

# Sulfite

## Test kit for performing titrimetric tests on sulfite ions in surface water and sewage

**Method:**

Iodometric titration

**Contents of test kit:**sufficient for 60 tests at an average sulfite content of 10 mg/L  $\text{SO}_3^{2-}$ 20 mL  $\text{SO}_3$ -120 mL  $\text{SO}_3$ -230 mL  $\text{SO}_3$ -3

1 specimen jar with ringed markings

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:**

1. Pour a **5 mL water sample** into the specimen jar using the plastic syringe.
2. Add **5 drops  $\text{SO}_3$ -1**.
3. Add **5 drops of  $\text{SO}_3$ -2** and shake the jar to mix the contents.
4. Hold the dropping bottle  **$\text{SO}_3$ -3** absolutely vertical and add the reagent drop by drop while smoothly shaking the specimen jar until the colour turns from **colourless** to **blue**. Count the number of drops. **1 drop corresponds to 1 mg/L  $\text{SO}_3^{2-}$** .
5. After use, rinse out the specimen jar thoroughly with distilled water.
6. Seal the dropping bottles immediately after use. Do not touch the dropping pipettes.

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

**Interferences:**

Oxidizing and reducing substances interfere with the determination.

1 mg/L ascorbic acid  $\triangleq$  0.5 mg/L  $\text{SO}_3^{2-}$ .

**Note:**

For the determination of dithionite contact MACHEREY-NAGEL for special working instructions.

**Conversion table:**

drops	mg/L $\text{SO}_3^{2-}$	mg/L $\text{Na}_2\text{SO}_3$
1	1	2
2	2	3
3	3	5
4	4	6
5	5	8
6	6	9
7	7	11
8	8	13
9	9	14
10	10	16

**Storage:**

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