

# Nitrite

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

## Method:

Sulfanilamide is diazotized by nitrite in acidic solution. The diazonium salt is coupled with a naphthylamine to form a reddish-violet azo dye.

## Measurement range:

0.02–0.5 mg/L NO<sub>2</sub><sup>-</sup>

## Contents of test kit (\*refill pack):

sufficient for 120 tests

30 mL NO<sub>2</sub>-1\*

5 g NO<sub>2</sub>-2\*

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

## Instructions for use:

### a) colorimetric determination with color chart

*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 **4 drops of NO<sub>2</sub>-1**, seal the glass and mix.
3. Add **1 level measuring spoonful of NO<sub>2</sub>-2**, seal the glass and shake the mixture until the powder has dissolved.
4. Open the glass after **10 min** and place it on position B in the comparator.
5. 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.
6. After use, rinse out both measuring glasses thoroughly and seal them.

### b) photometric determination

The reagents are also suitable for **photometric evaluation**. Please refer to the separate instructions for photometric performance.

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

## Interferences:

Chromium(VI) and iron(III) ions present in excess of 3 mg/L simulate nitrite values which are too high. Chlorine interferes even in minute concentrations.

## Conversion table:

mg/L NO <sub>2</sub> <sup>-</sup>	mg/L NO <sub>2</sub> -N (nitrite nitrogen)
0.02	0.006
0.03	0.009
0.05	0.015
0.07	0.021
0.1	0.03
0.2	0.06
0.3	0.09
0.5	0.15

## Storage:

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