

## Product Specification Sheet

**Product Name:** Phosphoric Acid

**Country of Origin:** India

### Product Exclusive Features:

- It is Colourless & odourless liquid
- It is Soluble in water alcohol

### Product Specification:

Sr No.	Test	Specifications
1	Description	Colourless & odourless liquid
2	H3PO4 concentration	85 % min
3	Iron as Fe	10.00 ppm max
4	Sulphate as SO4	300.00 ppm max
5	Chloride as Cl-	15.00 ppm max
6	Fluoride as F	100.00 ppm max
7	Ca and Mg	50.00 ppm max
8	Heavy Metals as Pb (Lead)	10.00 ppm max
9	Arsenic as As	1.00 ppm max
10	Melting point	42.35degree Celsius
11	Boiling point	158 degree Celsius
12	Colour	Water white

### Packing:

- 50 kgs HM-HDPE Carbuoys
- CS Rubber lined Road Tankers

## Applications of Phosphoric Acid

- **Food additive**

Food-grade phosphoric acid (additive E338) is used to acidify foods and beverages such as various colas. It provides a tangy or sour taste. Various salts of phosphoric acid, such as monocalcium phosphate, are used as leavening agents.

- **Rust removal**

Phosphoric acid may be used to remove rust by direct application to rusted iron, steel tools, or other surfaces. Liquid phosphoric acid may be used for dipping, but phosphoric acid for rust removal is more often formulated as a gel. As a thick gel, it may be applied to sloping, vertical, or even overhead surfaces. Different phosphoric acid gel formulations are sold as "rust removers" or "rust killers".

- **Medicine**

Phosphoric acid is used in dentistry and orthodontics as an etching solution, to clean and roughen the surfaces of teeth where dental appliances or fillings will be placed. Phosphoric acid is also an ingredient in over-the-counter anti-nausea medications that also contain high levels of sugar (glucose and fructose). This acid is also used in many teeth whiteners to eliminate plaque that may be on the teeth before application

- **Other applications**

- ✓ As a solution for anodizing
- ✓ As an external standard for phosphorus-31 Nuclear magnetic resonance (NMR).
- ✓ As a buffer agent in biology and chemistry; For example, a buffer for high-performance liquid chromatography.
- ✓ As a chemical oxidizing agent for activated carbon production, as used in the Wentworth Process.
- ✓ As the electrolyte in phosphoric acid fuel cells.
- ✓ With distilled water (2–3 drops per gallon) as an electrolyte in oxyhydrogen generators.
- ✓ As a catalyst in the hydration of alkenes to produce alcohols, predominantly ethanol.
- ✓ As an electrolyte in copper electropolishing for burr removal and circuit board planarization.
- ✓ As a flux by hobbyists (such as model railroaders) as an aid to soldering.
- ✓ As Tea- Leaf processing
- ✓ In Soaps and Detergents
- ✓ Activated Carbon