visocolor® ECO Chlorine dioxide

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Test kit for performing colorimetric tests on chlorine dioxide in drinking water, water reservoirs and disinfectant solutions

Method:
At a pH value of 5 to 6, chlorine dioxide reacts with *N,N*-diethyl-1,4-phenylenediamine (DPD) and forms a red-violet dye.

Measurement range:
0.2–3.8 mg/L ClO_2

Contents of test kit (*refill pack):
sufficient for 150 tests

16 mL ClO_2-1*
18 mL ClO_2-2*
25 mL ClO_2-3*
2 screw-plug measuring glasses
1 slide comparator
1 color chart
1 plastic syringe 5 mL
1 instructions for use*

Hazard warning:
ClO_2-3 contains sulfuric acid 5–15 %.
For further information please ask for a safety data sheet.

Instructions for use:
also refer to the pictogram on the back of the color chart

1. Pour **5 mL water sample** into both of the measuring glasses using the plastic syringe.
   Place one of them on position A in the comparator.

Only add the reagent to measuring glass B.

2. Fill the second measuring glass with **2 drops of ClO_2-1**.
3. Seal the glass and mix.
4. Open the glass after **2 min** and add **3 drops of ClO_2-2**.
5. Add **3 drops of ClO_2-3**, seal the glass and mix.
6. Open the glass once again and place it on position B in the comparator.
7. Slide the comparator until the colors match in the inspection hole on top. **Immediately** check the measurement reading in the recess on the comparator reed. Mid-values can be estimated.
8. After use, rinse out both measuring glasses thoroughly and seal them.

The reagents can be used also for the **photometric evaluation** with photometer PF-12.
The method cannot be applied for the analysis of sea water.

Disposing of the samples:
The used analysis specimens can be flushed down the drain with tap water and channelled off to the local sewage treatment works.

Interferences:
Free chlorine up to 5 mg/L is not determined with this procedure and thus, does **not** interfere.

Storage:
Store the test kit in a cool (< 25 °C) and dry place.

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