

**di-Sodium hydrogen phosphate dihydrate, for analysis, ExpertQ®,
Reag. Ph Eur****Identification**

Na₂HPO₄·2H₂O
M = 177,99 g/mol
CAS [10028-24-7]
EC number: 231-448-7
Taric code: 2835 22 00

Synonyms

Sodium monohydrogen phosphate, Sodium phosphate dibasic

Applications

analytical chemistry, in buffer solutions (phosphates).

Specifications

assay (acidimetric, referred to dried sample).....	99,5 - 101,0 %	copper (Cu).....	max. 3 ppm
identification.....	passes test	heavy metals (as Pb).....	max. 0,001 %
appearance of solution.....	clear and colourless	iron (Fe).....	max. 0,001 %
pH (5 %, H ₂ O).....	9,0 - 9,2	potassium (K).....	max. 0,005 %
chlorides (Cl).....	0,001 %	lead (Pb)	max. 0,0001 %
sulfates (SO ₄).....	max. 0,005 %	monosodium phosphate.....	max. 2,5 %
total nitrogen (as N).....	max. 0,001 %	reducing substances.....	passes test
arsenic (As).....	max. 0,0004 %	loss on drying (130 °C).....	19,5 - 21,0 %

Physical data

- Appearance: crystals, colourless or white
- Spec. Density: 2,1 g/cm³
- Bulk density: ~ 850 - 1000 kg/m³
- Solub. in water: (20 °C): 93 g/l
- Melting point: 92,5 °C (release of crystalline water)
- pH(50 g/l H₂O, 20 °C) ~ 9,1 - 9,4

Transport/storage

- 10°C - 30°C