

Potassium dihydrogen phosphate, HPLC grade**Identification**

KH_2PO_4
M = 136,09 g/mol
CAS [7778-77-0]
EC number: 231-913-4
Taric code: 2835 24 00

Synonyms

Potassium biphosphate, Potassium phosphate monobasic, Primary potassium phosphate, Mono-potassium phosphate

Applications

analytical chemistry; in buffer solutions.

Specifications

assay (acidimetric).....	min. 99,5 %	max. absorbance of an aqueous sol.	
identity (IR-spectrum).....	passes test	10 % in a 1,0 cm cell at	
insoluble matter.....	passes test	wavelength:	absorbance:
pH (5 %, H_2O).....	4,2 - 4,5	210 nm.....	0,1 AU
chlorides (Cl).....	max. 0,0005 %	220 nm.....	0,06 AU
iron (Fe).....	max. 5 ppm	230 nm.....	0,04 AU
heavy metals (as Pb).....	max. 5 ppm	300 nm.....	0,02 AU

Physical data

- Appearance: humid crystals, colourless or white
- Spec. Density: 2,34 g/cm³
- Bulk density: ~ 1200 kg/m³
- Solub. in water: (20 °C): 222 g/l
- Melting point: ~ 253 °C (decomposes)
- pH(50 g/l H_2O , 20 °C) ~ 4,4

Toxicological data

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