

REF 91888

Test 1-88

04.22

**NANOCOLOR® Sulfide****Method:**

Photometric determination as methylene blue

Cuvette rectangular:	50 mm	20 mm	10 mm
Range (mg/L S <sup>2-</sup> ):	0.01 – 0.60	0.05 – 1.50	0.1 – 3.0
Wavelength (HW = 5 – 12 nm):	620 / 660 nm		
Reaction time:	5 min (300 s)		
Reaction temperature:	20 – 25 °C		

**Contents of reagent set:**

10 g Sulfide R1  
 100 mL Sulfide R2  
 100 mL Sulfide R3  
 1 measuring spoon 70 mm

**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](http://www.mn-net.com/SDS).

**Interferences:**

Sulfide concentration is tested in an acidic medium and, therefore, if the reagents are not mixed gently, some sulfide may escape as hydrogensulfide, leading to lower test results.

The following quantities of ions will not interfere:

< 10 mg/L SCN<sup>-</sup>; SO<sub>3</sub><sup>2-</sup>; < 100 mg/L NO<sub>2</sub><sup>-</sup>

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

**Procedure:**

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

Pour into two separate volumetric flasks 25 mL:

Test sample	Blank value
20 mL test sample (the pH value of the sample must be between pH 7 and 10)	20 mL test sample (the pH value of the sample must be between pH 7 and 10)
1 spoon R1, shake gently, wait 1 min Hold volumetric flask at an angle and pour down the inner side	–
1 mL R2, shake briefly	–
1 mL R3	–

Fill up sample and blank value to 25 mL mark with distilled water and mix again. After 5 min pour into cuvettes and measure.

**Measurement:**

For MACHEREY-NAGEL photometers see manual, test 1-88.

**Measurement when samples are colored or turbid:**

For all MACHEREY-NAGEL photometers see manual, use key for correction value.

**Photometers of other manufacturers:**

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

**Decreasing volume of analytical preparation:**

In order to increase the number of determinations, you can work with volumetric flasks of 10 mL: 8 mL test sample + ½ microspoon R1 + 0.4 mL R2 + 0.4 mL R3, semi-micro cuvette (REF 91950).

**Disposal:**

Information regarding disposal can be found in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

CTL SCIENTIFIC SUPPLY CORP. 1016-3 Grand Boulevard, Deer Park, NY 11729

Tel: 631-242-4249

Web: [www.ctlscientific.com](http://www.ctlscientific.com)

Manufacturer: Macherey-Nagel GmbH & Co. KG

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