

**di-Sodium hydrogen phosphate anhydrous, Pharmpur®, Ph Eur, BP,
USP****Identification**

Na₂HPO₄
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 ₄) (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 ₂ PO ₄)	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/cm³
- Bulk density: ~ 880 kg/m³
- Solub. in water: (20 °C): 77 g/l
- Melting point: ~ 250 °C (decomposes)
- pH(20 g/l H₂O, 20 °C) 8,7 - 9,3
- Hygroscopic

Toxicological data

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