

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 20% ACS Grade**CAS Number:** 7664-38-2**Molecular Formula:** $\text{H}_3\text{O}_4\text{P}$ **Molecular Weight:** 97.995 g/mol**Grade:** ACS Grade**Purity / Concentration:** 20%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-purity Phosphoric Acid 20% in an ACS Grade, ensuring consistent quality for sensitive analytical processes. This clear, colorless liquid is formulated for precision laboratory and industrial applications where reliable concentration levels are essential.

Grade Significance: ACS Grade indicates that the product meets the stringent purity specifications established by the American Chemical Society, ensuring it is suitable for critical laboratory and analytical work.

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

- Analytical Chemistry** — Utilized as a high-purity reagent for laboratory testing and quantitative analysis where precise chemical concentrations are required.
- Metal Finishing** — Acts as a controlled cleaning and etching agent to prepare metal surfaces for coating or plating processes.
- Water Treatment** — Used in controlled environments to adjust pH levels and prevent mineral buildup in specialized piping systems.
- Pharmaceutical Manufacturing** — Employed as a pH buffering agent or intermediate in the synthesis of pharmaceutical compounds requiring strict purity standards.
- Food Processing** — Serves as a high-grade acidulant and flavoring agent in strictly regulated food and beverage production lines.

STORAGE & HANDLING

Due to its corrosive nature, this product must be stored in approved, corrosion-resistant containers to prevent structural damage or leakage. Proper ventilation and secondary containment are essential to mitigate the risk of severe skin burns and eye damage associated with H314 hazards.

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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