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Chloride

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

Method:

Chloride ions react with mercuric thiocyanate to produce undissociated mercuric chloride and to liberate thiocyanate ions. In the presence of ferric salts these thiocyanate ions produce a characteristic orange color.

Measurement range:

1-60 mg/L Cl

Contents of test kit (*refill pack): sufficient for 90 tests

2 x 20 mL CI-1

- 24 mL CI-2*
 - 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*.

Instructions for use:

- also refer to the pictogram on the back of the color chart 1. Pour a 5 mL water sample into each of the measuring glasses using the plastic syringe.
- Place one measuring glass on position A in the comparator.

- Only add the reagents to measuring glass of position and the comparator.
 Only add the reagents to measuring glass B.
 Add 10 drops of CI-1. Seal the glass and mix.
 Add 10 drops of CI-2. Seal the glass and mix.
 Open the glass after 1 min and place it on position B in the comparator.
- 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. 5. . Check
- 6. After use, seal them. use, rinse out both measuring glasses thoroughly (see "Disposal") and The method can not be applied for the analysis of sea water.

Measurement up to 300 mg/L chloride:

1. Pour a 1 mL water sample and 4 mL of distilled water into each of the measuring glasses.

Same procedure as described above. Multiply the read-off value by 5 (see "Conversion table").

Conversion table for measurements up to 300 mg/L chloride:

Read-off value in mg/L Cl⁻ Chloride concentration in mg/L Cl⁻ (read-off value . IA Y 5)

1	5
2	10
4	20
7	35
12	60
20	100
40	200
60	300

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

Disposal:

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

Interferences:

Bromide, cyanide, iodide, sulfide, thiocyanate and thiosulfate all interfere since they react in the same way as chloride. The following ions will not interfere: $\leq 2000 \text{ mg/L NO}_2^-$; $\leq 20 \text{ mg/L F}^-$.

Note

For the determination of chloride in concrete, please contact MACHEREY-NAGEL for special working instructions.

Storage:

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

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