

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.

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^{Plus}.

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:

The following quantities of ions will not interfere: ≤ 5 mg/L Co^{2+} , Ni^{2+} , MoO_4^{2-} ; ≤ 3 mg/L Cu^{2+} .

Conversion table:

mg/L Fe	mmol/m ³
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.