

SCHEDULE 2

METHODS OF ANALYSIS

PART II

8.

DETERMINATION OF TOTAL MAGNESIUM

EXTRACTION OF TOTAL MAGNESIUM

8.1

1 SCOPE AND FIELD OF APPLICATION

1

1.1 This method is applicable to all fertilisers.

2 PRINCIPLE

2

2.1 Solubilisation by boiling in dilute hydrochloric acid.

3 REAGENTS

3

3.1 Diluted hydrochloric acid:

One volume of hydrochloric acid ($d = 1.18$) plus one volume of water.

4 APPARATUS

4

4.1 Electric hot plate with adjustable temperature.

5 PREPARATION OF THE SAMPLE

5

5.1 See Method 1.

6 PROCEDURE

6

Test sample

6.1 Magnesium is extracted from a test sample of five grams weighed to within one milligram.

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Preparation of the solution

6.2 Add approximately 400 millilitres of water and, taking care when the sample contains a significant quantity of carbonates, 50 millilitres of dilute hydrochloric acid (4.1) a small amount at a time. Bring to the boil and maintain for 30 minutes. Allow to cool, stirring occasionally. Decant quantitatively into a 500 millilitre graduated flask. Make up to volume with water, and mix. Pass through a dry filter into a dry container, discarding the initial portion. The extract must be completely transparent. Stopper if the filtrate is not used immediately.