMICAL COMPANY
World Class Molybdenum & Tungsten Compounds

609 E. King St.
 York, PA 17403

Since 1921

Phone: (717) 845-8648
 Email: north@nmc-nic.com
 Web: www.northmetal.net

Phosphonates

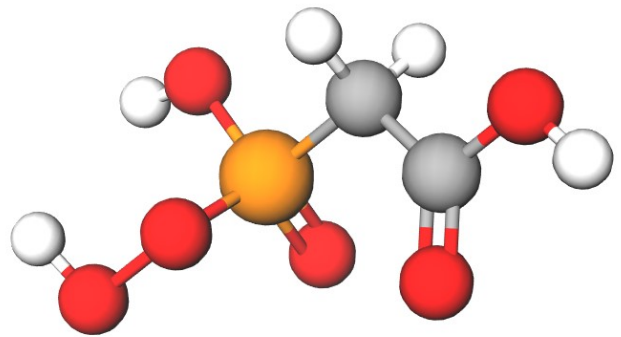
Technical Data Sheet

HYDROXYPHOSPHONO ACETIC ACID

Hydroxyphosphono Acetic Acid, **HPAA**, is an organic, viscous dark brown 50% active solution that is soluble in water, ethylene, methanol, and 50% caustic soda. HPAA is used as a corrosion inhibitor for mild steel in cooling water treatment programs. CAS#: 23783-26-8

Technical Specifications: C₂H₃O₆P

Appearance	Brown Viscous Liquid
Solids Content, %	50% min
pH (1% solution)	1.0 - 2.5
Specific Gravity @ 25°C	1.30 - 1.50
Freezing Point, °C	-5°C
Phosphonate, %	30% min
Phosphoric Acid, as PO ₄	2% max
Phosphorous Acid, % PO ₃	3% max
Color, Gardner	20 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 five years if properly stored in unopened container.
Safety: HPAA is corrosive to the skin and eyes. Refer to MSDS for additional precautions.



HPAA – Technical Data Sheet