

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 formulated for consistent performance in various industrial and laboratory settings. With a specific gravity of 1.087, this product provides a reliable concentration for applications requiring controlled acidity and chemical stability.

Grade Significance: Technical Grade indicates that this product is manufactured for industrial use where cost-effective performance is required, though it is not intended for food, drug, or medical 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	1.087	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 cleaning and etching agent to remove rust and prepare metal surfaces for coating or painting.
- Water Treatment** — Functions as a pH adjuster and corrosion inhibitor to maintain water quality in industrial cooling systems.
- Laboratory Research** — Serves as a standard reagent for pH adjustment and chemical synthesis experiments in controlled environments.
- Textile Manufacturing** — Employed in the dyeing process to ensure proper pH levels for consistent color application and fabric treatment.
- Industrial Cleaning** — Acts as a primary ingredient in heavy-duty acidic cleaners designed to remove mineral deposits and scale.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to many metals and can cause severe skin and eye damage. Containers must be kept in a cool, well-ventilated area away from incompatible materials to maintain integrity and prevent hazardous reactions.

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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