

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 15% 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:** 15%**Synonyms:** Not Available

PRODUCT OVERVIEW

Phosphoric Acid 15% ACS Grade is a high-purity, clear, and colorless liquid formulated for precise laboratory and industrial applications. This concentration offers a stable, reliable acidic solution that meets the rigorous standards required for analytical work.

Grade Significance: ACS Grade signifies that the chemical meets the strict purity standards set by the American Chemical Society, ensuring it is suitable for use in demanding laboratory and analytical procedures.

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	1.087	Solubility	Fully miscible with water
Molecular Formula	$\text{H}_3\text{O}_4\text{P}$	Molecular Weight	97.995 g/mol

APPLICATIONS

- Analytical Chemistry** — Utilized as a high-purity reagent for pH adjustment and chemical buffering in sensitive laboratory experiments.
- Metal Finishing** — Used in controlled concentrations for light surface etching and cleaning of metallic components prior to coating.
- Water Treatment** — Applied as a sequestering agent to control scale and corrosion in specialized water processing systems.
- Pharmaceutical Manufacturing** — Serves as an essential processing aid for maintaining strict pH environments during the synthesis of chemical compounds.
- Educational Research** — Provides a consistent, standardized acid source for academic institutions performing quantitative chemical analysis.

STORAGE & HANDLING

Proper storage is critical because this product is corrosive to many metals and can cause severe skin and eye damage. It must be kept in compatible, corrosion-resistant containers in a cool, well-ventilated area to prevent degradation and accidental exposure.

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 [Danger Skin corrosion/irritation]

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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