

PHOSPHORIC ACID (TECHNICAL)



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

Appearance	Transparent Colourless Fluid
Actual Active Ingredient (H_3PO_4)	85.10 %
Chloride (as Cl)	0.0003 %
Sulphate (as SO_4)	0.003 %
Heavy Metal (as Pb)	N.D
Arsenic (as As)	N.D
Iron (as Fe)	0.0003 %
Acetic Acid (CH_3COOH)	1.94 %

APPLICATION

- Phosphoric acid is used mainly in fertilizers.
- It is used as an external standard for phosphorus-31 Nuclear magnetic resonance (NMR)
- It is used as an electrolyte in phosphoric acid fuel cells and as a catalyst in the hydration of alkenes to produce alcohols, predominantly ethanol.
- It finds application as a buffer agent in biology and chemistry; as a solution for anodizing and as a cleaner by construction trades to remove mineral deposits, cementations smears and hard water stains.
- It is also used as a pH adjuster in cosmetics and skin-care products and a dispersing agent in detergents and leather treatment.

- It plays an important role in the preparation of albumin derivatives.
- It is an important starting material used in the preparation of disodium hydrogen phosphate, trisodium phosphate, calcium dihydrogen phosphate and monohydrogen phosphate.
- It is widely used to remove rust in steel tools or surfaces by converting the rusted iron into water soluble phosphate compound.

PACKAGING OPTIONS

Drums

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