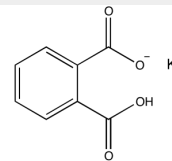


**Potassium hydrogen phthalate**, secondary standard for volumetric titrations, Titrasure®**Identification**

$C_8H_5KO_4$   
M = 204,22 g/mol  
CAS [877-24-7]  
EC number: 212-889-4  
Taric code: 2917 39 80

**Synonyms**

Potassium biphthalate, Phthalic acid monopotassium salt, KHP

**Applications**

analytical chemistry, titrant in volumetric analysis (bases), in buffer solutions.

**Specifications**

assay (acidimetric, on dried sample).....	99,95 - 100,05 %	total nitrogen (as N).....	max. 0,001 %
identity (IR-spectrum).....	passes test	heavy metals (as Pb).....	max. 5 ppm
insoluble in water.....	max. 0,005 %	iron (Fe).....	max. 5 ppm
pH (0,05 mol/l, H <sub>2</sub> O, 25 °C).....	4,00 - 4,02	sodium (Na).....	max. 0,005 %
chlorine compounds (as Cl).....	max. 0,003 %	sulphur compounds (as S).....	max. 0,002 %
chlorides (Cl).....	max. 0,002 %		

**Physical data**

- Spec. Density: 1,636 g/cm<sup>3</sup>
- Bulk density: ~ 900 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 80 g/l
- Melting point: 295 - 300 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 4,0

**Toxicological data**

- LD 50 (oral, rat): > 3200 mg/kg
- WGK: 1

**Transport/storage**

- Store between 15°C and 25°C