

Applications Methods

Method BWB/8

The Determination of Potassium in Fertilisers



Equipment Required:

1. BWB Flame Photometer
2. Balance accurate to +/-0.0005g.
3. Filter paper,
4. Potassium chloride (Reagent)

Method:

1. Prepare a series of Potassium standards covering the range 0-10 ppm using Potassium chloride diluted with distilled water.
2. Weigh out accurately 10g fertilizer and add 300ml distilled water. Shake for 30 minutes.
3. Transfer the solution to a 500ml volumetric flask and dilute to the mark using distilled water.
4. Filter the solution,
5. If necessary dilute the filtrate to produce an expected concentration within the range 0-10 ppm Potassium
6. Aspirate a Blank and the Potassium Standards into the BWB Flame Photometer and enter each value as prompted.
7. Aspirate the sample into the flame photometer and record the result from the display.
8. The percentage Potassium contained in the fertilizer can be determined taking into account the dilution factor.