



Where W

Equipment Needed

burette and stand 100 mL volumetric flask
20 mL pipette 250 mL conical flasks
10 mL and 100 mL measuring cylinders

Solutions Needed

Potassium iodate solution: (0.002 mol L⁻¹). If possible, dry 1 g of potassium iodate for several hours or overnight at 100°C. Allow to cool and accurately weigh about 0.43g of potassium iodate and dissolve in 1 L of distilled water in a volumetric flask.

Starch indicator solution: (0.5%). Weigh 0.25 g of soluble starch and add it to 50 mL of near boiling water in a 100 mL conical flask. Stir to dissolve and cool before using.

Potassium iodide solution: (0.6 mol L⁻¹) Dissolve 10 g solid KI in about 50 mL of distilled water in a 100 mL volumetric flask and dilute to 100 mL with distilled water

Dilute hydrochloric acid: (1 mol L⁻¹).

Method

Sample Preparation

For Vitamin C tablets: Dissolve a single tablet in 200 mL of distilled water (in a volumetric flask if possible).

For fresh fruit juice: Strain the juice through cheesecloth to remove seeds and pulp which may block pipettes.

For packaged fruit juice: This may also need to be filtered.

