

Identification

 $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$

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_4).....	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_2O).....	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/cm³
- Bulk density: ~ 880 kg/m³
- Solub. in water: (20 °C): 850 g/l
- Melting point: ~ 100 °C (decomposes)
- pH(50 g/l H_2O , 20 °C) 4,1 - 4,5

Transport/storage

- 10°C - 30°C