visocolor®ECO Manganese

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Test kit for performing colorimetric tests on mangenese ions in surface water and sewage

Method:

Determination of total manganese with formaldoxime

Measurement range:

0.1-1.5 mg/L Mn

Contents of test kit (*refill pack):

sufficient for 70 tests

30 mL Mn-1*

30 mL Mn-2

4 g Mn-3*

1 measuring spoon 70 mm*

2 screw-plug measuring glasses

1 slide comparator

1 color chart

1 plastic syringe 5 mL

1 instructions for use'

Hazard warning:

Reagent Mn-1 contains paraformaldehyde 1–3 % and hydroxylammonium chloride 5–10 %, reagent Mn-2 contains ammonia 5–10 %. H314, H317, H351 Causes severe skin burns and eye damage. May cause

an allergic skin reaction. Suspected of causing cancer. P201, P260sh, P280sh, P303+361+353, P305+351+338, P310 Obtain sperecord, record, record, resources, resources and easy to do. Continue rinsing. For further information ask for a safety data

Instructions for use:

also refer to the pictogram on the back of the color chart

Pour a 5 mL water sample (the pH value of the sample must be between pH 1 and 13) into each of the measuring glasses using the plastic syringe. Place a measuring glass on position A in the comparator.

Only add the reagent to measuring glass B.

- Add 5 drops of Mn-1, seal the glass and mix. 2.
- 3. Add 7 drops of Mn-2, seal the glass and mix. Wait 1 min. 4 Add 1 level measuring spoonful of Mn-3, seal the glass and shake
- 5. Open the glass after 5 min and place it on position B in the comparator.
- 6.
- Slide the comparator until the colors match in the inspection hole on top. Check the measurement reading in the recess on the comparator reed. Mid-values can be estimated. After use, rinse out both measuring glasses thoroughly and seal them.

The reagents can be used for the **photometric evaluation** with photometer PF-12/PF-12 Plus .

The method can be applied also 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:

The following ions will not interfere: ≤ 0.1 mg/L Ni²+; ≤ 2 mg/L Cr, Co²+; ≤ 20 mg/L Cu²+, Fe³+; ≤ 50 mg/L Al³+, PO₄³-

Storage:

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