

Identification

NaH₂PO₄
M = 120,0 g/mol
CAS [7558-80-7]
EC number: 231-449-2
Taric code: 2835 22 00

Synonyms

Sodium biphosphate, Sodium phosphate monobasic

Applications

analytical chemistry, laboratory reagent, in food industry (E 339), in pharma industry.

Specifications

| | | | |
|--|----------------------|--|------------|
| assay (acidimetric, referred to dried sample)..... | 98,0 - 100,5 % | loss on drying (130 °C)..... | max. 1,0 % |
| identification..... | passes test | water (K.F.)..... | max. 2,0 % |
| appearance of solution..... | clear and colourless | Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013. | |
| insoluble in water..... | max. 0,2 % | Residual solvents are analysed according to guideline CPMP/ICH/283/95. | |
| pH (5 %, H ₂ O)..... | 4,1 - 4,5 | | |
| chlorides (Cl)..... | max. 0,014 % | | |
| sulfates (SO ₄)..... | max. 300 ppm | | |
| aluminium, calcium and related elements..... | passes test | | |
| arsenic (As)..... | max. 2 ppm | | |
| iron (Fe)..... | max. 10 ppm | | |
| reducing substances..... | passes test | | |

Physical data

- Appearance: bulky powder, white
- Bulk density: ~ 940 kg/m³
- Solub. in water: (20 °C): 850 g/l
- Melting point: 200 °C
- pH(50 g/l H₂O, 20 °C) ~ 4,5

Toxicological data

- LD 50 (oral, rat): 8290 mg/kg
- WGK: 1
- Poison class CH (Swiss): 5