

**Potassium hexacyanoferrate(II) trihydrate, EssentQ®****Identification**

$K_4[Fe(CN)_6] \cdot 3H_2O$   
M = 422,39 g/mol  
CAS [14459-95-1]  
EC number: 237-722-2  
Taric code: 2837 20 00

**Synonyms**

Potassium ferrocyanide, Yellow prussiate of potash, Ferrocyanpotassium

**Applications**

analytical chemistry, laboratory reagent, in food industry.

**Specifications**

assay (permanganometric).....	min. 99 %	arsenic (As).....	max. 3 ppm
insoluble in water.....	max. 0,025 %	copper (Cu).....	max. 0,0025 %
chlorides (Cl).....	max. 0,05 %	lead (Pb).....	max. 0,001 %
sulfates (SO <sub>4</sub> ).....	max. 0,01 %	zinc (Zn).....	max. 0,0025 %
ferricyanide.....	passes test	water .....	max. 1 %

**Physical data**

- Appearance: crystals, yellow
- Spec. Density: 1,85 g/cm<sup>3</sup> (anhydrous substance)
- Bulk density: ~ 950 -1050 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 289 g/l
- Melting point: ~ 70 °C (release of crystalline water)
- pH(100 g/l H<sub>2</sub>O, 20° C) ~ 9,5 (anhydrous substance)

**Safety - GHS****Hazard Statements:**

H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements:**

P273: Avoid release to the environment.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- 10°C - 30°C