

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 5% Food Grade

CAS Number: 7664-38-2

Molecular Formula: H_3O_4P

Molecular Weight: 97.995 g/mol

Grade: Food Grade

Purity / Concentration: 5%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Phosphoric Acid 5% in a Food Grade formulation designed for precise industrial and laboratory applications. This clear, colorless liquid provides a controlled concentration of 5%, ensuring consistent performance and chemical reliability for your specific processes.

Grade Significance: Food Grade certification indicates that the chemical meets strict purity standards, ensuring it is free from harmful contaminants and suitable for applications where safety and quality are 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	H_3O_4P	Molecular Weight	97.995 g/mol

APPLICATIONS

- Food and Beverage** — Utilized as an acidulant to regulate pH levels and provide a tart flavor profile in various food products and carbonated beverages.
- Laboratory Research** — Serves as a critical reagent for pH adjustment and chemical synthesis in controlled analytical environments.
- Water Treatment** — Applied to control corrosion and prevent mineral scale buildup in municipal and industrial water distribution systems.
- Metal Finishing** — Functions as a mild cleaning and etching agent to prepare metal surfaces for coating or plating processes.
- Dairy Processing** — Used in clean-in-place (CIP) sanitation protocols to remove mineral deposits and ensure hygienic equipment standards.

STORAGE & HANDLING

Proper storage is essential to maintain the integrity of the phosphoric acid and prevent accidental exposure. Because this product is classified as causing severe skin burns and eye damage, it must be stored in a cool, well-ventilated area with secondary containment to mitigate risks associated with leaks or spills.

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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