

Question 1

1(a) Balance (top loading), spatula, stirring rod, dropper, pipette (10 cm³), pipette (25 cm³), glass (filter) funnel, burette.

1(b)

| Burette readings (cm ³) | Titration 1 | Titration 2 | Titration 3 |
|-------------------------------------|-------------|-------------|-------------|
| Final volume | 2.00 | 1.85 | 1.50 |
| Initial volume | 21.95 | 21.85 | 19.50 |
| Volume of solution used | 19.95* | 20.00* | 18.00 |

1(c)(i) See table above.

1(c)(ii) Average volume = (volume used in titration 1 + volume used in titration 2)/2.

Average volume = {(19.95 + 20.00)/2} cm³. i.e. 19.98 cm³.

Actual accurate value to be used in subsequent calculations is 19.975cm³.

1(d) 1000 cm³ K₂Cr₂O_{7(aq)} contains 0.020 mol. K₂Cr₂O₇. 19.98 cm³ K₂Cr₂O_{7(aq)} contains (19.98 × (0.020/1000)) mol. K₂Cr₂O₇ i.e. 4.00 × 10⁻⁴ mol K₂Cr₂O₇.

Actual accurate value to be used in subsequent calculations is 3.995 × 10⁻⁴ mol K₂Cr₂O₇.

1(e) From the balanced equation, the Fe²⁺:Cr₂O₇²⁻ stoichiometric ratio is 6:1. So 6 moles of iron ions (Fe²⁺) react with one mole of dichromate ions (Cr₂O₇²⁻).

1(f) Moles of iron in sample = (6 × moles of Cr₂O₇²⁻ used in titration) i.e. (6 × 4.00 × 10⁻⁴) mol. = 2.4 × 10⁻³ mol. iron.

Actual accurate value to be used in subsequent calculations is 2.397 × 10⁻³ mol.

1(g) Mass of iron in salt sample = (moles of iron in sample × molar mass of iron).

Mass of iron in salt sample = (2.4 × 10⁻³ × 55.8) g iron i.e. 0.134 g iron.

Actual accurate value to be used in subsequent calculations is 0.1337526 g.

1(h) Percentage of iron in iron salt sample = (mass of iron in sample/mass of sample) × 100%.

Percentage of iron in iron salt sample = (0.134/0.500) × 100% i.e. 26.80% iron.

If accurate values were used in all calculation steps leading to this one, the final answer would be 26.75%.

1(i) Reduction of a species is the gain of an electron, or electrons, by that species.

1(j) A reducing agent is a species which causes the reduction of another species, and is itself oxidized when it reacts; it loses an electron, or electrons.

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Jin-Ying Zhang



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