

Sulfide

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

Method:

Determination with *N,N*-dimethyl-1,4-phenylene diamine

Measurement range:

0.1–0.8 mg/L S²⁻

Contents of test kit (*refill pack):

sufficient for 90 tests

- 5 g S-1*
- 22 mL S-2*
- 30 mL S-3*
- 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:

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 **1 level measuring spoon of S-1**, seal the glass and shake briefly. Wait **1 min**.
3. Add **5 drops of S-2. Do not mix!**
4. Add **5 drops of S-3**, seal the glass and mix
5. Open the glass after **10 min** and place it on position B in the comparator.
6. Slide the comparator until the colors match in the inspection hole on top. Check the measurement reading in the recess on the comparator reed (mg/L S²⁻ \triangleq mg/L H₂S). Mid-values can be estimated.
7. After use, rinse out both measuring glasses thoroughly and seal them.

The reagents can be used for the **photometric evaluation** with photometer PF-12 / PF-12^{Plus}.

The method can be applied also for the analysis of 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:

Sulfides are determined, which are dissolved or soluble in sulfuric acid.

Sulfide concentration is tested in an acidic medium and, therefore, if the reagents are not mixed gently, some sulfide may escape as hydrogen sulfide, leading to lower test results.

The following ions will not interfere: ≤ 5 mg/L NO₂⁻, SCN⁻.

Storage:

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