AOX 3

Adsorbable organically bound halogens

sensitive range / high COD contents

Test 0-07$_2$

Tube test

Method: AOX determination is carried out in 3 steps:
1. Solid phase extraction with ***NANOSORB*** for AOX
2. Decomposition of the concentrated adsorber medium
3. Determination as chloride with reagent set *NANOCOLOR*® AOX 3

		Method
Ranges:	0.1–3.0 mg/L AOX	**0071**
	0.01–0.30 mg/L AOX	**0072**

NANOCOLOR® reagent set: AOX 3 (REF 985 007) and Supplement kit for AOX (REF 918 072)

Wavelength: **470** nm

Interferences: COD > 1000 mg/L interferes if the sample volume is 100 mL.
COD > 100 mg/L interferes if the sample volume is 1 litre.
When using 200 mL of rinsing solution, this method is also suitable for analysing sea water.

Procedure: Requisite accessories: starter kit for AOX (REF 916 111), piston pipette with tips, CHROMAFIL® membrane filters (REF 916 50) or folded filters MN 619 de ¼ (REF 539 011), optional: pump set for AOX (REF 916 115)

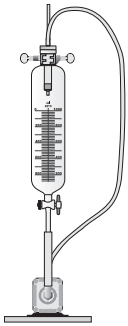
1a. Manual extraction

Connect a ***NANOSORB*** cartridge to the syringe 50 mL with the aid of an adaptor. Pour
100 mL test sample *(the pH value of the sample must be between pH 3 and 5)* into a glass beaker 150 mL, dip the ***NANOSORB*** cartridge into the test sample and lift the syringe plunger up and down 20 times to adsorb the organically bound halogens from the sample (accessories: stand with clamp and boss).

After extraction disconnect the ***NANOSORB*** cartridge from the adaptor and syringe. Rinse the ***NANOSORB*** cartridge slowly in 4–5 portions with a total of
100 mL AOX 3 R1 rinsing solution in order to remove inorganic chloride. Connect the syringe to the cartridge once more and blow out any excess of water from the ***NANOSORB*** adsorber with 2 strong draughts of air.

1b. Extraction using the pump set

Close valve of the flask. Pour
100 mL test sample *(the pH value of the sample must be between pH 3 and 5)* or for the sensitive range
1000 mL test sample *(the pH value of the sample must be between pH 3 and 5)* into the flask and connect a ***NANOSORB*** cartridge to the flask using the adaptor. Open valve and start pumping for 20 min to adsorb the organically bound halogens from the sample.



After extraction disconnect the ***NANOSORB*** cartridge from the adaptor and flask. Rinse the ***NANOSORB*** cartridge slowly in 4–5 portions with a total of
100 mL AOX 3 R1 rinsing solution in order to remove inorganic chloride. Connect the syringe to the cartridge using the adaptor and blow out any excess of water from the ***NANOSORB*** adsorber with 2 strong draughts of air.