

**Identification**

NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O  
M = 137,99 g/mol  
CAS [10049-21-5]  
EC number: 231-449-2  
Taric code: 2835 22 00

**Synonyms**

Sodium biphosphate, Monosodium orthophosphate, Primary sodium phosphate, Sodium phosphate monobasic

**Applications**

analytical chemistry, laboratory reagent, synthesis of organic products, for pharmaceuticals synthesizing, for softening water, in food industry (E 339), in pharma industry.

**Specifications**

assay (acidimetric, referred to dried sample).....	98,0 - 100,5 %	chlorides (Cl).....	max. 0,014 %
Identification sodium.....	passes test	sulfates (SO <sub>4</sub> ).....	max. 300 ppm
Identification phosphate.....	passes test	aluminium,calcium and related elements.....	passes test
appearance of solution.....	clear and colourless	arsenic (As).....	max. 2 ppm
insoluble in water.....	max. 0,2 %	iron (Fe).....	max. 10 ppm
acidity.....	passes test	reducing substances.....	passes test
pH (5 %, H <sub>2</sub> O).....	4,1 - 4,5	water content.....	10,0 - 15 %
		loss on drying (130 °C).....	11,5 - 14,5 %

**Physical data**

- Appearance: crystals, colourless or white
- Spec. Density: 2,04 g/cm<sup>3</sup>
- Bulk density: ~ 880 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 850 g/l
- Melting point: ~ 100 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 4,1 - 4,5

**Transport/storage**

- 10°C - 30°C