

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 5% 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:** 5%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Phosphoric Acid 5% in ACS Grade, formulated for precision and reliability in laboratory and analytical environments. This clear, colorless liquid serves as a stable reagent, providing a consistent concentration of 5% for various chemical processes.

Grade Significance: ACS Grade signifies that this product meets the strict purity standards set by the American Chemical Society, ensuring it is suitable for high-stakes analytical and laboratory applications where quality control is paramount.

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	1.028	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 standardized reagent for pH adjustment and acid-base titrations in controlled laboratory settings.
- Water Treatment** — Used as a mild sequestering agent for metal ions to prevent scaling and corrosion in sensitive water analysis equipment.
- Education** — Serves as a foundational chemical for student experiments and demonstrations requiring a reliable, low-concentration mineral acid.
- Manufacturing** — Acts as an effective surface cleaning and etching agent for delicate components that require precise chemical treatment.

STORAGE & HANDLING

Proper storage is essential because this product is classified as a corrosive substance capable of causing severe skin burns and eye damage. It should be kept in a cool, well-ventilated area in its original, securely sealed container to prevent accidental exposure and maintain chemical integrity.

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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