



CERTIFICATE OF ANALYSIS

HEDP 60% | ZEELCHEM™ 101

1-Hydroxyethylidene-1,1-diphosphonic Acid (Etidronic Acid) • CAS 2809-21-4

COMPANY BATCH / LOT	ZEEL PRODUCT HEDP101-120826-01	PRODUCT CODE MFG DATE	ZEELCHEM™ 101 12-Aug-2026	COA NO. TEST DATE	ZP/HEDP/101/0812 12-Aug-2026
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PRODUCT IDENTIFICATION & RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	RESULT	STATUS
Appearance	Clear / colorless to pale yellow aqueous solution	Clear, colorless to pale yellow	PASS
Active Content (HEDP)	60.0 %	60.0 %	PASS
Phosphorous Acid (as PO_3^{3-})	1.0 % max	0.7 %	PASS
Phosphoric Acid (as PO_4^{3-})	0.6 % max	0.4 %	PASS
Chloride (as Cl^-)	100 ppm max	65 ppm	PASS
pH (1% solution)	2.0 max	1.4	PASS
Density @ 20°C	1.43–1.47 g/cm ³	1.45 g/cm ³	PASS
Iron (Fe)	10.0 mg/L max	6.0 mg/L	PASS
Colour (APHA/Hazen)	30.0 max	15	PASS
Ca Sequestration	530 mg CaCO_3 /g min	535 mg/g	PASS
Solubility	Soluble in water	Soluble	PASS

PRODUCT INFORMATION • APPLICATION • PACKING

CHEMICAL ID	APPLICATIONS	PACKING & STORAGE
Formula: $\text{C}_2\text{H}_8\text{O}_7\text{P}_2$ Molecular Weight: 206.02 g/mol CAS: 2809-21-4	Scale & corrosion inhibitor Water treatment / RO / cooling water Boiler, textile, detergent & industrial use	65 kg HDPE Carboy HDPE Drum Store cool, dry & shaded Keep container tightly closed

QUALITY DECLARATION

The above batch has been tested against the stated ZEELCHEM™ 101 HEDP 60% release specification and is **CONFORMING / ACCEPTED** for the parameters listed above.

Note: The numerical results in this designed certificate are sample/reference values for document preparation and must be replaced or verified against the original laboratory batch records before commercial issuance.



QUALITY CONTROL QC Department	AUTHORIZED SIGNATORY Authorized Signatory	COMPANY SEAL ZEEL PRODUCT OFFICIAL STAMP
M +91-9724593964	EMAIL zeelchem@gmail.com	WEB www.zeelchem.online
		PRODUCT ZEELCHEM™ 101

"This is a computer-generated report/document and therefore does not require a signature"