

HEDP Tetrasodium 30% Solution

Aqueous tetrasodium etidronate for metal-ion sequestration and scale-control formulations.

CAS 3794-83-0	EC 223-267-7	Transport Not regulated · reference 30% solution
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Product Information

HEDP tetrasodium solution is the sodium salt form of hydroxyethylidene diphosphonic acid. The active content is reported both as HEDP acid equivalent and as the tetrasodium salt; these values describe the same concentrate on different mass bases. The documented liquid grade has alkaline pH and defined density conditions. Selection depends on water chemistry, compatibility and the intended treatment program. Do not substitute the solid salt or HEDP acid SDS for this approximately 30% aqueous concentrate.

Specifications

Parameter	Specification
Appearance	Colorless to yellow transparent liquid
Active content, as HEDP	20.3–21.7 %
Active content, as HEDP-Na4	29.0–31.0 %
Iron	≤25 ppm
pH, 1% solution	11.0–12.0
Density, 20°C	1.26–1.36 g/cm ³

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₂ H ₄ Na ₄ O ₇ P ₂
Molecular weight (component)	293.96 g/mol

Applications

Water-treatment formulations: Use as a phosphonate component in appropriate scale-control and sequestration systems.

Industrial cleaning: Evaluate the alkaline salt solution as a chelating component in compatible cleaning systems.

Peroxide formulation support: Assess HEDP tetrasodium in suitable peroxide-stabilizing or industrial processing formulations.

Packaging / Storage

Item	Information
Packaging	250 kg plastic drums.
Storage	Keep closed in a shaded, dry area at room temperature. Source storage period: ten months.
Shelf life	Ten months under the specified storage conditions.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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