

Consolidated Prep List

Chemicals

Label	Chemical	Preparation	Quantity (mark up)	Quantity (approx. required)	Remarks	Qn
FA 1	Manganese(II) sulfate 0.25M and 0.25M aluminum sulfate		10 cm ³	5 cm ³	Provide in vial	1
FA 2	1.0 mol dm ⁻³ sodium carbonate		5 cm ³	2 cm ³	Provide in vial	1
FA 3	2.0 mol dm ⁻³ hydrochloric acid		10 cm ³	5 cm ³	Provide in vial	1
FA 4	30%(v/v) ethanol + 0.3 mol dm ⁻³ glucose		10 cm ³	5 cm ³	Provide in vial	1
	<u>Bench reagents</u> HNO ₃ NaOH NH ₃ AgNO ₃ Limewater I ₂ (aq) Mg turnings	Prepare around 1 long piece of Mg turnings in a vial (students will add all).				1
FA 5	0.60 mol dm ⁻³ NaHCO ₃		80 cm ³	40 cm ³		2
FA 6*	1.00 mol dm ⁻³ NaOH		120 cm ³ (Q2 & 3)	50 cm ³ (Q2) 15 cm ³ (Q3)		2 & 3
FA 8	oxalic acid solution	Dissolve 2.52 g of H ₂ C ₂ O ₄ ·2H ₂ O (oxalic acid) in 1 dm ³ of solution.	150 cm ³	100 cm ³		3
Solution I	Thymolphthalein indicator		5 cm ³	2 cm ³	Provide in vial	3

Apparatus

S/N	Item	Quantity	Qn	Remarks
1	plastic droppers	5 (Q1) + 1 (Q2) + 2 (Q3) = 8	1 & 2 & 3	
2	Glass rod	1	1	
3	Paper towels	1 pack	1	
4	Test tubes	7	1	Require 7 test tubes.
5	Bunsen burner	1	1	
6	Heat mat	1	1	
7	Windshield	1	1	
8	Lighter	1	1	
9	Wooden splint	some	1	
10	Test-tube holder	1	1	
11	Test-tube brush	1	1	
12	Universal indicator paper	1	1	
13	Filter paper	1	1	
14	Deionised water bottle	1	1 & 3	
15	Thermometer (0.2 °C division)	1	2	
16	Styrofoam cup (to be given as separate cups)	2	2	
17	250 cm ³ beaker	1	2	
18	50 cm ³ burette*	1 (labelled FA6 (to share with Q2 & 3)) 1 (unlabelled)	2 & 3	
19	50 cm ³ measuring cylinder	1	2	
20	Filter funnel	2	1 & 2 & 3	
21	plastic dropper	1	2	
22	retort stand with burette clamp	1	3	
23	25.0 cm ³ pipette	1	3	
24	pipette filler	1	3	
25	250 cm ³ conical flask	2	3	
26	white tile	1	3	
27	250 cm ³ graduated flask	1	3	
28	100 cm ³ beaker	1	3	