

SCHEDULE 2
METHODS OF ANALYSIS

PART I

9h.

EXTRACTION OF PHOSPHORUS BY WATER

1 SCOPE

1

This method is for the determination of water-soluble phosphorus.

2 FIELD OF APPLICATION

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Applicable to all fertilisers where water-soluble phosphorus is to be determined.

3 PRINCIPLE

3. Extraction in water by shaking under specified conditions.

4 APPARATUS

4

4.1 500 ml graduated flask with a wide neck (eg Stohmann).

4.2 Rotary shaker, 35 – 40 turns per minute.

5 PREPARATION OF THE SAMPLE

5. See Method 1.

6 PROCEDURE

6

Extraction

6.1 Weigh to the nearest 0.001 g, 5 g of the prepared sample and place it in a 500 ml graduated flask (4.1). Add 450 ml of water, the temperature of which must be between 20°C and 25°C. Close the flask and shake on the rotary shaker (4.2) for 30 minutes. Then make up to the mark with water, mix thoroughly and filter through a dry fluted paper into a dry container.

Determination

6.2 Determine the phosphorus using Method 10, on an aliquot portion of the clear filtrate.