

REF 91885

en

# Test 1-85 12.18

## NANOCOLOR® Ozone

**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 R0 contains potassium indigotrisulfonate 20–100 %. Reagent R2 contains malonic acid 10–20 %.

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>.**Procedure:**

Requisite accessories: volumetric flasks 25 mL, piston pipette with tips, glass pipette, reaction tubes 16 mm OD (REF 91680)

**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**

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

**Blank value**

1 mL R1  
 1 mL R2, mix  
 20 mL distilled water

**50 mm****Test sample**

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

**Blank value**

0.5 mL R1  
 1 mL R2, mix  
 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.

For PF-12<sup>Plus</sup>/PF-12 see manual, test 5-85.**Photometers of other manufacturers:**

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

**Storage:**

Store test kit in a cool (&lt; 8 °C) and dry place.

**Disposal:**

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