

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 applications. This concentration provides a balanced acidic solution suitable for various laboratory and general manufacturing processes.

Grade Significance: Technical Grade indicates that this product is manufactured for general industrial utility where high purity is not required, providing a cost-effective solution for non-food or non-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

- Water Treatment** — Used as a pH adjuster to maintain optimal chemical balance in industrial water systems. It helps prevent scale buildup and corrosion in pipelines.
- Metal Finishing** — Acts as a cleaning and etching agent for metal surfaces. It effectively removes rust and prepares substrates for coating or painting.
- Laboratory Research** — Serves as a reliable reagent for general laboratory experiments and chemical synthesis. Its controlled concentration ensures consistent performance in controlled environments.
- Industrial Cleaning** — Utilized in heavy-duty cleaning formulations to dissolve mineral deposits and hard water stains. Its acidic properties make it an effective descaling agent.
- Textile Manufacturing** — Used during the dyeing process to regulate acidity levels in dye baths. This ensures uniform color absorption and high-quality finishes on fabrics.

STORAGE & HANDLING

Proper storage is critical because this product is classified as a hazardous material capable of causing severe skin burns and eye damage. Containers must be kept in a cool, well-ventilated area, away from incompatible substances like bases and metals, to prevent dangerous chemical reactions and ensure structural integrity.

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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