

## Technical Data Sheet

### Phosphoric Acid

**Quick Details:**

**Synonyms:** Orthophosphoric Acid, Monophosphoric acid      **Chemical formula:** H<sub>3</sub>PO<sub>4</sub>

**Cas No.:** 7664-38-2

**Grade:** Food/Tech grade

**UN No.:** 1805

**Hazard categories:** 8.1 (Corrosives presenting acidic properties)

**Properties:**

- Colorless, transparent and syrupy liquid;
- Odorless and tastes very sour;
- Freezing point: 21°C
- Boiling point: 158°C;
- Easily soluble in water and resolved in ethanol;
- May irritate human skin to cause phlogosis and destroy the issue of human body;
- Has got hygroscopic.

**Specification:** GB3149-2004 / GB2091-2008

| Item   | Index      |            |
|--|------------|------------|
|  | Food grade | Tech grade |
| 色度/黑曾 Color/Hazen ≤  | 20         | 20         |
| 磷酸 Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> ) content, % ≥              | 85.0       | 85.0       |
| 砷 Arsenic (As) content, % ≤  | 0.00005    | 0.0001     |
| 氟 Fluorine (F) content, % ≤  | 0.001      | ---        |
| 重金属 Heavy metal (Pb) content, % ≤  | 0.0005     | 0.001      |
| 易氧化物 Easily oxidized substances (H <sub>3</sub> PO <sub>3</sub> ) content, % ≤ | 0.012      | ---        |
| 铁 Iron (Fe) content, % ≤   | Nil        | 0.002      |
| 氯化物 (CL) % ≤   | Nil        | 0.0005     |
| 硫酸盐 (SO <sub>4</sub> ), % ≤  | Nil        | 0.005      |

**Application:**

|                 |  |
|-----------------|--|
| <b>Industry</b> | 1. Phosphoric Acid used in removing dust from the metal surfaces.<br>2. Used as rust converter by bringing it in direct contact with a rusted iron, or steel tools and other surfaces that are rusted.<br>3. It is helpful in cleaning the mineral deposits, cement nous smears and hard water stains. |
| <b>Food</b>     | Used to acidify the foods and beverages such as colas.   |



CHEMATE

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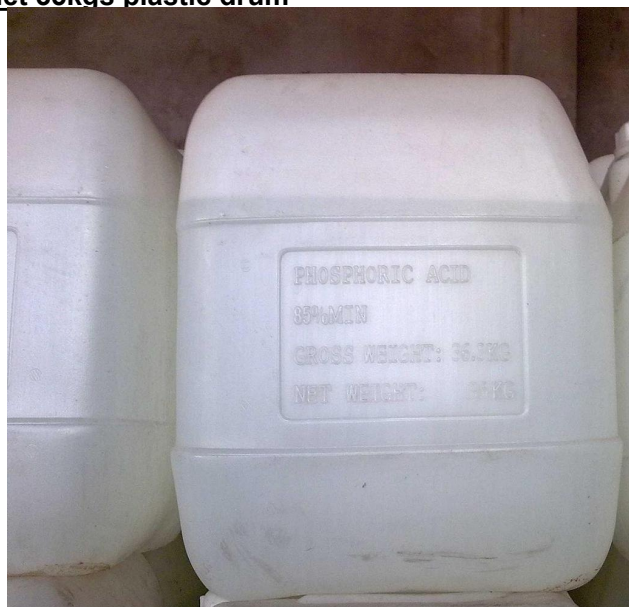
|                   |  |
|-------------------|--|
| <b>Medicine</b>   | Phosphoric Acid is an important ingredient in over the counter medications to combat nausea.   |
| <b>Dentistry</b>  | Phosphoric Acid is mixed with zinc powder and forms zinc phosphate, and it is useful in temporary dental cement. In orthodontics, zinc is used as an etching solution to help clean and roughen the surface of teeth.  |
| <b>Fertilizer</b> | Used as reaction fertilizer in the soil around a granule acidification is generated that improves the utilization of phosphorus applied and available in the rhizosphere. Due to its nitrogen content (present as ammonia), it is good for crops that require these nutrients in its initial phase |

### Package:

Packaged in IMO approved plastic drums net 35kgs, 330kgs/ plastic drums or net1650kgs/ IBC tank.

|   | <b>N.W</b>  | <b>G.W</b>    | <b>Qty of Durms/20'fcl</b> | <b>Loading</b>        |
|---|-------------|---------------|----------------------------|-----------------------|
| 1 | 35kgs/drum  | 36.5kgs/drum  | 760drums                   | Net 26.6MT per 20'fcl |
| 2 | 330kgs/drum | 340.5kgs/drum | 80drums                    | Net 26.4MT per 20'fcl |
| 3 | 1650kgs/IBC | 1710kgs/IBC   | 16drums                    | Net 26.4MT per 20'fcl |

### Net 35kgs plastic drum



### Net 330kgs plastic drum



### Net1650kgs IBC tank





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### **Storage:**

- In sealed containers at room temperature and above freezing (crystallization) point to maintain product performance
- Storage area should be well ventilated
- Preferred storage containers includes stainless steel or certain reinforced plastics
- Away from alkalis, sulfides, cyanides and metal powder.