

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 20% Technical Grade

CAS Number: 7664-38-2

Molecular Formula: H_3O_4P

Molecular Weight: 97.995 g/mol

Grade: Technical Grade

Purity / Concentration: 20%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers Phosphoric Acid 20% Technical Grade, a clear, colorless liquid essential for various industrial and laboratory applications. With a specific gravity of 1.117, this aqueous solution provides a reliable concentration for standardized chemical processes.

Grade Significance: Technical Grade signifies that this product is formulated for industrial and laboratory utility where functional performance is required, though it is not intended for food, drug, or medicinal use.

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

- Metal Finishing** — Used as a key component in metal cleaning and rust removal processes to prepare surfaces for painting or coating.
- Water Treatment** — Serves as a pH adjuster and sequestering agent to manage mineral scaling in industrial water systems.
- Laboratory Research** — Utilized as a common acidifying agent for various chemical synthesis and analytical testing procedures.
- Textile Manufacturing** — Applied in the dyeing and finishing stages to help regulate acidity levels and improve color consistency.

STORAGE & HANDLING

Due to its corrosive nature and classification as a skin and eye hazard, this acid must be stored in a cool, well-ventilated area in its original, compatible container. Proper containment prevents hazardous spills and ensures the chemical remains stable for safe handling in industrial environments.

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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