

SCHEDULE 2

METHODS OF ANALYSIS

PART II

8.

DETERMINATION OF TOTAL MAGNESIUM

REAGENTS

3.—(3.1) Hydrochloric acid, I M solution.

(3.2) Hydrochloric acid, 0.5 M solution.

(3.3) Standard solution of magnesium, 1.00 mg/ml.

(3.3.1) Dissolve 1.013 grams of magnesium sulphate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) in the 0.5 M hydro-chloric acid solution (3.2).

(3.3.2) Weigh out 1.658 grams of magnesium oxide (MgO), previously calcined to remove all traces of carbonation. Place in a beaker with 100 ml of water and 120 ml of I M hydrochloric acid (3. 1). When it has dissolved, decant quantitatively into a 1,000 ml graduated flask. Make up the volume by adding and mix

or

Commercial standard solution

(3.3.3) The laboratory is responsible for testing such solutions.

Strontium chloride solution

(3.4) Dissolve 75 grams of strontium chloride ($\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$) in a hydrochloric acid solution (3.2) and make up to 500 ml with the same acid solution.