

**RAKIRO BIOTECH SYSTEMS PVT LTD**

R-466, TTC Industrial Area, MIDC

Rabale, Navi Mumbai - 400701

Tel No. +91-022-47804040

Email :- sales@rakiro.net

**Doc No :** TDSAE237**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE237**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE237

PARAMETER: NITRITE

RANGE: 100- 2000 mg/l as NaNO<sub>2</sub>**2 METHOD**

Nitrite is oxidized by the ceric sulfate titrant. Ferroin indicator indicate the endpoint of the titration. Results are expressed as ppm (mg/L) Nitrite as NaNO<sub>2</sub>.

**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**

Sample constituents that are oxidized by ceric sulfate, including hydrogen peroxide and ferrous iron, will interfere positively with this test. Chromate interferes by masking the endpoint. Ethylene glycol, even at percent levels, does not interfere

**5 METHOD CONTROL**

To Check test reagents,

Prepare 1000 ppm Nitrite as NO<sub>2</sub> standard :- Take 1.5 gm of sodium nitrite in 1000ml standard volumetric flask, dilute it with demineralised water up to 1000ml stir well, and analyse as described in procedure.

**6 REAGENTS AND ACCESSORIES**

Reagents: NTH1(1Nos), NTH4(2Nos)

Accessories: 25ML Plastic Test Jar(1Nos), Procedure Label(1Nos), Syringe(1 nos)

**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., Method 4500- NO<sub>2</sub> - B – Standard Methods for Chemical Analysis of Water and Waste water. IS 3025 (Part 34): 1988

**9 DIRECTION FOR USE**

1. Take 1 ml of water sample in the test jar and dilute to 10 ml with distilled water (Nitrite free water).
2. Add 2 drops of NTH 1. Shake the jar well to mix.
3. Add NTH4 accurately counting the drops \* while mixing until Pale blue or bluish green colour appears.

Calculations:

Nitrite ppm as NaNO<sub>2</sub> = 100 X (Number of drops of NTH4)