

**Identification**

Na<sub>2</sub>HPO<sub>4</sub>  
M = 141,96 g/mol  
CAS [7558-79-4]  
EC number: 231-448-7  
Taric code: 2835 22 00

**Synonyms**

Disodium hydrogen phosphate, Sodium phosphate dibasic

**Applications**

analytical chemistry, in buffer solutions, in pharma industry.

**Specifications**

assay USP (acidimetric, referred to dried sample) .....	98,0 - 100,5 %	arsenic (As) (EP).....	max. 2 ppm
assay EP (acidimetric, referred to dried sample) .....	98,0 - 101,0 %	arsenic (As) (USP).....	max. 16 ppm
identification.....	passes test	iron (Fe).....	max. 20 ppm
appearance of solution.....	clear and colourless	reducing substances.....	passes test
insoluble in water.....	max. 0,01 %	loss on drying (105 ° C, 4h) .....	max. 1,0 %
chlorides (Cl) (EP).....	max. 200 ppm	loss on drying (130 °C).....	max. 5,0 %
sulfates (SO <sub>4</sub> ) (EP).....	max. 500 ppm		
chlorides and sulfates (USP).....	max. 0,2 %	Residual solvents are analysed according to guideline CPMP/ICH/283/95.	
sodium dihydrogenphosphate (NaH <sub>2</sub> PO <sub>4</sub> )	max. 2,5 %	Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.	

**Physical data**

- Appearance: floury powder, white
- Spec. Density: 1,53 g/cm<sup>3</sup>
- Bulk density: ~ 880 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 77 g/l
- Melting point: ~ 250 °C (decomposes)
- pH(20 g/l H<sub>2</sub>O, 20 °C) 8,7 - 9,3
- Hygroscopic

**Toxicological data**

- LD 50 (oral, rat): 17000 mg/kg
- WGK: 1
- Poison class CH (Swiss): 5