



Verdion Bio-Chelates Pvt. Ltd.



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VerdiPhos H4Na-G

HEDP 4Na • TETRASODIUM SALT • GRANULE

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 to off-white granular solid

PRODUCT DESCRIPTION

VerdiPhos H4Na-G is a granular HEDP tetrasodium salt designed for improved flow, dosing and handling compared with fine powders. It provides the alkaline, water-soluble phosphonate performance of HEDP-4Na in a granular format.

TYPICAL TECHNICAL SPECIFICATIONS

Parameter	Unit	Specification
Active content (as HEDP)	%	58.0 - 62.0
Active content (as HEDP-4Na)	%	82.8 - 88.5
Iron (Fe)	ppm	≤ 35
Loss on drying	%	≤ 15.0
pH (1% aqueous solution)	—	11.0 - 12.0
Solubility	—	Soluble in water

Key applications

Detergent and cleaning formulations • Industrial water treatment • Boiler and cooling-water scale control • Textile and dyeing processes • Paper and pulp processing • Formulated solid water-treatment products

Storage & handling

Store in a cool, dry, covered area in sealed moisture-resistant packaging. Protect from humidity, direct sunlight and contamination.

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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