APC348
Phosphorus ortho
MR 0,5 – 5,0 mg/L PO_4-P / 1,5 – 15,0 mg/L PO_4

DOC312.53.94344

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

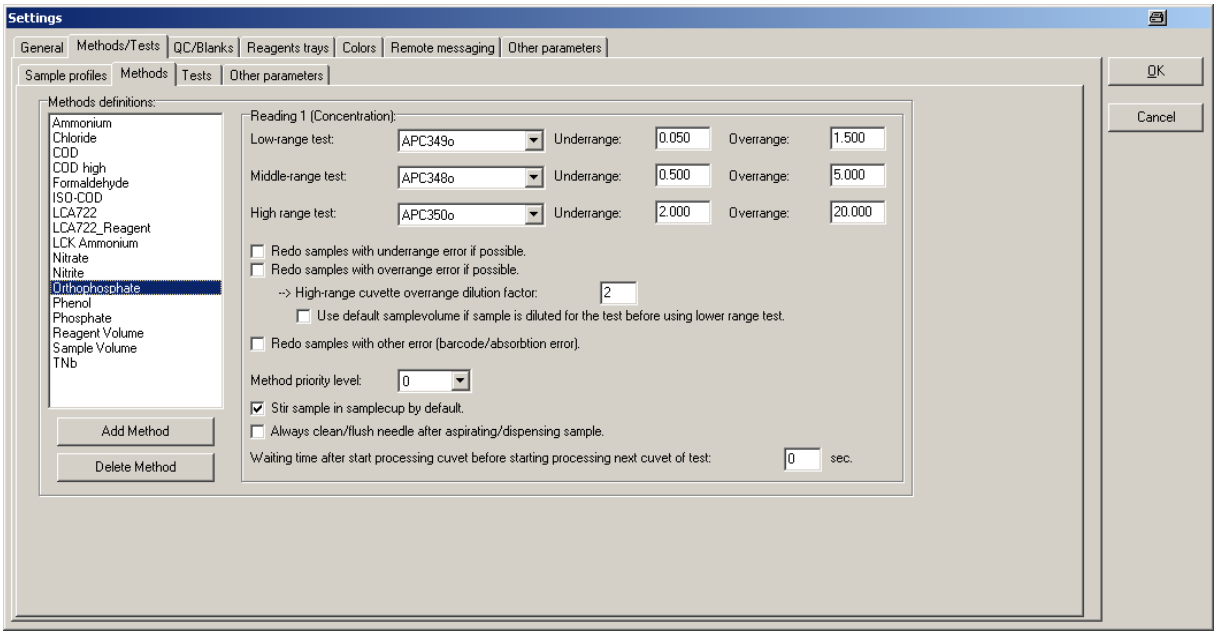
Interferences

T1

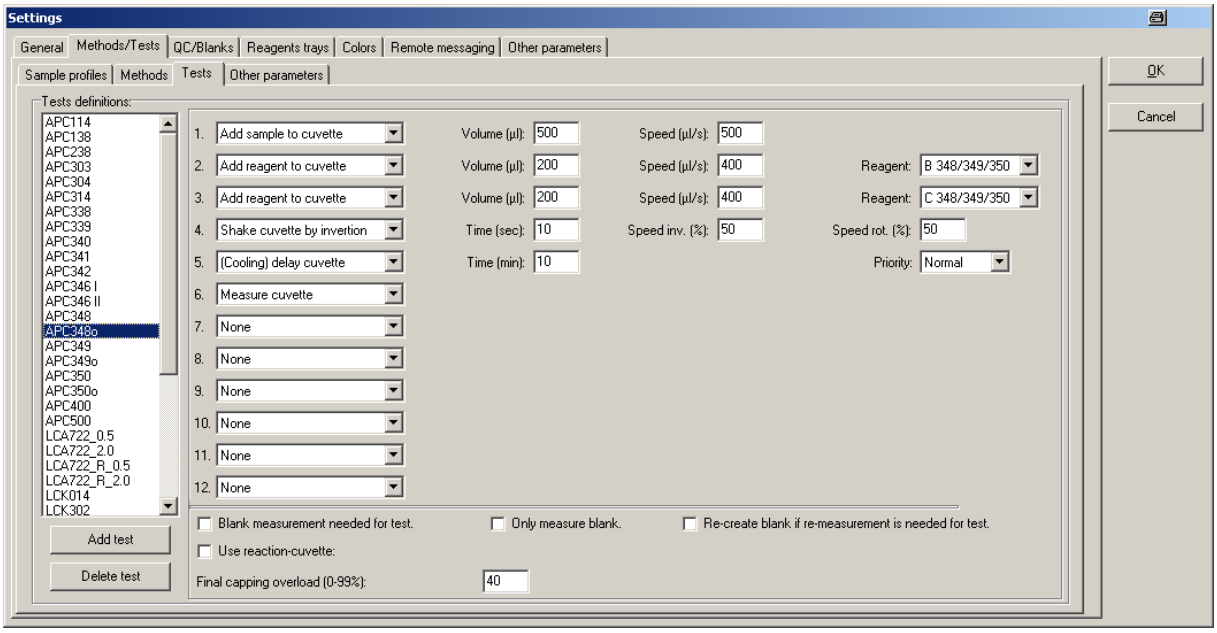
20 g/l: SO_4^{2-}	100 mg/l: J^-
10 g/l: Cl^-	50 mg/l: SiO_2
4 g/l: K^+, Na^+	40 mg/l: Hg^{2+}
1 g/l: Ca^{2+}	20 mg/l: Pb^{2+}
500 mg/l: NO_3^-	10 mg/l: Ag^+, Sn^{4+}
400 mg/l: Mg^{2+}	5 mg/l: Cr^{3+}
200 mg/l: Co^{2+}, Fe^{2+}, Fe^{3+}, Zn^{2+}, Cu^{2+}, Ni^{2+}, NO_2^-, Cd^{2+}, NH_4^+, Mn^{2+}, Al^{3+}, CO_3^{2-}	1 mg/l: Cr^{6+}

