

Hypophosphorous Acid

Aqueous reducing acid for industrial hypophosphite synthesis, chemical processing and qualified surface-treatment formulations.

CAS 6303-21-5	EC 228-601-5	Transport Class 8 · UN 3264 · PG II
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Product Information

Two aqueous grades are listed separately. Density applies only to the 50–52% grade; the test temperature was not specified. Avoid heat, contamination and strong oxidizers. Review the reference SDS before transfer or dilution. Color, iron and chloride comparisons are not guaranteed supply limits unless agreed in the quotation.

Specifications

Parameter	Specification
Appearance	Clear, colorless liquid
Hypophosphorous acid, standard grade	50–52 %
Hypophosphorous acid, concentrated grade	≥65 %
Phosphorous acid impurity, both grades	≤0.5 %
Density, standard grade only	1.200–1.265 g/mL; temperature not specified

Product Series

Standard aqueous grade	50–52% H ₃ PO ₂ ; phosphorous acid impurity ≤0.5%; stated density applies only to this grade.
Concentrated aqueous grade	H ₃ PO ₂ ≥65%; phosphorous acid impurity ≤0.5%. No density, color or chloride limit is assigned from the standard grade.

Typical Properties

Property	Typical Value
Molecular formula (component)	H ₃ PO ₂
Molecular weight (component)	65.98 g/mol

Applications

Hypophosphite manufacture: Use as a reducing phosphorus feedstock in professionally designed hypophosphite manufacture.

Surface-treatment formulation: Evaluate as a reducing component in qualified industrial surface-treatment chemistry.

Chemical process development: Assess reducing-agent or molecular-weight-regulation applications through controlled development.

Packaging / Storage

Item	Information
Packaging	50 kg or 225 kg plastic drums; 1,000 kg IBCs. Confirm compatible authorized packaging for the actual shipment.
Storage	Keep tightly closed in a cool, ventilated area with corrosion-resistant containment. Separate from strong oxidizers, bases and heat; prevent contamination and uncontrolled reaction.
Market / use restrictions	For professional industrial use only. Hypophosphorous acid and its salts are US DEA List I chemicals (21 CFR 1310.02). Supply, import, export and use are subject to the destination market's applicable registration, recordkeeping, reporting and transaction requirements. Confirm the end use and destination before ordering.

Company Contact

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