

REF 985 084

en

Test 0-84

12.16

NANOCOLOR[®] Residual Hardness 1

Method:

Calcium and magnesium ions react in alkaline solution with phthalein purple to form a violet dye.

| | | |
|----------------------------|--------------|--------------------|
| Range: | 0.03–1.25 °e | 0.004–0.180 mmol/L |
| Wavelength (HW = 5–12 nm): | 540 nm | |
| Reaction time: | 1 min | |
| Reaction temperature: | 20–25 °C | |

Contents of reagent set:

20 test tubes Residual Hardness 1

1 tube NANOFIX Residual Hardness 1 R2

Hazard warning:

This test does not contain any harmful substances which must be specially labelled as hazardous.

Interferences:

Copper(II)ions > 5 mg/L interfere with the determination.

The method can not be applied for the analysis of sea water.

Procedure:

Requisite accessories: piston pipette with tips

Open test tube, add

1 NANOFIX R2, close and shake well.

(Close NANOFIX tube immediately after use.)

Open test tube again after **2 min**, add

5.0 mL test sample (*the pH value of the sample must be between pH 4 and 9*), close and mix.

Clean outside of test tube and measure after 1 min.

Measurement:

For NANOCOLOR[®] photometers and PF-11 / PF-12 see manual, test 0-84.

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 calibration curve for each type of instrument by measuring standard solutions.