PO0257

di-Potassium hydrogen phosphate anhydrous, extra pure, Pharmpur®, Ph Eur, BP, USP

Identification

K_2HPO_4
M = 174,18 g/mol
CAS [7758-11-4]
EC number: 231-834-5
Taric code: 2835 24 00

Synonyms

Dipotassium hydrogen phosphate, Potassium phosphate dibasic

Applications

analytical chemistry, in buffer solutions (phosphates), nutrient media for bacterial culture, in pharma industry.

Specifications

assay (acidimetric, on dried sample)	98,0 - 100,5 %	potassium dihydrogen phosphate or	
identification	passes test	tri-potassium phosphate	passes test
appearance of solution	clear and colourless	reducing substances	passes test
pH (5 %, H_2O)	8,5 - 9,6	loss on drying (105 °C)	max. 1,0 %
insoluble matter	max. 0,2 %	loss on drying (130 °C)	max. 2,0 %
chlorides (Cl)	max. 200 ppm		
carbonate	passes test	Elemental impurities are analysed	
fluorides (F)	max. 0,001 %	according to guideline	
sulfates (SO_4)	max. 0,1 %	CHMP/ICH/353369/2013.	
arsenic (As)	max. 2 ppm		
iron (Fe)	max. 10 ppm	Residual solvents are analysed	
sodium (Na)	passes test	according to guideline	
potassium dihydrogen phosphate	max. 2,5 %	CPMP/ICH/283/95.	

Physical data

- Appearance: powder, white
- Spec. Density: 2,44 g/cm^3
- Bulk density: ~ 700 - 1000 kg/m^3
- Solub. in water: (20 °C): soluble
- pH(10 g/l H_2O, 20 °C) 8,7 - 9,4

Toxicological data

- WGK: 1
- Poison class CH (Swiss): 5

Transport/storage

- Store between 15°C and 25°C