

PRODUCT IDENTIFICATION



Product Name: Phosphoric Acid 10% Technical Grade

CAS Number: 7664-38-2

Molecular Formula: H_3O_4P

Molecular Weight: 97.995 g/mol

Grade: Technical Grade

Purity / Concentration: 10%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers 10% Technical Grade Phosphoric Acid, a clear and colorless liquid formulated for versatile industrial and laboratory utility. This solution provides a reliable concentration for applications requiring precise pH adjustment or surface treatment processes.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial use where high functional reliability is required, though it is not intended 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	H_3O_4P	Molecular Weight	97.995 g/mol

APPLICATIONS

- Metal Finishing** — Used as a pickling agent to remove rust and scale from metal surfaces prior to coating or painting.
- Water Treatment** — Functions as a pH adjuster to maintain optimal chemical balance in industrial water systems and cooling towers.
- Laboratory Research** — Serves as a standard acidic reagent for various analytical experiments and routine chemical testing.
- Cleaning and Sanitation** — Utilized as a component in industrial-strength descaling agents to remove mineral deposits from equipment.
- Textile Manufacturing** — Applied in various dyeing processes to help stabilize pH levels and ensure uniform color distribution.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive and can cause severe skin burns and eye damage if handled improperly. Containers should be kept in a cool, well-ventilated area, away from incompatible materials to prevent hazardous reactions and ensure the integrity of the chemical solution.

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.

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.