visocolor® ECO

Iron 2

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

Method:
Combined with a triazine derivative, iron(II) ions form a violet complex. Iron(III) ions are also identified by means of a prior reduction with Fe-2.

Measurement range:
0.04–1.0 mg/L Fe

Contents of test kit (*refill pack):
sufficient for 100 tests

17 mL Fe-1*
5 g Fe-2*
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:
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:
a) colorimetric determination with color chart
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 a measuring glass on position A in the comparator.

Only add the reagent to measuring glass B.

2. Add **4 drops of Fe-1**, seal the glass and mix.
3. Add **1 level measuring spoonful of Fe-2**, seal the glass and shake the mixture until the powder has dissolved.
4. Open the glass after **7 min** and place it on position B in the comparator.
5. 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.
6. After use, rinse out both measuring glasses thoroughly and seal them.
7. The iron(II) ion content is ascertained by carrying out the analysis without Fe-2.

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

This technique can be used also for analyzing 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:
Copper(I) ions present in excess of 0.3 mg/L form a grey-violet complex and disrupt the iron test. Nickel ions present in excess of 0.5 mg/L lead to reduced findings. Cobalt ions and molybdate ions present in excess of 0.5 mg/L disrupt the iron test by forming a yellow complex compound. Nitrite ions present in excess of 20 mg/L disrupt the test by turning the specimen yellowish-red.

Conversion table:

mg/L Fe	mmol/m³
0.04	0.7
0.07	1.3
0.10	1.8
0.15	2.7
0.20	3.6
0.30	5.4
0.50	9.0
1.0	18.0

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

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Manufacturer: **Macherey-Nagel GMbH & CO. KG** Rev: 2025-03