

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 provides high-quality 10% Food Grade Phosphoric Acid, a clear and colorless liquid essential for various industrial and laboratory applications. With a specific gravity of 1.057, this solution offers precise concentration levels to ensure consistency in your professional processes.

Grade Significance: Food Grade designation indicates that the product meets stringent purity and safety standards suitable for use in applications where contact with consumable products may occur.

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 adjuster and acidulant to control acidity and enhance flavor profiles in various food products.
- Laboratory Research** — Serves as a reliable reagent for chemical synthesis and analytical testing where a controlled acidic environment is required.
- Water Treatment** — Utilized for pH balancing in water systems to prevent pipe corrosion and scale buildup.
- Metal Finishing** — Acts as an effective cleaning and etching agent for metal surfaces to prepare them for coating or plating.
- Sanitation** — Employed in industrial cleaning formulations to remove mineral deposits and sanitize equipment surfaces.

STORAGE & HANDLING

Proper storage is critical because this product is classified as corrosive, posing risks of severe skin burns and eye damage upon contact. It must be stored in compatible, corrosion-resistant containers to prevent structural damage to storage facilities and ensure the safety of personnel.

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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