# visocolor® ECO

## Nickel

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

#### Method:

In the presence of an oxidizing agent nickel ions react with dimethylglyoxime in an alkaline solution to form a reddish-brown complex.

#### Measurement range:

0.1-1.5 mg/L Ni<sup>24</sup>

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

sufficient for 150 tests

10 g Ni-1\* 2 x 20 mL Ni-2\*

- measuring spoon 70 mm\*
  - 2 screw-plug measuring glasses
  - slide comparator
- 1 color chart
- 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.

#### Instructions for use:

#### a) colorimetric determination with color chart

also refer to the pictogram on the back of the color 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 1 measuring spoon of Ni-1, seal the glass and dissolve by swirling.
- 3. Add 5 drops of Ni-2, seal the glass and mix.
- 4. Open the glass after 1 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. ATTENTION: The reaction time for the photometric determination is 3 min-

utes The method can be applied also for the analysis of sea water after dilution

(1+9).

#### 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.

### Interferences:

Complexed nickel is not detected by the measurement. It must be decomposed prior to determination.

The following ions do not interfere:  $\leq 1 \text{ mg/L Mn}^{2+}$ 

 $\leq$  5 mg/L Co<sup>2+</sup>, Cu<sup>2+</sup>, Fe<sup>3+</sup>

≤ 10 mg/L Cr<sup>3+</sup>, Zn<sup>2+</sup>

#### Storage:

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

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