

**Sodium dihydrogen phosphate dihydrate, for analysis, ExpertQ®,
Reag. Ph Eur****Identification**

NaH₂PO₄·2H₂O
M = 156,01 g/mol
CAS [13472-35-0]
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, for pharmaceuticals synthesizing, in food industry (E 339).

Specifications

assay (acidimetric, referred to dried sample).....	98,0 - 100,5 %	cobalt (Co).....	max. 0,005 %
identity.....	passes test	copper (Cu).....	max. 0,005 %
appearance of solution.....	clear and colourless	heavy metals (as Pb).....	max. 0,0010 %
insoluble matter.....	max. 0,2 %	iron (Fe).....	max. 0,001 %
pH (5 %, H ₂ O).....	4,2 - 4,5	lead (Pb).....	max. 0,0001 %
chlorides (Cl).....	max. 0,005 %	magnesium (Mg).....	max. 0,005 %
fluorides (F).....	max. 0,0010 %	mercury (Hg).....	max. 1 ppm
sulphates (SO ₄).....	max. 0,01 %	nickel (Ni).....	max. 0,005 %
arsenic (As).....	max. 0,0001 %	potassium (K).....	max. 0,005 %
cadmium (Cd).....	max. 1 ppm	zinc (Zn).....	max. 0,025 %
calcium (Ca).....	max. 0,005 %	reducing substances.....	passes test
		loss on drying (130 °C).....	21,5 - 24,0 %

Physical data

- Spec. Density: 1,92 g/cm³
- Bulk density: ~ 1000 kg/m³
- Solub. in water: (20 °C): 850 g/l
- Melting point: 60 °C
- pH(50 g/l H₂O, 20 °C) ~ 4,2 - 4,5

Transport/storage

- 10°C - 30°C