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Doc No :	TDSAE403
Date :	01-02-2024
Туре :	AQUASOL
Product Code:	AE403

# **PRODUCT DATA SHEET**

# 1 INFORMATION

CODE: AE403

PARAMETER: Carbon Dioxide

RANGE: - 2-40 & 10-200 ppm as CO2

## 2 METHOD

With this titrimetric chemistry, free CO2 reacts with sodium hydroxide to form sodium bicarbonate. The sample is titrated to a phenolphthalein endpoint. Results are expressed in ppm (mg/L) carbon dioxide (CO2).

### 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

Not Known

## 5 REAGENTS AND ACCESSORIES

Reagents: AK1 (1No), CO2B(1 no), CO2C(1 no) Accessories: 25 ml Test jar, Procedure Label(1Nos).

## 6 STORAGE

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

# 7 <u>REFERENCE</u>

APHA Standard Methods, 21st ed., Method 4500-CO2 C (2005).

# 8 DIRECTION FOR USE

1. Take 10 ml of water sample to be tested in the jar.

2.Add 5 drops of Reagent AK1 mix well to dissolve.

3.If a pink colour appears it indicates free CO 2 is absent.

4. If the sample remains colourless drop wise\* add Reagent CO2 B #, Counting the number of drops while gently swirling, until the definite pink colour persist for 30 seconds, when view through the depth of sample.

# IF the CO2 is more than 40 ppm then use Reagent CO2 C Instead of Reagent CO2 B.

Calculations :-

Free Carbon dioxide ppm as CO2 =  $2 \times (No. of drops of Reagent CO2 B)$ =  $10 \times (No. of drops of Reagent CO2 C)$ 

Note: The reagent must be protected from atmosphere CO 2 by keeping bottle closed all the time. Close the cap immediately after use.