

Phosphoric Acid 70%

Concentrated aqueous phosphoric acid for metal treatment and phosphate manufacture.

CAS No. 7664-38-2	EC / List No. 231-633-2	Transport Class 8 — Corrosive
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Product Information

Phosphoric acid is an inorganic phosphorus acid with solute formula H_3PO_4 and molecular weight 97.99 g/mol. This product is an aqueous liquid with minimum H_3PO_4 content 70%; it is distinct from phosphorous acid, H_3PO_3 .

Specifications

Parameter	Specification
Appearance	Colorless liquid
H_3PO_4	≥70 %
Fluoride, as F	≤0.001 %
Chloride, as Cl	≤0.0005 %
Arsenic	≤0.0001 %
Heavy metals, as Pb	≤0.001 %
Easily oxidized matter, as H_3PO_3	≤0.012 %
Sulfate	≤0.003 %

Supply limits describe the aqueous phosphoric acid grade. H_3PO_3 is the basis for easily oxidized impurity control, not the supplied acid identity.

Typical Properties

Property	Typical Value
Molecular formula	H_3PO_4 (solute)
Molecular weight	97.99 g/mol (solute)

Applications

Metal cleaning and phosphating: Acid component for compatible rust-removal and phosphating systems. Determine treatment concentration, temperature and exposure time by substrate and complete process evaluation.

Phosphate chemical manufacture: Phosphorus-acid feedstock for selected phosphate salts and intermediates. Match impurity limits and reaction conditions to downstream product requirements.

Industrial cleaner formulation: Acid component for selected industrial cleaning formulations. Assess surfactant compatibility, stability, material corrosion and appropriate exposure controls.

Packaging / Storage

Item	Information
Packing	20 L / 200 L plastic drums / lined steel drums / bulk tank
Storage	Store tightly closed in compatible acid-resistant containers in a cool, ventilated area with secondary containment. Segregate alkalis, reactive metals and incompatible materials; protect closures from damage.
Handling	Use controlled liquid transfer with suitable extraction where acid mist can form. Wear acid-resistant gloves, protective clothing and eye/face protection. For dilution, add acid slowly to water with cooling; prevent splashes and provide eyewash and emergency washing facilities.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com