

VerdiPhos H60

HEDP 60% | PRODUCT DATA SHEET

Chemical name	1-Hydroxyethylidene-1,1-diphosphonic acid
Common name	Etidronic Acid
CAS No.	2809-21-4
Molecular formula	C ₂ H ₈ O ₇ P ₂
Molecular weight	206.02 g/mol
Physical form	Clear, colorless to pale yellow aqueous solution

PRODUCT DESCRIPTION

VerdiPhos H60 is a concentrated aqueous grade of HEDP, an organophosphonate used for scale control, metal-ion sequestration and corrosion-control programs. It combines strong chelation with good hydrolytic and thermal stability.

TYPICAL TECHNICAL SPECIFICATIONS

Parameter	Unit	Specification
Active acid (HEDP)	%	60.0 ± 2.0
Phosphorous acid (as PO₃³⁻)	%	2.0 max
Phosphoric acid (as PO₄³⁻)	%	0.8 max
Chloride (as Cl⁻)	%	0.02 max
pH (1% aqueous solution)	—	2.0 max
Density at 20°C	g/cm ³	1.40 min
Iron (Fe)	mg/L	20.0 max
Ca sequestration (as CaCO₃)	mg/g	500 min

Key applications	Industrial cooling-water and recirculating-water treatment • Boiler and process-water scale inhibition • Metal-ion sequestration and threshold inhibition • Detergent and industrial-cleaner formulations • Peroxide stabilization and textile processing • Non-cyanide electroplating and metal-surface treatment
Storage & handling	Store tightly closed in a cool, dry, well-ventilated area away from incompatible materials. Protect from contamination and excessive heat. Use suitable corrosion-resistant handling equipment.

Specification note: Values are presented as typical technical specifications for the stated grade and should be confirmed against the current Certificate of Analysis (COA) for the supplied batch. Product performance depends on formulation, water chemistry and process conditions.



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