

PRODUCT IDENTIFICATION

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

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Phosphoric Acid 15% in a Food Grade concentration, appearing as a clear, colorless liquid. This versatile solution is meticulously balanced to ensure consistency for laboratory and industrial applications requiring precise acidic control.

Grade Significance: Food Grade designation ensures that the chemical meets strict purity standards, confirming it is manufactured and handled to be safe for applications involving food contact or sensitive laboratory processes.

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

- Food and Beverage** — Utilized as a food-grade acidulant to adjust pH levels and provide a tart flavor profile in various consumable products.
- Water Treatment** — Functions as a sequestering agent to control mineral scale formation and prevent pipe corrosion in municipal or industrial water systems.
- Dairy Processing** — Used in clean-in-place (CIP) sanitation protocols to effectively remove mineral deposits and milkstone from processing equipment.
- Laboratory Research** — Serves as a standard acidic reagent for chemical synthesis, titration, and pH buffering in controlled experimental environments.
- Metal Finishing** — Employed for surface cleaning and etching processes to prepare metal substrates for coating or plating applications.

STORAGE & HANDLING

Proper storage is critical because Phosphoric Acid is classified as a corrosive substance capable of causing severe skin burns and eye damage. It must be stored in a cool, well-ventilated area within compatible containers to prevent structural degradation of storage vessels and minimize hazardous exposure risks.

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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