Hydroxyethylidene Diphosphonic Acid (HEDP)
High-Performance Scale & Corrosion Inhibitor

Hydroxyethylidene diphosphonic acid (HEDP) is a high-purity, water-soluble phosphonate widely used as a scale and corrosion inhibitor in industrial water treatment and specialty chemical applications. Known for its stability, strong chelating ability, and compatibility with a wide range of systems, HEDP supports performance-driven formulations in cooling water, boiler water, oilfield operations, and other industrial processes.

SMC Global's HEDP 60% solution is NSF certified and meets the NSF 60 standard for water treatment, including use as a reverse osmosis (RO) antiscalant and distillation antiscalant. This certification confirms product safety, quality, and compliance for applications involving drinking water systems.

SMC Global is a trusted supplier of high-quality HEDP, supported by reliable logistics, U.S.-based sourcing, and technical expertise.

Why Choose HEDP?

• Highly effective scale and corrosion control
• Water-soluble, stable, and easy to handle
• Strong chelating properties for metal ion control
• NSF 60 certified option available for regulated applications
• Compatible with a wide range of industrial and water treatment systems

Key Uses

Industrial Water Treatment
Acts as a scale inhibitor and corrosion control agent in cooling towers, boilers, and industrial water systems.

Reverse Osmosis & Distillation Systems
Meets requirements for use as a reverse osmosis antiscalant and distillation antiscalant in potable water applications.

Oilfield & Gas Applications
Prevents scale deposition and corrosion in oilfield water systems.

Metalworking & Industrial Fluids
Supports corrosion inhibition and metal ion control in metalworking fluids.

Cleaning & Descaling Applications
Used in cleaning formulations to remove mineral deposits and prevent scale buildup.

Specialty Chemical Formulations
Serves as a stabilizer and functional additive in chemical processes requiring chelation and scale inhibition.