

SCHEDULE 2

METHODS OF ANALYSIS

12a.

DETERMINATION OF WATER-SOLUBLE MAGNESIUM — ATOMIC ABSORPTION SPECTROPHOTOMETRIC METHOD

4.3 REAGENTS

4.3 Magnesium standard solution: dissolve 1.013 g magnesium sulphate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) in 0.5 N hydrochloric acid solution (4.2) and dilute to 100 ml with this acid.

1 ml of this solution contains 1 mg of magnesium (Mg).

or

weigh out 1.658 g of magnesium oxide, previously calcined at 600°C for 2 hours, place in a beaker with 100 ml of water and 120 ml of approximately N hydrochloric acid (4.1). After dissolution, transfer quantitatively into a one litre graduated flask, make up the volume with water and mix.

1 ml of this solution contains 1 mg of magnesium (Mg).