visocolor® ECO

en

Nitrite

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

Method:

Sulphanilamide 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 NO₂

Contents of test kit (*refill pack):

sufficient for 120 tests

30 ml NO₂-1* 5 g NO₂-2*

1 measuring spoon 70 mm*

screw-plug measuring glassesslide comparator

1 colour chart

plastic syringe 5 ml

1 instructions for use*

Hazard warning:

This test does not contain any harmful substances which must be specially labelled as hazardous.

Instructions for use:

also refer to the pictogram on the back of the colour chart

 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 NO2-1, seal the glass and mix.
- 3. Add 1 level measuring spoonful of NO_2 -2, seal the glass and shake the mixture until the powder has dissolved.
- Open the glass after 10 min and place it on position B in the comparator.
- Slide the comparator until the colours 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.

The reagents can be used for the **photometric evaluation** with photometer PF-11.

This technique can be used also for analysing 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:

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 ₂ -	mg/l NO ₂ -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.