

**Potassium dihydrogen phosphate, HPLC grade****Identification**

$\text{KH}_2\text{PO}_4$   
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 %	heavy metals (as Pb).....	max. 5 ppm
identity (IR-spectrum).....	passes test	max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at	
insoluble matter.....	passes test	wavelength:.....	absorbance:
pH (5 %, H <sub>2</sub> O).....	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
		300 nm.....	0,02 AU

**Physical data**

- Appearance: humid crystals, colourless or white
- Spec. Density: 2,34 g/cm<sup>3</sup>
- Bulk density: ~ 1200 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 222 g/l
- Melting point: ~ 253 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 4,4

**Transport/storage**

- 10°C - 30°C