

### PRODUCT IDENTIFICATION



**Product Name:** Phosphoric Acid 10% ACS Grade

**CAS Number:** 7664-38-2

**Molecular Formula:** H<sub>3</sub>O<sub>4</sub>P

**Molecular Weight:** 97.995 g/mol

**Grade:** ACS Grade

**Purity / Concentration:** 10%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Alliance Chemical offers high-quality Phosphoric Acid 10% in ACS Grade, a clear and colorless liquid essential for precise chemical processing. This concentration provides a reliable, controlled acidity level suitable for laboratory and specialized industrial applications.

**Grade Significance:** ACS Grade indicates that the product meets the stringent purity standards set by the American Chemical Society, ensuring it is suitable for critical laboratory and analytical work where high consistency is required.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

*Certificate of Analysis data not available for this product.*

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Form</b>	Liquid
<b>Boiling Point</b>	158°C (85%)	<b>Melting / Freezing Point</b>	21°C (pure)
<b>Specific Gravity</b>	1.057	<b>Solubility</b>	Fully miscible with water
<b>Molecular Formula</b>	H <sub>3</sub> O <sub>4</sub> P	<b>Molecular Weight</b>	97.995 g/mol

### APPLICATIONS

- Laboratory Research** — Utilized as a high-purity reagent for analytical testing and precise pH adjustment in experimental procedures.
- Metal Finishing** — Acts as a cleaning and etching agent to prepare metal surfaces for coatings or to remove oxidation.
- Pharmaceutical Manufacturing** — Serves as a critical pH buffer and intermediate in the synthesis of various pharmaceutical compounds.
- Water Treatment** — Employed to control corrosion in water systems and to sequester minerals that contribute to scale buildup.
- Chemical Synthesis** — Functions as a catalyst or reactant in the production of specialty chemicals and organic derivatives.

### STORAGE & HANDLING

Due to its classification as a corrosive substance capable of causing severe skin burns and eye damage, this acid must be stored in a cool, well-ventilated area in compatible, tightly sealed containers. Proper storage prevents accidental spills or container degradation, ensuring the safety of personnel and the integrity of the chemical.

## 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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