

**Identification**

Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O  
M = 380,12 g/mol  
CAS [10101-89-0]  
EC number: 231-509-8  
Taric code: 2835 23 00

**Synonyms**

Trisodium phosphate, Sodium phosphate tribasic

**Specifications**

|                                |               |                                |               |
|--------------------------------|---------------|--------------------------------|---------------|
| assay (acidimetric).....       | 97 - 102 %    | cadmium (Cd) .....             | max. 0,0001 % |
| insoluble in water.....        | max. 0,01 %   | heavy metals (as Pb).....      | max. 0,001 %  |
| pH (1%, H <sub>2</sub> O)..... | 11,8 - 12,2   | lead (Pb) .....                | max. 0,0001 % |
| fluorides (F).....             | max. 0,001 %  | mercury (Hg) .....             | max. 0,0001 % |
| arsenic (As).....              | max. 0,0001 % | loss on ignition (800 °C)..... | 45 - 55 %     |

**Physical data**

- Spec. Density: 1,62 g/cm<sup>3</sup>
- Bulk density: ~ 620 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 285 g/l
- Melting point: 75 °C
- pH(10 g/l H<sub>2</sub>O, 20 °C) ~ 12

**Safety - GHS**

**Signal Word:** Warning

**Hazard Statements:**

- H315: Causes skin irritation.  
H319: Causes serious eye irritation.

**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P264: Wash thoroughly after handling.  
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).  
P332+P313: If skin irritation occurs: Get medical advice / attention.  
P337+P313: If eye irritation persists: Get medical advice / attention.

**Transport/storage**

- 10°C - 30°C