

### PRODUCT IDENTIFICATION



**Product Name:** Phosphoric Acid 15% ACS Grade

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

**Molecular Formula:**  $H_3O_4P$

**Molecular Weight:** 97.995 g/mol

**Grade:** ACS Grade

**Purity / Concentration:** 15%

**Synonyms:** Not Available

### PRODUCT OVERVIEW

Alliance Chemical offers high-purity Phosphoric Acid 15% in ACS Grade, a clear and colorless liquid formulated for precise laboratory and industrial applications. This concentration is carefully standardized to ensure reliability in sensitive analytical processes.

**Grade Significance:** ACS Grade indicates that this chemical meets the high-purity standards established by the American Chemical Society, ensuring it is suitable for laboratory use and critical analytical work.

### 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>  | 1.087                   | <b>Solubility</b>               | Fully miscible with water |
| <b>Molecular Formula</b> | $H_3O_4P$               | <b>Molecular Weight</b>         | 97.995 g/mol              |

### APPLICATIONS

- Analytical Chemistry** — Used as a high-purity reagent for precise pH adjustment and titration experiments in laboratory settings.
- Metal Finishing** — Applied for surface treatment and cleaning processes where a controlled, dilute acid concentration is required to remove oxidation.
- Pharmaceutical Manufacturing** — Utilized as a chemical intermediate in the synthesis of specialized compounds that demand high-purity, standardized ingredients.
- Food Processing Research** — Serves as a pH control agent in food science testing environments to ensure consistent product stability.

### STORAGE & HANDLING

Proper storage is critical because this product is classified as a corrosive material capable of causing severe skin burns and eye damage. Containers must be kept tightly sealed in a cool, well-ventilated area to prevent degradation and to mitigate the risk of accidental exposure or hazardous spills.

## 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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