

ANNEX

DETERMINATION OF DICHLOROMETHANE AND 1,1,1-TRICHLOROETHANE DETERMINATION OF AMMONIA

6. PROCEDURE

- 6.1. Weigh into a 100 ml standard flask a mass (m) of the sample corresponding to 150 mg maximum of ammonia.
- 6.2. Add 10 ml of water, 10 ml of methanol (4.1) and 10 ml of barium chloride solution (4.2). Make up to 100 ml with methanol (4.1).
- 6.3. Mix and leave overnights in the refrigerator (5 °C).
- 6.4. Then filter, or centrifuge the still cold solution in closed tubes for 10 minutes, so as to obtain a clear filtrate or supernatant layer.
- 6.5. Pipette 40 ml of this clear solution into the steam distillation apparatus (5.3), followed by 0,5 ml of antifoam liquid (4.5), where appropriate.
- 6.6. Distil and collect 200 ml of distillate in a 250 ml beaker containing 10 ml of standard sulphuric acid (4.4) and 0,1 ml of indicator (4.7).
- 6.7. Back titrate the excess acid with standard sodium hydroxide solution (4.6).
- 6.8. NB: For potentiometric determination, collect 200 ml of distillate in a 250 ml beaker containing 25 ml of orthoboric acid solution (4.3) and titrate with standard sulphuric acid (4.4), recording the neutralization curve.