

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 10% 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:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers 10% Food Grade Phosphoric Acid, a clear, colorless liquid solution designed for precise industrial and laboratory applications. This concentration provides a controlled acidic environment while maintaining the high purity standards associated with food-grade chemicals.

Grade Significance: Food Grade designation ensures that the product meets stringent purity standards and has been manufactured under conditions that minimize the risk of harmful contaminants, making it safe for use in sensitive applications.

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

- Food and Beverage** — Used as a pH regulator and acidulant to provide a tart flavor profile in various soft drinks and processed food products.
- Water Treatment** — Functions as a sequestering agent to prevent pipe corrosion and control mineral scaling in municipal and industrial water systems.
- Dairy Processing** — Utilized in Clean-in-Place (CIP) procedures to effectively remove mineral deposits and protein buildup from stainless steel equipment.
- Metal Finishing** — Acts as an essential component in surface cleaning and metal etching processes to prepare parts for further treatment or coating.
- Laboratory Research** — Serves as a reliable reagent for pH adjustment and chemical synthesis in controlled analytical environments.

STORAGE & HANDLING

Proper storage is critical because this product is classified as a corrosive material capable of causing severe skin burns and eye damage. It must be kept in a cool, well-ventilated area in its original, securely closed container to prevent accidental exposure and maintain product 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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