

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 10% ACS Grade

CAS Number: 7664-38-2

Molecular Formula: $\text{H}_3\text{O}_4\text{P}$

Molecular Weight: 97.995 g/mol

Grade: ACS Grade

Purity / Concentration: 10%

Synonyms: Not Available

PRODUCT OVERVIEW

Phosphoric Acid 10% ACS Grade is a high-purity, clear, and colorless liquid solution formulated for precise laboratory and industrial applications. This reagent-grade chemical meets stringent American Chemical Society standards to ensure consistent performance in sensitive analytical environments.

Grade Significance: ACS Grade designation guarantees that the product meets the rigorous purity and quality standards set by the American Chemical Society, ensuring reliability for analytical and research-grade work.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Form	Liquid
Boiling Point	158°C (85%)	Melting / Freezing Point	21°C (pure)
Specific Gravity	1.057	Solubility	Fully miscible with water
Molecular Formula	$\text{H}_3\text{O}_4\text{P}$	Molecular Weight	97.995 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for titration, pH adjustment, and sample preparation in research laboratories.
- Metal Finishing** — Functions as a controlled etching agent for surface preparation and cleaning of metal components.
- Water Treatment** — Applied in small-scale processes for pH control and sequestration of minerals to prevent scale buildup.
- Pharmaceutical Manufacturing** — Serves as an intermediate or pH buffer in the production of specialized chemical compounds requiring high purity.
- General Industrial** — Utilized as a cleaning and descaling agent where a consistent, verified concentration of phosphoric acid is required.

STORAGE & HANDLING

Proper storage is critical because this solution is corrosive and can cause severe skin burns or eye damage. It must be kept in a cool, well-ventilated area away from incompatible materials to prevent hazardous reactions and ensure the integrity of the chemical concentration.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H314: Causes severe skin burns and eye damage

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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