

## Iron 1

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

### Method:

Colorimetric determination of Fe(II) and Fe(III) ions with a triazine derivate

### Measurement range:

0.04–1.0 mg/L Fe

### Contents of test kit (\*refill pack):

sufficient for 200 tests

30 mL Fe-1\*

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](http://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 **5 drops of Fe-1**, seal the glass and mix.
3. Open the glass after **3 min** and place it on position B in the comparator.
4. 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. 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.

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](http://www.mn-net.com/SDS).

### Interferences:

The following quantities of ions will not interfere:  $\leq 5$  mg/L  $\text{Co}^{2+}$ ,  $\text{Ni}^{2+}$ ,  $\text{MoO}_4^{2-}$ ;  $\leq 3$  mg/L  $\text{Cu}^{2+}$ .

### 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

### Storage:

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