

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 SO_3^{2-} 20 mL SO_3 -120 mL SO_3 -230 mL SO_3 -3

1 specimen jar with ringed markings

1 plastic syringe 5 mL

1 instructions for use

Hazard warning:Reagent SO_3 -1 contains sulfuric acid 5–15 %.

For further information ask for a safety data sheet.

Instructions for use:

1. Pour a **5 mL water sample** into the specimen jar using the plastic syringe.
2. Add **5 drops SO_3 -1**.
3. Add **5 drops of SO_3 -2** and shake the jar to mix the contents.
4. Hold the dropping bottle **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 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:

The used analysis specimens can be flushed down the drain with tap water and channelled off to the local sewage treatment works.

Interferences:

Oxidizing and reducing substances interfere with the determination.

1 mg/L ascorbic acid f 0.5 mg/L SO_3^{2-} .**Note:**

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

Conversion table:

drops	mg/L SO_3^{2-}	mg/L Na_2SO_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.

Product data and ordering information

REF	931 095
Type	titration test kit
Range	1 drop = 1 mg/L (ppm) SO_3^{2-}
Sufficient for	60 tests with an average sulphite concentration of 10 mg/L (ppm) SO_3^{2-}
Shelf life	at least 1 year
Sea water suitability	yes
Detectable with PF-12	no