

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

Alliance Chemical offers high-quality Phosphoric Acid 20% Food Grade, a clear and colorless liquid solution designed for precise industrial and laboratory applications. With a specific gravity of 1.117, this concentration provides a reliable, controlled acidity level suitable for sensitive chemical processes.

Grade Significance: Food Grade designation indicates that the product meets stringent purity standards suitable for use in applications involving food processing, ensuring safety and consistency for the end user.

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 pH regulator and acidulant to control acidity levels in various food products and carbonated beverages.
- Water Treatment** — Functions as a sequestering agent to prevent mineral scale buildup and corrosion in water distribution systems.
- Laboratory Research** — Serves as a critical reagent for analytical testing and pH adjustment in experimental chemical setups.
- Metal Finishing** — Utilized in surface treatment processes to clean metal parts and prepare surfaces for coating or painting applications.
- Dairy Processing** — Acts as an effective cleaning and sanitizing agent for equipment used in the production of dairy goods.

STORAGE & HANDLING

Proper storage is essential because this product is classified as corrosive to metals and can cause severe skin burns or eye damage. It must be kept in compatible, corrosion-resistant containers in a well-ventilated area to prevent accidental reactions and ensure long-term stability.

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:

- H290: May be corrosive to metals
- 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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