

Phosphotungstic acid hydrate, for analysis, ExpertQ®

Identification

H₃[P(W₃O₁₀)₄]·xH₂O
M = 2880,17 g/mol
CAS [12501-23-4]
EC number: 215-682-7
Taric code: 2811 19 80

Synonyms

Tungstophosphoric acid hydrate

Applications

analytical chemistry, reagent for organic compounds detection.

Specifications

chlorides (Cl).....	max. 0,005 %	iron (Fe).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,01 %	lead (Pb).....	max. 0,002 %
total nitrogen (as N).....	max. 0,002 %	potassium (K).....	max. 0,02 %
copper (Cu).....	max. 0,001 %	sodium (Na).....	max. 0,02 %
		loss on ignition (750 °C).....	max. 17 %

Physical data

- Appearance: crystals, white or almost white
- Bulk density: ~ 960 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 107 °C
- pH(20 g/l H₂O, 20 °C) ~ 1,3

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.
P310: Immediately call a POISON CENTER or doctor / physician.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 C2 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Phosphotungstic acid hydrate)
- IMDG: 8 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Phosphotungstic acid hydrate)
- IATA/ICAO: 8 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Phosphotungstic acid hydrate)
- PAX: 822
- CAO: 823
- 5°C - 30°C