

di-Sodium hydrogen phosphate dihydrate, HPLC grade**Identification**

$\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$
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)..... min. 99,5 % | wavelength:..... absorbance: |
| identity (IR)..... passes test | 230 nm..... 0,1 AU |
| insoluble in water max. 0,4 % | 260 nm..... 0,06 AU |
| pH (5 %, H ₂ O)..... 9,0 - 9,2 | 280 nm..... 0,04 AU |
| max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at | 320 nm..... 0,02 AU |

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