

REF 985091

en

Test 0-91

01.19

**NANOCOLOR<sup>®</sup> Thiocyanate 50**

**Method:**

Photometric determination as iron(III) thiocyanate

Range :	0.5–50.0 mg/L SCN <sup>-</sup>
Wavelength (HW = 5–12 nm):	470 nm
Reaction time:	0 min
Reaction temperature:	20–25 °C

**Contents of reagent set:**

20 test tubes Thiocyanate 50

1 test tube with blank value "NULL"

**Hazard warning:**

Test tubes contain Hydrochloric acid 10–25 %.

For further information ask for a safety data sheet.

**Interferences:**

Nitrite, fluoride, anions of organic acids, phosphate, arsenate and borate interfere due to formation of complexes.

The method can also be applied for the analysis of sea water after dilution (1+1).

**Procedure:**

Requisite accessories: piston pipette with tips

Open test tube, add

4.0 mL test sample (the pH value of the sample must be between pH 7 and 13), close and mix.

Clean outside of test tube and measure immediately.

**Note:**

*This method can also be used for detecting a thiocyanate interference in the cyanide test, mg/L SCN<sup>-</sup> roughly corresponds to x mg/L CN<sup>-</sup>:*

mg/L SCN <sup>-</sup>	mg/L CN <sup>-</sup> (Test 0-31)
0.1	0.05
0.5	0.13
1.0	0.23
1.5	0.34
2.0	0.43

**Measurement:**

For MACHEREY-NAGEL photometers see manual, test 0-91.

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

For all NANOCOLOR<sup>®</sup> photometers see manual, use key for correction value.

**Photometers of other manufacturers:**

For other photometers check whether measurement of round glass tubes is possible. Verify factor for each type of instrument by measuring standard solutions.