

PHOSPHORIC ACID (FOOD GRADE)



CAS Number: 7664-38-2

Other Names: Orthophosphoric acid; o-Phosphoric acid

Formula: H_3PO_4 or H_3O_4P

PRODUCT INTRODUCTION

Phosphoric Acid is a colorless, odorless phosphorus-containing inorganic acid. It has a role as a solvent, a human metabolite, an algal metabolite and a fertilizer. It is miscible with water, ethanol and mixture of ether: alcohol (3:1).

PHYSICAL AND CHEMICAL PROPERTIES

H_3PO_4	85.0 %
P_2O_5	61.6 %
Specific Gravity at 25°C	1.685 g/mL
Color	< 10.0 (APHA)
Arsenic (As)	< 0.8 (mg/Kg)
Fluoride (F)	10.0 (mg/Kg)
Iron (Fe)	20 (mg/Kg)
Heavy Metal (as Pb)	< 10(mg/Kg)
Lead (Pb)	< 0.4 (mg/Kg)
Cadmium (Cd)	0.0 (mg/Kg)
Nickel (Ni)	< 0.2 (mg/Kg)
Chromium (Cr)	< 0.6 (mg/Kg)
Mercury (Hg)	< 0.05 (mg/Kg)
Copper (Cu)	< 0.1 (mg/Kg)
Phosphorus (P)	26.9 %
Sulphates (SO_4)	383 (mg/Kg)
Chloride (Cl)	< 20.0 (mg/Kg)
Volatile acids (as Acetic acid)	< 10 (mg/Kg)
Nitrates	< 5 (mg/Kg)
Visual Appearance	Clear, colorless liquid without visible particles.

APPLICATION

- Food-grade phosphoric acid is used to acidify foods and beverages such as jams, providing a tangy or sour taste.
- Soft drinks containing phosphoric acid, which would include Coca-Cola, are sometimes called phosphate sodas or phosphates.

PACKAGING OPTIONS

Drums

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