

Sodium dihydrogen phosphate monohydrate, molecular biology grade**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).

Specifications

assay (acidimetric)..... min. 99,5 %
identity (IR-spectrum)..... passes test
absorbance of an aqueous solution 0,1 M in a 1 cm cell at 260 nm
max. 0,01 AU
absorbance of an aqueous solution 0,1 M in a 1 cm cell at 280 nm
max. 0,01 AU

chlorides (Cl)..... max. 0,005 %
heavy metals (as Pb)..... max. 0,001 %
iron (Fe)..... max. 5 ppm
DNases, RNases, Proteases non detected

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 H₂O, 20 °C) 4,1 - 4,5

Transport/storage

- 10°C - 30°C