

**Identification**

P<sub>2</sub>O<sub>5</sub>  
M = 141,96 g/mol  
CAS [1314-56-3]  
EC number: 215-236-1  
Taric code: 2809 10 00

**Synonyms**

Phosphoric anhydride

**Applications**

analytical chemistry, synthesis of organic products, manufacture of dyes, desiccant.

**Specifications**

assay (acidimetric)..... min. 97 %

**Physical data**

- Appearance: powder, white
- Spec. Density: 2,40 g/cm<sup>3</sup>
- Bulk density: ~ 700 kg/m<sup>3</sup>
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: ~ 580 - 585 °C
- Boiling point: 591 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- pH(5 g/l H<sub>2</sub>O, 20 °C) 1
- Hygroscopic

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

H314: Causes severe skin burns and eye damage.  
EUH014: Reacts violently with water.

**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 II • UN 1807 • PHOSPHORUS PENTOXIDE
- IMDG: 8 II • UN 1807 • PHOSPHORUS PENTOXIDE
- IATA/ICAO: 8 II • UN 1807 • PHOSPHORUS PENTOXIDE
- PAX: 815
- CAO: 817