

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

Phosphoric Acid 20% Technical Grade is a clear, colorless aqueous solution widely utilized for its versatility in industrial and laboratory processes. This technical grade formulation offers a reliable concentration for applications requiring consistent chemical reactivity and pH control.

Grade Significance: Technical Grade indicates that this product is manufactured for industrial and commercial utility where high 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	1.117	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 key component in metal cleaning and pickling solutions to remove rust and surface impurities before coating.
- Water Treatment** — Functions as a pH adjuster and corrosion inhibitor to maintain stability within municipal and industrial water systems.
- Laboratory Research** — Serves as a fundamental reagent for various analytical procedures and chemical synthesis applications in controlled settings.
- Industrial Cleaning** — Acts as an effective descaling agent for industrial equipment, helping to dissolve mineral deposits and hard water buildup.
- Textile Processing** — Utilized in the dyeing and finishing stages of fabric production to achieve desired colorfastness and material texture.

STORAGE & HANDLING

Due to its corrosive nature, Phosphoric Acid must be stored in specialized, acid-resistant containers to prevent degradation and leaks. Proper containment is essential to mitigate the risk of severe skin burns and metal corrosion, ensuring both facility safety and product 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:

- 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

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