MR $0.05 - 1.50 \text{ mg/L PO}_4 - P / 0.15 - 4.50 \text{ mg/L PO}_4$

DOC312.53.94346

Principle

Phosphate ions react with molybdate and antimony ions in an acidic solution to from an antimonyl phosphomolybdate complex, which is reduced by ascorbic acid to phosphormolybdenum blue

Range of Application

Waste water, drinking water, boiler water, surface water, process analysis

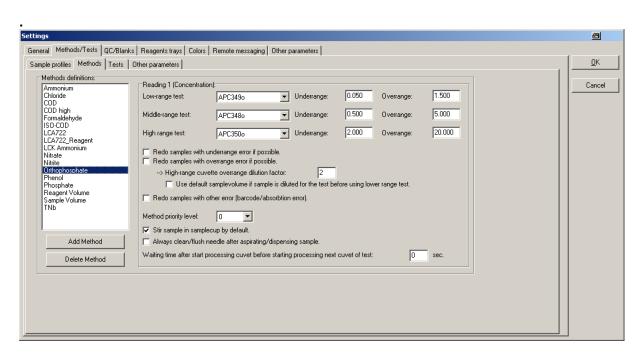
Interferences 5000 mg/l: SO₂²⁻ 50 mg/l: Co²⁺, Fe²⁺, 2000 mg/l: Cl⁻ Fe²⁻, Zn²⁻, Cu²⁻, Cu²⁻, Ni²⁻, 1000 mg/l: K¹, Na⁺ l⁻, NO₂⁻, Cd²⁻, NH₄⁻, 500 mg/l: NO₃⁻ Mn²⁺, Al²⁻, OO₃²⁻, SiO₂ 250 mg/l: Ca²⁺ 5 mg/l: Sn⁴⁻, Hg²⁺ 100 mg/l: Mg²⁻ 2.5 mg/l: Ag⁺, Pb²⁻ 1 mg/l: Cr³⁺

The ions listed in T1 have been individually checked up to the given concentrations and do not cause interference. We have not determined cumulative effects and the influence of other ions.

The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).

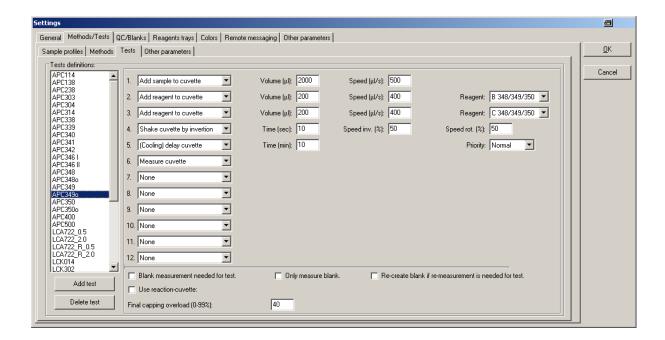
Sample Volume	2,0 mL
Reagent B Volume	0,2 mL
Reagent C Volume	0,2 mL
Reagent B Filling	60 mL
Reagent C Filling	30 mL
Reagent D Filling	12 g
Temperature Sample/sample cuvette	15 – 25°C
pH sample	2 - 10

0.5 mg/l: Cr⁶⁺



Method Library:

APC349 ortho is pre-programmed in the method library. Please check under Settings/Software/Application/Methods **Orthophosphate** and Tests **APC3490**



Note

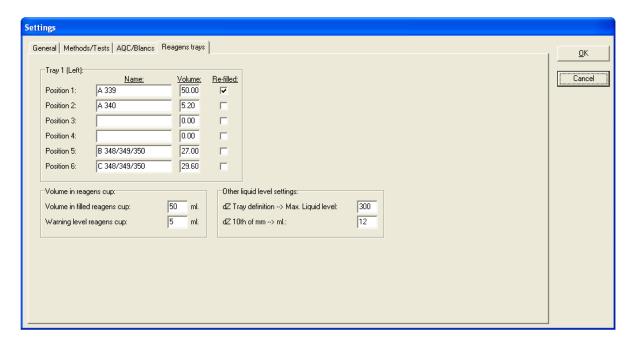
The APC349 ortho need a preparation of Reagent C:

Use the delivered spoon and take 2 spoonful of Reagent D into Solution C. Invert it for approximately 30 seconds (until it's solved). This solution is stable for 5 days at room temperature.

Run the APC349 ortho Phosphorous method

Create a Run like described in the QUICK GUIDE

- Place the APC349 cuvettes according to the settings in the Software in the cuvette racks.
- Place the samples according to the settings in the Software in the sample racks
- Place the Reagent B and C according to the settings in the Reagent trays



- Check if fresh and enough pipette tips are available
- Check if enough Rinsing/Dilution water is available
- Initialize the AP 3900 multi and the Dispenser