

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 20% Food Grade

CAS Number: 7664-38-2

Molecular Formula: H_3O_4P

Molecular Weight: 97.995 g/mol

Grade: Food Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality 20% Food Grade Phosphoric Acid, a clear and colorless liquid essential for precise chemical processing. This aqueous solution is formulated to meet rigorous standards, ensuring consistent performance for laboratory and industrial applications requiring a controlled acidic environment.

Grade Significance: Food Grade certification guarantees that the product meets strict purity standards, ensuring it is free from harmful contaminants and safe for use in sensitive applications where human consumption or contact 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	1.117	Solubility	Fully miscible with water
Molecular Formula	H_3O_4P	Molecular Weight	97.995 g/mol

APPLICATIONS

- Food and Beverage** — Used as a food-grade acidulant to control pH levels and provide a tart flavor profile in various beverages and food products.
- Water Treatment** — Functions as a sequestering agent to prevent mineral scale buildup and corrosion in municipal and industrial water distribution systems.
- Laboratory Research** — Serves as a reliable reagent for pH adjustment and chemical synthesis where high-purity acidic conditions are required.
- Metal Processing** — Utilized in metal cleaning and surface preparation to remove rust and prepare surfaces for protective coatings or plating.
- Agriculture** — Applied as a component in nutrient formulations to help maintain optimal soil pH levels for crop health.

STORAGE & HANDLING

Proper storage is critical because Phosphoric Acid is corrosive and can cause severe skin burns and eye damage upon contact. It must be kept in a cool, well-ventilated area in its original, securely sealed container to prevent accidental exposure and container degradation.

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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