

## 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 S<sup>2-</sup>

### 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:

S-1 contains sulfamic acid 50–100 %, S-2 contains sulfuric acid 51–80 %.

H314 Causes severe skin burns and eye damage.

P260, P280, P301+330+331, P303+361+353, P304+340, P305+351+338 Do not breathe vapors. Wear protective gloves/eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. For further information ask for a safety data sheet.

### 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 S<sup>2-</sup> f mg/L H<sub>2</sub>S). 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-11/PF-12.

The method can be applied also for the analysis of 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:

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 NO<sub>2</sub><sup>-</sup>, SCN<sup>-</sup>.

### Storage:

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

#### Product data and ordering information

REF	931 094 (931 294)
Type	colorimetric test kit (refill pack)
Range	0.1 · 0.2 · 0.3 · 0.4 · 0.5 · 0.6 · 0.7 · 0.8 mg/L (ppm) S <sup>2-</sup>
Sufficient for	90 determinations
Shelf life	at least 3 years
Sea water suitability	yes
Detectable with	
PF-12	yes