

REF 985 041

en

Test 0-41

08.16

NANOCOLOR® Formaldehyde 8**Method:**

In a solution acidified with sulfuric acid, formaldehyde reacts with chromotropic acid to form a violet dye.

Range:	0.1–8.0 mg/L HCHO
Wavelength (HW = 5–12 nm):	585 nm
Reaction time:	5 min
Reaction temperature:	20–25 °C

Contents of reagent set:

- 20 test tubes Formaldehyde 8
- 1 bottle with 1 g Formaldehyde 8 R2
- 1 measuring spoon 70 mm
- 1 test tube with blank value "NULL"

Hazard warning:

Test tubes contain sulfuric acid 80–98 %, blank value "NULL" contains sulfuric acid 51–80 %.

H314 Causes severe skin burns and eye damage.

P260, P280, P301+330+331, P303+361+353, P304+340, P305+351+338, P501 Do not breathe vapors. Wear protective gloves / eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents / container to regulated waste treatment. When shaking test tubes use safety bottle (REF 916 37). For further information ask for a safety data sheet.

Preliminary tests:

If the order of magnitude of the concentration in a sample is not known, a preliminary test with QUANTOFIX® Formaldehyde (10–200 mg/L HCHO, REF 913 28) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

Interferences:

The following ions will not interfere: < 10 mg/L Pb²⁺, Fe³⁺, NO₃⁻, S²⁻; < 1 mg/L NO₂⁻; < 0.5 mg/L acetaldehyde.

The method cannot be applied for the analysis of sea water.

Procedure:

Requisite accessories: piston pipette with tips

Open test tube, hold it diagonally and slowly add
2.0 mL test sample (*the pH value of the sample must be between pH 0 and 13*) to contents (*without mixing*) so that two separate layers are formed.

Add

1 level measuring spoonful of R2, screw cap securely on to test tube, hold tube by the cap, place tube into the safety bottle and shake gently, until the powder is completely dissolved (*Caution! Test tube becomes hot!*).

Leave hot test tube to stand for 5 min, clean outside and measure.

Measurement:

For NANOCOLOR® photometers and PF-12 see manual, test 0-41.

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.