

SCHEDULE 2

METHODS OF ANALYSIS

9e.

EXTRACTION OF PHOSPHORUS BY ALKALINE AMMONIUM CITRATE (PETERMANN'S METHOD) AT 65°C

Preparation from citric acid and ammonia:

dissolve 865 g citric acid monohydrate in about 2,500 ml distilled water in a container of about 5 litres capacity. Place container in an ice bath and add in small amounts, shaking continually, 966 ml of ammonia solution ($d = 0.880$ g/ml), from a freshly opened bottle, (or an equivalent amount of diluted ammonia, for example if $d = 0.906$ g/ml, then 1,114 ml are required). Adjust the temperature to 20°C, transfer to a 5 litre graduated flask, make up to the mark with distilled water and mix.