

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 20% 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:** 20%**Synonyms:** Not Available

PRODUCT OVERVIEW

Phosphoric Acid 20% Food Grade is a high-purity, clear, and colorless aqueous solution designed for consistent performance in sensitive processing environments. With a specific gravity of 1.117, this versatile reagent is essential for applications requiring precise acidification and chemical stability.

Grade Significance: Food Grade certification ensures the product meets stringent purity standards suitable for human consumption or contact, guaranteeing it is free from harmful levels of heavy metals or industrial 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	1.117	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 food-grade acidulant to control pH levels and enhance flavor profiles in various beverage formulations.
- Water Treatment** — Serves as an effective sequestering agent to prevent mineral scale buildup and control corrosion in distribution systems.
- Laboratory Research** — Acts as a reliable reagent for pH adjustment and chemical synthesis where high-purity standards are strictly required.
- Dairy Processing** — Utilized in specialized cleaning protocols to remove mineral deposits and ensure sanitized equipment surfaces.

STORAGE & HANDLING

Proper storage is critical because Phosphoric Acid 20% is corrosive to many metals and can cause severe skin burns or eye damage. It must be stored in compatible containers, such as high-density polyethylene, to prevent container degradation and potential leaks that pose significant safety 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.

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

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