

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 designed for versatile industrial and laboratory applications. This concentration offers a stable, controlled acidity level for processes requiring precise chemical management.

Grade Significance: Technical Grade signifies that this product is manufactured for industrial use rather than food or pharmaceutical consumption, focusing on performance efficiency in manufacturing and laboratory settings.

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** — Utilized as a mild etching agent or cleaner to prepare metal surfaces for coating or painting processes.
- Water Treatment** — Used in controlled environments to adjust pH levels and manage alkalinity in specific water treatment systems.
- Laboratory Research** — Serves as a reliable reagent for general laboratory experiments and chemical synthesis requiring a diluted acid source.
- Manufacturing** — Functions as a chemical intermediate in various industrial formulations where a lower concentration of phosphoric acid is required.
- Cleaning and Sanitation** — Applied in specialized industrial cleaning solutions to remove mineral deposits and scale from equipment surfaces.

STORAGE & HANDLING

Due to its classification as a corrosive substance, this product must be stored in a cool, well-ventilated area in original, compatible containers to prevent degradation. Proper containment is essential to mitigate the risk of severe skin burns and eye damage associated with accidental exposure.

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

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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