

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 10% 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:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Phosphoric Acid 10% Technical Grade is a reliable, clear liquid solution formulated for consistent performance in industrial and laboratory settings. With a concentration of 10%, this product provides a controlled acidic strength suitable for various pH adjustment and cleaning applications.

Grade Significance: Technical Grade indicates the product is manufactured for general industrial use where high utility and cost-effectiveness are prioritized over the strict purity standards required for food or pharmaceutical applications.

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	1.057	Solubility	Fully miscible with water
Molecular Formula	$\text{H}_3\text{O}_4\text{P}$	Molecular Weight	97.995 g/mol

APPLICATIONS

- Water Treatment** — Utilized as a pH adjuster to maintain optimal water chemistry in industrial cooling towers and effluent systems.
- Metal Finishing** — Used in surface preparation processes to remove rust and prepare metal substrates for coatings or plating.
- Laboratory Research** — Serves as a standard acidic reagent for chemical synthesis and analytical testing procedures.
- Industrial Cleaning** — Acts as an effective descaling agent for removing mineral deposits and hard water scale from industrial equipment.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to metals and can cause severe skin and eye damage. It must be kept in compatible, corrosion-resistant containers in a well-ventilated area to prevent hazardous reactions and ensure worker safety.

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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