

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-quality Phosphoric Acid 20% in an ACS grade, ensuring a reliable, clear, and colorless solution for precise laboratory and industrial applications. With a specific gravity of 1.117, this product provides consistent concentration levels for your critical chemical processes.

Grade Significance: ACS Grade indicates that the chemical meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for demanding analytical and laboratory 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

- Laboratory Research** — Utilized as a high-purity reagent for analytical testing and pH adjustment in controlled experimental environments.
- Metal Treatment** — Functions as an effective cleaning and etching agent for metal surfaces to remove oxidation and prepare components for finishing.
- Water Treatment** — Used for sequestering minerals and controlling scale buildup in industrial water systems to maintain infrastructure integrity.
- Specialty Manufacturing** — Serves as a vital chemical intermediate in the synthesis of various phosphates and specialty chemical compounds.
- Electronics Cleaning** — Employed in delicate cleaning processes where high-grade purity is required to prevent contamination of sensitive electronic parts.

STORAGE & HANDLING

Proper storage is essential because this product is classified as corrosive, posing significant risks for skin burns and eye damage. It must be kept in compatible, corrosion-resistant containers to prevent structural damage to storage areas and ensure the safety of your facility.

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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