

# 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:**

*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.

The reagents can also be used for the **photometric evaluation** with photometers PF-12 and PF-12<sup>Plus</sup>.

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.