

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:

- H290: May be corrosive to metals
- 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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.