

**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

**Applications**

analytical chemistry, laboratory reagent, detergent, disinfectant.

**Specifications**

assay (acidimetric).....	98,0 - 102,0 %	sulfates (SO <sub>4</sub> ).....	max. 0,005 %
identity (IR-spectrum).....	passes test	heavy metals (as Pb).....	max. 0,001 %
insoluble in water.....	max. 0,01 %	iron (Fe).....	max. 0,001 %
free alkali (as NaOH).....	max. 2,5 %		
chlorides (Cl).....	max. 0,0005 %		
fluorides (F).....	max. 0,0005 %		

**Physical data**

- Appearance: crystals, colourless or white
- 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.  
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).  
P362: Take off contaminated clothing and wash before reuse.  
P332+P313: If skin irritation occurs: Get medical advice / attention.  
P337+P313: If eye irritation persists: Get medical advice / attention.

**Toxicological data**

- LD 50 (oral, rat): 7400 mg/kg
- WGK: 1
- Poison class CH (Swiss): 5