

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 15% 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: 15%

Synonyms: Not Available

PRODUCT OVERVIEW

Phosphoric Acid 15% Technical Grade is a clear, colorless liquid solution designed for versatile industrial and laboratory applications. This concentration provides a reliable, controlled acidity level suitable for various chemical processes and maintenance tasks.

Grade Significance: Technical Grade ensures the product meets the necessary chemical standards for general industrial utility while remaining cost-effective for high-volume applications. It provides the required performance reliability without the unnecessary expenses associated with higher pharmaceutical or food-grade purity levels.

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	1.087	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 etching agent to prepare metal surfaces for coatings or to remove light oxidation from parts.
- Water Treatment** — Applied for pH adjustment in industrial water systems to maintain optimal chemical balance and prevent equipment corrosion.
- Laboratory Research** — Serves as a standard acidic reagent for benchtop experiments, titration procedures, and general pH control in analytical settings.
- Industrial Cleaning** — Utilized in formulated cleaning compounds to effectively break down mineral deposits and scale buildup on industrial machinery.
- Textile Manufacturing** — Acts as a buffering agent during the dyeing and finishing processes to ensure consistent color adherence to fabrics.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive and can cause severe skin burns and eye damage upon contact. It should be kept in a cool, well-ventilated area within its original, labeled container to prevent accidental exposure and potential chemical degradation.

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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