REF 985 091

en

Test 0-91 05.15
NANOCOLOR® Thiocyanate 50

Method:
Photometric determination as iron(III) thiocyanate

Range :	**1.0–50.0 mg/L SCN^-**
Factor:	**039.5**
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^- roughly corresponds to x mg/L CN^-:

mg/L SCN^-	mg/L CN^- (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 *NANOCOLOR*® photometers and PF-12 see manual, test 0-91.

Measurement when samples are colored or turbid:
For all *NANOCOLOR*® 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.

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