

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 5% Technical Grade

CAS Number: 7664-38-2

Molecular Formula: $\text{H}_3\text{O}_4\text{P}$

Molecular Weight: 97.995 g/mol

Grade: Technical Grade

Purity / Concentration: 5%

Synonyms: Not Available

PRODUCT OVERVIEW

Phosphoric Acid 5% Technical Grade is a clear, colorless liquid solution formulated for consistent industrial and laboratory applications. With a specific gravity of 1.028, this standardized concentration provides a reliable, dilute source of acid for various chemical processes.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial utility where high-purity requirements are less stringent than those for food or pharmaceutical applications, offering an economical solution for broad chemical 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	1.028	Solubility	Fully miscible with water
Molecular Formula	$\text{H}_3\text{O}_4\text{P}$	Molecular Weight	97.995 g/mol

APPLICATIONS

- Metal Finishing** — Used as a mild cleaning agent for metal surfaces to remove oxidation and prepare parts for protective coatings.
- Water Treatment** — Functions as a pH adjuster to maintain optimal water chemistry in industrial cooling systems and process loops.
- Laboratory Research** — Serves as a convenient, pre-diluted reagent for titration experiments and general pH control in bench-scale setups.
- Industrial Cleaning** — Acts as an active ingredient in specialized cleaning formulations designed to dissolve mineral deposits and scale.

STORAGE & HANDLING

Proper storage is critical because this product is classified as a corrosive material that causes severe skin burns and eye damage. Containers must be kept tightly closed in a cool, well-ventilated area to prevent accidental exposure and maintain the integrity of the chemical solution.

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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