

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 20% 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:** 20%**Synonyms:** Not Available

PRODUCT OVERVIEW

Alliance Chemical offers Phosphoric Acid 20% Technical Grade, a clear and colorless liquid formulated for versatile industrial and laboratory utility. This solution provides a reliable concentration for controlled chemical processes requiring consistent acidity.

Grade Significance: Technical Grade signifies that this product is manufactured for industrial applications where cost-effective performance is prioritized over the stringent purity standards required for food or pharmaceutical use.

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	1.117	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 pickling agent to remove rust and surface oxidation from metal parts before coating.
- Water Treatment** — Functions as a pH adjuster to maintain optimal water chemistry in closed-loop systems and industrial cooling towers.
- Laboratory Research** — Serves as a reagent for general chemical synthesis and pH buffering in controlled experimental settings.
- Industrial Cleaning** — Acts as an effective mineral scale remover for industrial machinery and hard surface maintenance.

STORAGE & HANDLING

Proper storage is critical because this acid is corrosive to metals and can cause severe skin and eye damage. Containers should be kept in a cool, well-ventilated area to prevent pressure buildup and to ensure that the material remains isolated from incompatible substances.

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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