

REF 918 85

Test 1-85

05.15

NANOCOLOR® Ozone

en

**Method:**

Photometric determination with indigo trisulfonate

	50 mm	10 mm	Test tube
Range (mg/L O <sub>3</sub> ):	0.01–1.00	0.10–1.50	0.05–1.50
Wavelength (HW = 5–12 nm):	600 nm		
Reaction time:	0 min		
Reaction temperature:	20–25 °C		

**Contents of reagent set:**

2 x NANOFIX Ozone R0 (for preparation of reagent R1 see preparation)  
 2 x 100 mL Ozone R1  
 2 x 100 mL Ozone R2

**Hazard warning:**

Reagent R2 contains malonic acid 20–65 %.  
 For further information ask for a safety data sheet.

**Interferences:**

Chlorine dioxide and permanganate cause interferences. The following quantities of ions will not interfere: Cl<sub>2</sub> < 3 mg/L, H<sub>2</sub>O<sub>2</sub>, ClO<sub>3</sub><sup>-</sup> and ClO<sub>4</sub><sup>-</sup>.

The method can also be applied for the analysis of sea water.

**Notes:**

- For a good reproducibility we recommend uninterrupted speedy work during sampling. To avoid the loss of ozone, use glass instead of plastic.
- The reagents can be used also for the evaluation with photometers PF-12 / PF-12<sup>Plus</sup> / PF-3.

**Procedure:**

Requisite accessories: volumetric flasks 25 mL, piston pipette with tips, glass pipette, reaction tubes 16 mm OD (REF 916 80)

**Preparation**

Before first use, add 1 NANOFIX (reagent R0) to one of the two bottles of R1 and shake for 30 s. The resulting solution can then be stored for 4 months. Prepare the second bottle only after consumption or expiry of this solution.

Pour into two separate volumetric flasks:

**10 mm / Test tube**

Test sample	Blank value
1 mL R1 (see preparation)	1 mL R1
1 mL R2, mix	1 mL R2, mix
20 mL test sample (the pH value of the sample must be between pH 1 and 12), mix immediately	20 mL distilled water

**50 mm**

Test sample	Blank value
0.5 mL R1 (see preparation)	0.5 mL R1
1 mL R2, mix	1 mL R2, mix
20 mL test sample (the pH value of the sample must be between pH 1 and 12), mix immediately	20 mL distilled water

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

**Measurement:**

For NANOCOLOR® photometers see manual, test 1-85.

**Photometers of other manufacturers:**

Verify factor for each type of instrument by measuring standard solutions.

**Storage:**

Store test kit in a cool (< 8 °C) and dry place.

**Disposal:**

The contents of cuvettes and flasks can be washed into drain with plenty of water.

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