

di-Sodium hydrogen phosphate dihydrate, HPLC grade

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).....	min. 99,5 %	lead (Pb).....	max. 0,001 %
identity (IR-spectrum).....	passes test	potassium (K).....	max. 0,05 %
insoluble matter.....	passes test		
pH (5 %, H ₂ O).....	9,0 - 9,2	max. absorbance of an aqueous sol.	
chlorides (Cl).....	max. 0,001 %	10 % in a 1,0 cm cell at	
sulfates (SO ₄).....	max. 0,005 %	wavelength:	absorbance:
total nitrogen (as N).....	max. 0,001 %	230 nm.....	0,1 AU
copper (Cu).....	max. 0,0003 %	260 nm.....	0,06 AU
heavy metals (as Pb).....	max. 0,001 %	280 nm.....	0,04 AU
iron (Fe).....	max. 0,001 %	320 nm.....	0,02 AU

Packaging**Packaging Code**

5 0 5

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

Toxicological data

- LD 50 (oral, rat): 17000 mg/kg (anhydrous substance)
- WGK: 1
- Poison class CH (Swiss): 5