

DI-POTASSIUM HYDROGEN PHOSPHATE TRIHYDRATE

- Synonyms: Secondary potassium phosphate, Potassium phosphate dibasic
- $K_2HPO_4 \cdot 3H_2O$

- M = 228,23 g/mol
- CAS [16788-57-1]
- EINECS-No.: 231-834-5

- Solub. in water: (20 °C): freely soluble
- Tariff number: 2835 24 00 00
- Applications: in buffer solutions (chromatography).

PO0269 di-Potassium hydrogen phosphate trihydrate, EssentQ®

assay (acidimetric) 98 - 102 %
 insoluble in water max. 0,01 %
 pH (5 %, H₂O) 8,5 - 9,6
 chlorides (Cl) max. 0,005 %
 sulfates (SO₄) max. 0,01 %
 nitrogen compounds (as N) max. 0,005 %

arsenic (As) max. 5 ppm
 copper (Cu) max. 0,003 %
 iron (Fe) max. 0,003 %
 lead (Pb) max. 0,003 %
 nickel (Ni) max. 0,003 %

ART. NO.	VOLUME	CONTAINER
PO02690500	500 g	
PO02691000	1 kg	
PO0269005P	5 kg	

PO0271 di-Potassium hydrogen phosphate trihydrate, ExpertQ®, for analysis, Reag. Ph Eur

assay (acidimetric) min. 98 %
 insoluble in water max. 0,01 %
 pH (5 %, H₂O) 8,5 - 9,6
 chlorides (Cl) max. 0,001 %
 sulfates (SO₄) max. 0,005 %
 total nitrogen (as N) max. 0,001 %
 arsenic (As) max. 0,5 ppm

copper (Cu) max. 0,003 %
 heavy metals (as Pb) max. 0,001 %
 iron (Fe) max. 5 ppm
 lead (Pb) max. 0,001 %
 nickel (Ni) max. 0,001 %
 sodium (Na) max. 0,1 %

ART. NO.	VOLUME	CONTAINER
PO02710500	500 g	
PO02711000	1 kg	
PO0271005P	5 kg	

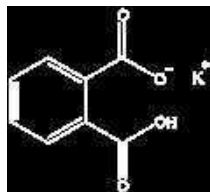
PO0270 di-Potassium hydrogen phosphate trihydrate, HPLC grade

assay (acidimetric) min. 99 %
 identity (IR-spectrum) passes test
 insoluble matter passes test
 pH (5 %, H₂O) 9,2 - 9,4

max. absorbance of an aqueous sol. 10% in a 1,0 cm cell at
 wavelength absorbance
 230 nm 0,1 AU
 240 nm 0,06 AU
 250 nm 0,04 AU
 310 nm 0,02 AU

ART. NO.	VOLUME	CONTAINER
PO02700250	250 g	

POTASSIUM HYDROGEN PHTHALATE



- Synonyms: Potassium biphthalate, Phthalic acid monopotassium salt, KHP
- $C_8H_5KO_4$
- M = 204,22 g/mol
- CAS [877-24-7]
- EINECS-No.: 212-889-4
- Solub. in water: (20 °C): 80 g/l
- Melting point: 295 - 300 °C

- LD 50 (oral, rat): > 3200 mg/kg
- Tariff number: 2917 39 80 80
- Applications: analytical chemistry, titrant in volumetric analysis (bases), in buffer solutions.

PO0130 Potassium hydrogen phthalate, ExpertQ®, for analysis, Reag. Ph Eur

assay (acidimetric, on dried sample) min. 99,9 %
 identity (IR-spectrum) passes test
 insoluble in water max. 0,005 %
 phthalic acid max. 0,005 %
 chlorides (Cl) max. 0,002 %
 sulfates (SO₄) max. 0,005 %
 cadmium (Cd) max. 5 ppm
 cobalt (Co) max. 5 ppm

copper (Cu) max. 2 ppm
 heavy metals (as Pb) max. 5 ppm
 iron (Fe) max. 5 ppm
 lead (Pb) max. 5 ppm
 nickel (Ni) max. 5 ppm
 sodium (Na) max. 0,01 %
 zinc (Zn) max. 5 ppm
 loss on drying (105 °C) max. 0,2 %

ART. NO.	VOLUME	CONTAINER
PO01300500	500 g	
PO01301000	1 kg	
PO0130005P	5 kg	

PO0131 Potassium hydrogen phthalate, secondary standard for volumetric titrations, Titrasure®

assay (acidimetric, on dried sample) 99,95 - 100,05 %
 identity (IR-spectrum) passes test
 insoluble in water max. 0,005 %
 pH (0,05 mol/l, H₂O, 25 °C) 4,00 - 4,02
 chlorine compounds (as Cl) max. 0,003 %

chlorides (Cl) max. 0,002 %
 total nitrogen (as N) max. 0,001 %
 heavy metals (as Pb) max. 5 ppm
 iron (Fe) max. 5 ppm
 sodium (Na) max. 0,005 %
 sulfur compounds (as S) max. 0,002 %

ART. NO.	VOLUME	CONTAINER
PO01310100	100 g	