

European Pedagogics and Nutrition

Detection of iron ions (III)









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Cyanotype

Photographic technique giving blue prints, created by pram blue

Reaction of the thiocyanate with iron ions gives a blood-red coloration therefore is used in film technology to receive artificial (fake) blood.

Detection of iron ions in water

- Reagent: 20% KSCN solution, 10% potassium hexa iron(II) and solution containing iron ions(III)
- ▶ Lab equipment: tripod, tube, pipette
- ▶ Description of activities:
- ▶ transfer with pipette 3–5 ml sample solution
- containing iron ions two into the tube
 then drop a few drops off potassium rhodium into the first tube and potassium hexa iron(II) a second tube.
- In the tubes we observe:
- tube nr 1- dark red discolouration of the solution
- tube nr 2- blue precipitate
- In all tubes we confirmed the presence of iron ions(III)