

REF 985681

Robot

en

Test 6-81

03.23

NANOCOLOR® total Phosphate 5**Method:**

Photometric determination as molybdenum blue after acidic hydrolyzes and oxidation at 100–120 °C

Range:	0.20–5.00 mg/L P (PO ₄ -P)	0.5–15.0 mg/L PO ₄ ³⁻
Wavelength	690 nm	
Decomposition:	30 min at 120 °C	

Contents of reagent set:

20 test tubes total Phosphate 5

1 bottle with 110 mL total Phosphate 5 Reagent A

1 glass with 2 g total Phosphate 5 Reagent B1

1 test tube with 5 mL total Phosphate 5 Reagent B2

1 test tube with 6 mL total Phosphate 5 Reagent C

Hazard warning:

Test tubes contain 20 × 35 mg sodium peroxodisulfate 80–99 %, reagent A contains sulfuric acid 5–15 %, reagent C contains sulfuric acid 5–15 %.

H317, H334 May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261 sh, P280 sh, P342+311 Avoid breathing dust/vapors. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. For further information ask for a safety data sheet.

Preliminary tests:

In the order of magnitude of the concentration in a sample is not known, a preliminary test with QUANTOFIX® Phosphate (3–100 mg/L PO₄³⁻, REF 91320) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

Interferences:

Precipitations after hydrolysis can be removed by membrane filtration prior to the determination.

The following quantities of ions will not interfere:

≤ 5 mg/L As, NO₂⁻, S²⁻ (only ortho-P); ≤ 50 mg/L Fe, Cu, Cr; ≤ 500 mg/L Si.

Analytical quality control:

NANOCONTROL Multistandard Sewage outflow 1 (REF 925011) or Sewage outflow 2 (REF 925010)