

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAE246**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE246**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE246

PARAMETER: CHLORINE

RANGE: 10 - 200 MG/L as Cl

2 METHOD

Chlorine will liberate free iodine from potassium iodide solutions at pH 8. The liberated iodine is titrated with a standard solution of sodium thiosulphate. The result is expressed as mg/l (ppm) Cl.

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

Oxidised form of manganese and other oxidising agent interfere. Reducing agent such as other sulphides also interfere. The neutral titration minimize the interfering effect of ferric and nitrite ions, the acid titration preferred because some form of combined chlorine do not react at pH 7.

5 METHOD CONTROL

To Check test reagents,

Prepare 4 ppm chlorine standard :- Take 0.1 ml 4% sodium hypochlorite solution in 1 liter standard volumetric flask. dilute it to 1000ml with demineralised water. Determine the concentration of prepared chlorine standard by using Sodium thiosulphate. (Iodometric method), Then analyse as described in procedure card.

6 REAGENTS AND ACCESSORIES

Reagents: CLNA(1Nos), CLNB(1Nos), DO4(1Nos), CLND(1 No)

Accessories: 25 ml Test Jar(1Nos), Procedure Label(1Nos)

7 STORAGE

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

8 REFERENCE

APHA Standard Methods, 22nd ed., Method4500- Cl B – Standard Methods for Chemical Analysis of Water and Waste water.

9 DIRECTION FOR USE

Direction for use:-

1)Take 10 ml. of water sample to be tested in a test jar

2)Add 10 drops of Reagent CLNA

3)Add 10 drops of Reagent CLNB. Mix well.

4)Add 5 drops of Reagent DO4. Mix well

5)Now drop wise add Reagent CLND, counting the number of drops while mixing, until colour changes from Blue to colourless.

CALCULATIONS:

Chlorine ppm as Chlorine = 10 X (No. of drops of reagent CLND).