

PRODUCT IDENTIFICATION

**Product Name:** Phosphoric Acid 10% ACS Grade**CAS Number:** 7664-38-2**Molecular Formula:** $\text{H}_3\text{O}_4\text{P}$ **Molecular Weight:** 97.995 g/mol**Grade:** ACS Grade**Purity / Concentration:** 10%**Synonyms:** Not Available

PRODUCT OVERVIEW

Phosphoric Acid 10% ACS Grade is a high-purity, clear, and colorless liquid solution formulated for precise laboratory and industrial applications. This 10% concentration provides a controlled acidic environment, ensuring reliable performance in analytical procedures where chemical consistency is critical.

Grade Significance: ACS Grade signifies that this product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for demanding analytical and laboratory 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	1.057	Solubility	Fully miscible with water
Molecular Formula	$\text{H}_3\text{O}_4\text{P}$	Molecular Weight	97.995 g/mol

APPLICATIONS

- Analytical Chemistry** — Used as a standard reagent for pH adjustment and chemical analysis in laboratory settings.
- Water Treatment** — Applied in small-scale processes to neutralize alkalinity and prevent mineral scaling in pipes.
- Electronics Manufacturing** — Utilized in the cleaning and etching of semiconductor components where high-grade purity is essential.
- Metal Finishing** — Functions as a surface treatment agent to prepare metal substrates for coating or plating processes.
- Pharmaceutical Research** — Employed as a buffering agent in the development and synthesis of specialized chemical compounds.

STORAGE & HANDLING

Due to its corrosive nature, this product must be stored in specialized, compatible containers to prevent structural damage to storage facilities. Proper containment is essential to mitigate the risk of severe skin burns and eye damage, ensuring the safety of personnel handling the material.

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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