

REF 918911

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NANOCOLOR® Chloride complexing agent

for tests **0-11, 0-22, 0-23, 0-26, 0-27, 0-29, 0-30, 0-33, 0-36, 0-38**

Method:

Additional reagent for COD tests when chloride contents are between 1500 and 7000 mg/L Cl⁻

Contents:

100 mL Chloride complexing agent

Hazard warning:

The reagent contains mercury(II) sulfate 3.7–15 % and sulfuric acid 5–15 %.

H301, H311 Toxic if swallowed. Toxic in contact with skin.

P280sh, P301+310, P302+352, P312, P405 Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. Store locked up. For further information ask for a safety data sheet.

Preliminary tests:

If the order of magnitude of the concentration of chloride in a sample is not known, a preliminary test with QUANTOFIX® Chloride (500–3000 mg/L Cl⁻, REF 91321) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

Procedure:

Requisite accessories: NANOCOLOR® heating block, piston pipette with tips

Note:

For samples with high chloride concentrations it is important to shake the test tube before the water sample is added in order to suspend the deposit.

Open test tube, add

1.0 mL (for test 0-11, 0-23: 0.5 mL) chloride complexing agent and mix.

Hold test tube **diagonally** and **slowly** add

1.0 mL (for test 0-11, 0-23: 0.5 mL) test sample to contents **without** mixing so that two separate layers are formed; screw cap securely on to test tube, hold tube by the cap, place tube into the safety bottle and shake (*Caution, test tube becomes hot/Contents become turbid until heated*), then place tube into the heating block.

After 2 h remove test tube from heating block, after about 10 min (*test tube is still warm*) shake once and allow to cool to room temperature.

Clean outside of test tube and measure.

Measurement:

For MACHEREY-NAGEL photometers see manual.

Consider the dilution: multiply displayed value by 2!

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.