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Doc No : TDSAE307**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE307**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE307

PARAMETER: AMMONIA

RANGE: 0.5 - 8.0 ppm as NH₃/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

Drinking Water, Mineral Water, Well Water, Swimming Pool Water, Surface and Ground Water, Aquaculture, Boiler Water, Process Water, Industrial Wastewater, Effluent Water, Cooling System Water, Chiller Water etc

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 giving low test results or by forming a precipitate. Hydrazine also interfere with this chemistry. Glycine will cause high test results. Chloride at concentrations up to approximately 2% will not interfere. Nitrite at up to approximately 200 ppm as N does not interfere.

5 METHOD CONTROL

To Check test reagents,

To prepare 1000 ppm Ammonia standard solution-Take 2.966 gm of Ammonium Chloride in 1000ml standard volumetric flask, Dilute it With demineralised water, stir well. Dilute this standard solution with distilled water to 1.0 mg/l NH₄, and analyse as described in procedure card.

6 REAGENTS AND ACCESSORIES

Reagents: NH₁ (1Nos)

Accessories: 10 ml Test Jar (1 no), Comparator tube (2Nos), Procedure Label(1Nos), Colour Chart.

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. Take 10 ml of sample in the test jar, provided.
2. Add 10 drops* of NH₁. Mix thoroughly wait for ten minutes.
3. Transfer the content in small comparator tube provided here.
4. Read the ppm Ammonia as follows:
 - a) Place the comparator tube on the inner white circle, of the colour comparison chart.
 - b) View from the top of the comparator tube to compare the sample colour and the colour around.
 - c) Read the ppm Ammonia from the colour chart, after arriving at the correct match.