

SCHEDULE 2

METHODS OF ANALYSIS

PART I

18.

EXTRACTION OF WATER — SOLUBLE SULFUR

7.3 PROCEDURE

7.3 Oxidation of the aliquot portion to be analysed.

Take an aliquot of the extraction solution not exceeding 50 ml and, if possible, containing between 20 and 100 mg of sulfur (S).

Make up the volume to 50 ml with water, if necessary. Add 3 ml of sodium hydroxide solution (4.2) and 2 ml of hydrogen peroxide solution (4.3). Cover with a watch glass and boil gently for one hour on the hot plate (5.3). Keep adding 1 ml increments of hydrogen peroxide solution for as long as the reaction continues (maximum quantity 5 ml).

Then leave to cool. Remove the watch glass and wash the underside into the beaker. Add approximately 20 ml of dilute hydrochloric acid (4.1). Make up to approximately 300 ml with water.

Determine the content of sulfates on the whole of the oxidised solution in accordance with method 23.