

Chlorine dioxide

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 ClO₂

Contents of test kit (*refill pack):

sufficient for 150 tests

- 16 mL ClO₂-1*
- 18 mL ClO₂-2*
- 25 mL ClO₂-3*
- 2 screw-plug measuring glasses
- 1 slide comparator
- 1 color chart
- 1 plastic syringe 5 mL
- 1 instructions for use*

Hazard warning:

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

Procedure:**a) colorimetric determination with color chart**

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 ClO₂-1**.
3. Seal the glass and mix.
4. Open the glass after **2 min** and add **3 drops of ClO₂-2**, seal the glass and mix.
5. Add **3 drops of ClO₂-3**, 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.

b) photometric determination

The reagents are also suitable for **photometric evaluation**. Please refer to the separate instructions for photometric performance.

The method cannot be applied for the analysis of sea water.

Disposing of the samples:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

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.