

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 20% ACS Grade

CAS Number: 7664-38-2

Molecular Formula: H₃O₄P

Molecular Weight: 97.995 g/mol

Grade: ACS Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Phosphoric Acid 20% in ACS Grade, a clear and colorless liquid essential for precise analytical and industrial processes. This reagent-grade solution provides consistent performance and reliability for laboratory applications requiring strict chemical standards.

Grade Significance: ACS Grade signifies that the product meets the stringent purity standards set by the American Chemical Society, ensuring it is suitable for use in demanding laboratory and analytical research.

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 ₃ O ₄ P	Molecular Weight	97.995 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for precise titration and pH adjustment in laboratory testing environments.
- Metal Finishing** — Utilized in surface treatment processes to clean and passivate metal surfaces before coating or painting.
- Water Treatment** — Acts as a sequestering agent to control mineral deposits and prevent corrosion in industrial water systems.
- Pharmaceutical Manufacturing** — Serves as a pH buffer and intermediate in the synthesis of various pharmaceutical compounds.
- Food Processing** — Employed as an acidulant and cleaning agent for equipment sanitation in food and beverage production facilities.

STORAGE & HANDLING

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

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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