REF 918142

Test 1-42

NANOCOLOR® Fluoride

### Method:

Photometric determination of fluoride with 1,8-dihydroxy-2-(4-sulfophenylazo)naphthalene-3,6-disulfonic acid (SPADNS)

# Contents of reagent set:

8 x 75 mL Fluoride R1

### 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.

### **Preliminary tests:**

If the order of magnitude of the concentration in a sample is not known, a preliminary test with Fluoride test paper 2–100 mg/L F<sup>-</sup> (REF 90734) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

#### Interferences:

Only repeatedly and thoroughly rinsed glassware should be used. Sea water and waste water require a distillation.

The following ions will not interfere: < 1000 mg/L Cu²+; < 500 mg/L Ca²+, Ni²+, Zn²+; < 200 mg/L Fe³+; < 100 mg/L SO<sub>4</sub>²-; < 50 mg/L Cr(III); < 20 mg/L Si(IV); < 10 mg/L Cr(VI); < 5 mg/L PO<sub>4</sub>³-, Cl₂; < 0,1 mg/L Al³+.

#### Procedure:

Requisite accessoires: volumetric flasks 25 mL, piston pipette with tips

Pour into two separate volumetric flasks:

Test sample	Blank value
20 mL test sample (the pH value of the sample	20 mL dist. water
must be between pH 7 and 13)	
3.0 mL R1, mix	3.0 mL R1, mix

Fill up sample and blank value to 25 mL mark with distilled water and mix again. After 1 min pour into cuvettes and measure.

#### Measurement:

For NANOCOLOR® photometers see manual, test 1-42.

#### Photometers of other manufacturers:

Verify calibration curve for each type of instrument by measuring standard solutions.

### Analytical quality control:

NANOCONTROL Multistandard Metals 1 (REF 925015)

# Analysis with reduced sample volume:

In order to increase the number of determinations, you can work with volumetric flasks of 10 mL: 8 mL test sample + 1.2 mL R1.

### Disposal:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

#### Reference:

Standard methods for the examination of water and wastewater (4500-F<sup>-</sup>D)

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