AQUABOND
Chemistry for Tomorrow

Summary Technical Data Sheet

Phosphoric Acid 75%

Product Name: Phosphoric Acid 75%
CAS No.: 7664-38-2
Formula: H_3PO_4
Molecular weight: 98.00 g/mol
E number #: E338
Grade: Food

Typical Properties

Appearance: colorless viscous liquid
Odor: odorless
Melting point: 21°C
Boiling point: 158 °C
Decomposition temperature: 300 °C
Specific gravity: 1.6850 g/cm^3
Solubility: miscible in water

Product Specifications

Properties	Specifications
Content (as H_3PO_4)	≥ 75 %
Content (as P_2O_5)	≥54.33%
Heavy metals (as Pb)	≤ 5 ppm
Arsenic (as As)	≤ 0.5 ppm
Fluoride (as F)	≤ 10 ppm
Chloride (as Cl)	≤ 5 ppm
Oxide (as H_3PO_3)	≤ 120 ppm

Phosphoric acid is used as a food additive to acidify various foods, such as meat, cheese, jam, and non-alcoholic beverages (Coke, soft drinks, etc.). It gives a sour and tangy taste. Various salts of phosphoric acid, such as monocalcium phosphate, are used as leavening agents in bread dough and cake flour. It is also used as a nutrients source for yeast in wine brewery. Phosphoric acid is used as a sanitizing agent in the dairy, food, and brewing industries.

Phosphoric acid is included as a pH adjuster in some cosmetics and skin-care products. Phosphoric acid is also used in dentistry and orthodontics as an etching solution, to clean and roughen the surfaces of teeth.

Phosphoric acid has applications in removing rust by direct application to rusted iron, steel tools, or other surfaces.

Storage and Handling: Store in a cool, dry and well-ventilated place, and in a tightly closed container. Keep away from incompatible substances. Avoid high temperatures and direct sunlight.

Packaging: 32 kg, 320 kg

Transport Regulations: UN #: 1805; Hazard Class: 8; Packing Group: III.

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.

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