

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 5% Food Grade**CAS Number:** 7664-38-2**Molecular Formula:** $\text{H}_3\text{O}_4\text{P}$ **Molecular Weight:** 97.995 g/mol**Grade:** Food Grade**Purity / Concentration:** 5%**Synonyms:** Not Available

PRODUCT OVERVIEW

Phosphoric Acid 5% Food Grade is a high-purity, clear, and colorless liquid solution designed for precise applications where quality standards are paramount. With a specific gravity of 1.028, this solution provides a stable, dilute concentration of phosphoric acid suitable for sensitive laboratory and industrial processes.

Grade Significance: Food Grade designation indicates that the product meets stringent purity standards suitable for human consumption applications, ensuring it is free from harmful contaminants.

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

- Food and Beverage** — Used as a pH adjuster and acidulant in food processing to maintain product consistency and safety.
- Laboratory Research** — Serves as a reliable reagent for analytical chemistry procedures and controlled pH balancing in experimental setups.
- Water Treatment** — Utilized in small-scale systems to manage alkalinity and prevent corrosion within water distribution lines.
- Metal Finishing** — Employed for light-duty surface cleaning and oxide removal where a lower concentration acid is required for delicate substrates.
- Pharmaceutical Manufacturing** — Acts as a chemical intermediate or pH buffer in the production of specialized pharmaceutical formulations.

STORAGE & HANDLING

Proper storage is essential because this product is classified as hazardous and can cause severe skin burns and eye damage. Containers must be kept tightly sealed in a cool, well-ventilated area to prevent degradation and to ensure the safety of personnel handling the material.

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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