# visocolor® ECO



## Iron

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

#### wemoa

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 colour chart
  - 1 plastic syringe 5 ml
  - 1 instructions for use\*

## Hazard warning:

This test does not contain any harmful substances which must be specially labelled as hazardous.

#### Instructions for use:

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

 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.
- Add 1 level measuring spoonful of Fe-2, seal the glass and shake the mixture until the powder has dissolved.
- Open the glass after 7 min and place it on position B in the comparator.
- Slide the comparator until the colours 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 iron(II) ion content is ascertained by carrying out the analysis without Fe-2.
  The reagents can also be used for the photometric evaluation with

This technique can be used also for analysing 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:

photometer PF-11.

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/m <sup>3</sup>
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
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## Storage:

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