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	**0,5 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**



Method Library:
APC348 ortho is pre-programmed in the method library. Please check under Settings/Software/Application/Methods **Orthophosphate** and Tests **APC348o**.

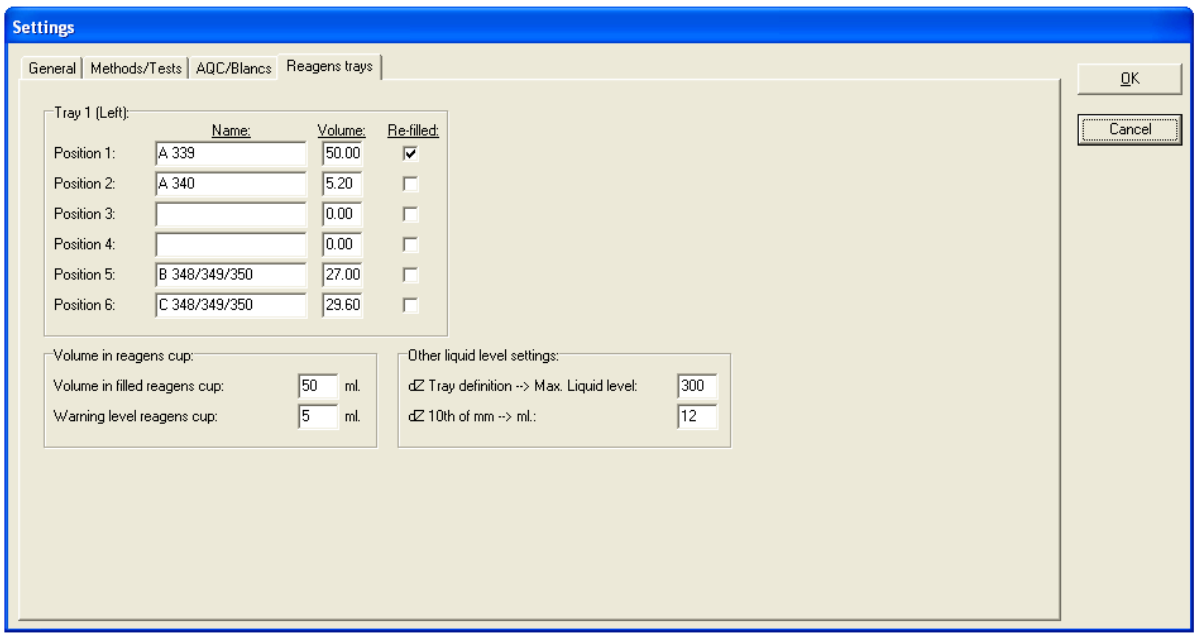


Note
The APC348 ortho need a preparation of Reagent C:
Use the delivered spoon and take 2 spoonful of Reagent D into Solution C. Invert it for approximately 30 seconds (until it`s solved). This solution is stable for 5 days at room temperature.

Run the APC348 ortho Phosphorous method

Create a Run like described in the QUICK GUIDE

- Place the APC348 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

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