

Identification

H₃PO₄
M = 98,00 g/mol
CAS [7664-38-2]
EC number: 231-633-2
Taric code: 2809 20 00

Synonyms

Orthophosphoric acid

Applications

analytical chemistry, laboratory reagent, in fertilizer compositions, solvents (for pharmaceuticals synthesizing), antioxidant (in food industry).

Specifications

assay (acidimetric).....	approx. 50 %	copper (Cu).....	max. 1 ppm
chlorides (Cl).....	max. 0,0005 %	iron (Fe).....	max. 0,001 %
nitrates (NO ₃).....	max. 0,0005 %	lead (Pb).....	max. 1 ppm
silicates (SiO ₂).....	max. 0,025 %	magnesium (Mg).....	max. 0,001 %
sulfates (SO ₄).....	max. 0,006 %	manganese (Mn).....	max. 1 ppm
arsenic (As).....	max. 1 ppm	nickel (Ni).....	max. 1 ppm
antimony (Sb).....	max. 2 ppm	potassium (K).....	max. 5 ppm
cadmium (Cd).....	max. 1 ppm	sodium (Na).....	max. 0,05 %
calcium (Ca).....	max. 0,005 %	zinc (Zn).....	max. 2 ppm
chromium (Cr).....	max. 1 ppm	substances reducing KMnO ₄	passes test
cobalt (Co).....	max. 1 ppm	volatile acids (as CH ₃ COOH).....	max. 0,001 %

Physical data

- Density: 1,33 g/cm³
- Solub. in water: (20 °C): miscible
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.

**Precautionary Statements:**

P260: Do not breathe dust / fume / gas / mist / vapours / spray.

P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see on this label).

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- WGK: 1
- Poison class CH (Swiss): 2

Transport/storage

- ADR: 8 C1 III • UN 1805 • PHOSPHORIC ACID, SOLUTION
- IMDG: 8 III • UN 1805 • PHOSPHORIC ACID, SOLUTION
- IATA/ICAO: 8 III • UN 1805 • PHOSPHORIC ACID, SOLUTION
- PAX: 819
- CAO: 821
- Store between 15°C and 25°C