

di-Sodium hydrogen phosphate anhydrous, Pharmpur®, Ph Eur, BP, USP

Identification

Na_2HPO_4
M = 141,96 g/mol
CAS [7558-79-4]
EC number: 231-448-7
Taric code: 2835 22 00

Synonyms

Disodium hydrogen phosphate, Sodium phosphate dibasic

Applications

analytical chemistry, in buffer solutions, in pharma industry.

Specifications

assay USP (acidimetric, referred to dried sample) 98,0 - 100,5 %	sulfates (SO_4).....max. 500 ppm
assay EP (acidimetric, referred to dried sample) 98,0 - 101,0 %	sodium dihydrogenphosphate (NaH_2PO_4)..... max. 2,5 %
Identification sodium..... passes test	arsenic (As) (EP).....max. 2 ppm
Identification phosphate..... passes test	arsenic (As) (USP)..... max. 16 ppm
Identification A (EP)..... passes test	iron (Fe)..... max. 20 ppm
appearance of solution..... clear and colourless	reducing substances..... passes test
insoluble in water..... max. 0,4 %	loss on drying (105 °C, 4h) max. 1,0 %
chlorides (Cl^-)..... max. 200 ppm	loss on drying (130 °C)..... max. 5,0 %

Physical data

- Appearance: floury powder, white
- Spec. Density: 1,53 g/cm³
- Bulk density: ~ 880 kg/m³
- Solub. in water: (20 °C): 77 g/l
- Melting point: ~ 250 °C (decomposes)
- pH(20 g/l H_2O , 20 °C) 8,7 - 9,3
- Hygroscopic

Transport/storage

- 10°C - 30°C