

Confidential

1 burette

1 pipette

One thermometer

One retort stand

Three plastic beakers

One volumetric flask of 250cc

Labels

One measuring cylinder (100cm^3)

200cm^3 of **SA1**

200cm^3 of **SA2**

0.8g of solid **Q**

200cm^3 of 1M sulphuric acid

Q potassium per sulphate

SA1 is 0.02M potassium manganate(VII) solution.

SA2 is 0.1M ammonium ferrous sulphate solution.

8 test tubes

2 filter papers.

Starch indicator

Filter funnel

3g of **X**

4cc of **P** (Liquid **P** is propan-2-ol)

Solid **X** is a mixture of $KI + ZnCO_3 + PbCO_3$ in the ratio of 1:2:3