



Verdion Bio-Chelates Pvt. Ltd.



W-3075, Akshar Business Park,
Plot No. 3, Sector 25, Vashi,
Navi Mumbai - 400 703,
Maharashtra. India.

VerdiPhos H4Na

HEDP 4Na • TETRASODIUM SALT • POWDER

Chemical name	Tetrasodium salt of 1-Hydroxyethylidene-1,1-diphosphonic acid
Common name	HEDP-4Na / Tetrasodium Etidronate
CAS No.	3794-83-0
Molecular formula	$C_2H_4Na_4O_7P_2$
Molecular weight	293.96 g/mol
Physical form	White crystalline powder

PRODUCT DESCRIPTION

VerdiPhos H4Na is the tetrasodium salt of HEDP supplied as a water-soluble solid. Its alkaline salt form is designed for scale control, metal-ion complexing and corrosion-control formulations where a sodium phosphonate powder is preferred.

TYPICAL TECHNICAL SPECIFICATIONS

Parameter	Unit	Specification
Active content (as HEDP)	%	56.0 min
Active content (as HEDP-4Na)	%	80.0 min
Total phosphoric acid (as PO_4^{3-})	%	52.0 min
Iron (Fe)	mg/L	20 max
Moisture / loss on drying	%	15 max
pH (1% aqueous solution)	—	11.0 - 12.0

Key applications

Cooling-water and boiler-water treatment • Industrial and municipal cleaning • Oilfield water pipelines • Detergent formulations • Textile bleaching and dye-fixing • Non-cyanide electroplating

Storage & handling

Store under roof in tightly closed moisture-resistant bags or containers. Protect from direct sunlight, humidity and contamination. The solid is hygroscopic.

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.



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