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**Doc No :** TDSAE337**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE337**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE337

PARAMETER: AMMONIA( Salt water)

RANGE: 0.05 - 8.0 ppm as NH4

**2 METHOD**

In a strongly alkaline solution, ammonia reacts with Nessler's Reagent to produce a yellow - Orange colored complex in direct proportion to the ammonia concentration. Results are expressed in ppm (mg/L) ammonia.

**3 APPLICATION**

Salt water, Sea water

**4 INTERFERENCE**

Addition of extra stabilizer solution to the sample prior to analysis makes this chemistry applicable for the analysis of natural seawater and some synthetic seawaters. Other synthetic seawaters may cause the reagent to precipitate. Other types of samples may require a preliminary distillation to remove interferences. If distillation is not possible, dilution of the sample prior to analysis can help to minimize many interferences. High levels of calcium, magnesium, and other dissolved solids may also cause the reagent to precipitate. Iron and sulfide may cause the reagent to precipitate. Residual free chlorine may interfere with this by

**5 METHOD CONTROL**

To Check test reagents,

Preparation of 1000 ppm Ammonia standard solution: Take 2.966 gm of Ammonium Chloride in 1000ml standard volumetric flask, Dilute it With demineralised water, stir well.

**6 REAGENTS AND ACCESSORIES**

Reagents: NH1 (2Nos)

Accessories: 5 ml Comparator tube (2Nos), Procedure Label(1Nos), Colour Comparator, Rubber plug(2nos)

**7 STORAGE**

The test reagents are stable up to the date stated on the pack when stored closed at ambient temperature.

**8 REFERENCE**

IS : 3025 ( Part 34 ) - 1988, APHA Standard Methods, 22nd ed., Method 4500-NH3 C Standard Methods for Chemical Analysis of Water and waste water.

**9 DIRECTION FOR USE**

- 1) Add 10 drops of NH 1 in the 5 ml comparator tube.
- 2) Then add sample in the comparator tube up to the mark, close the tube with rubber plug & invert the tube several times to mix solution, Wait for 10 minutes.
- 3) Place the tube in the comparator slot, after vigorously shaking.
- 4) Read the AMMONIA as NH3/NH4 as follows.
  - a) Hold the comparator vertically against the light at eye level.
  - b) Match the colour to the colour shade on the comparator.
  - c) Read the AMMONIA value corresponding to colour.