APC340
Nitrate
MR 5 – 35 mg/L NO_3-N / 22 – 155 mg/L NO_3

DOC312.53.94341

Principle
Nitrate ions in solution containing sulphuric and phosphoric acids react with 2.6-dimethylphenol to form 4-nitro-2.6-dimethylphenol.

Range of Application
Waste water (beware of interferences!), drinking water, raw water, surface water, soils, substrates, nutrient solutions

Interferences

T1

2000 mg/l:	K^+
1500 mg/l:	Na^+
1000 mg/l:	Cl^-
500 mg/l:	CZV / COD *)
250 mg/l:	Ca^{2+}
100 mg/l:	Ag^+
50 mg/l:	Pb^{2+}, Zn^{2+}, Ni^{2+}, Fe^{3+}, Cd^{2+}, Cu^{2+}
20 mg/l:	Fe^{2+}
10 mg/l:	Co^{2+}
5 mg/l:	Cr^{6+}
2 mg/l:	NO_2^-

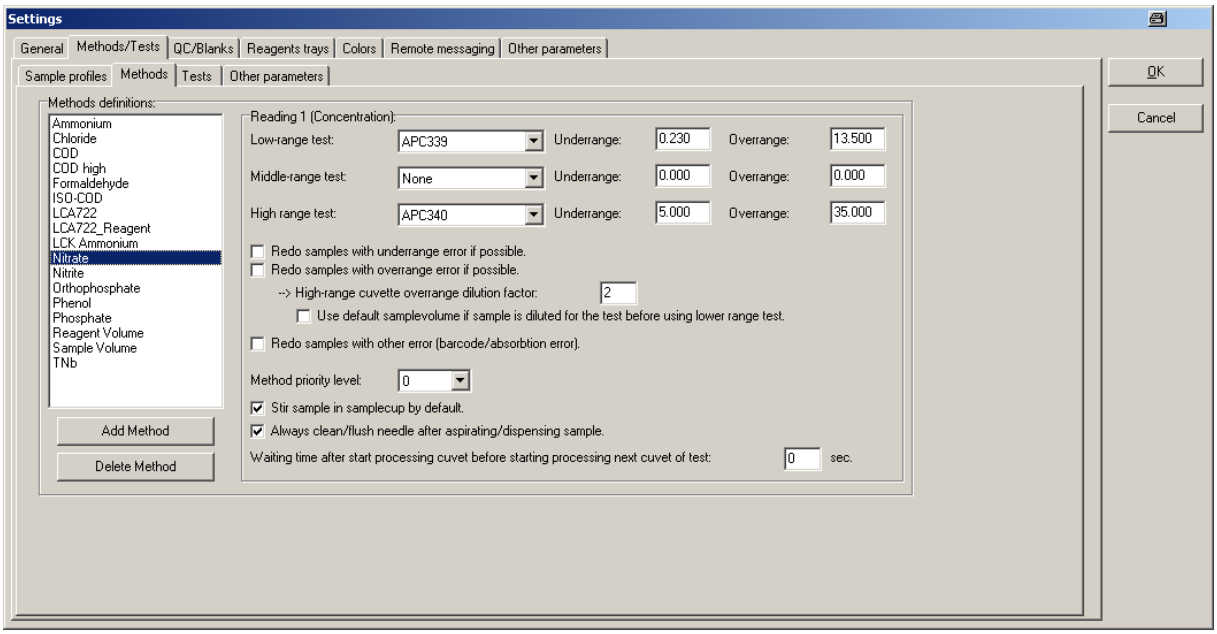
*) (Kaliumwaterstofftalaat)
(Potassium hydrogen phtalate)

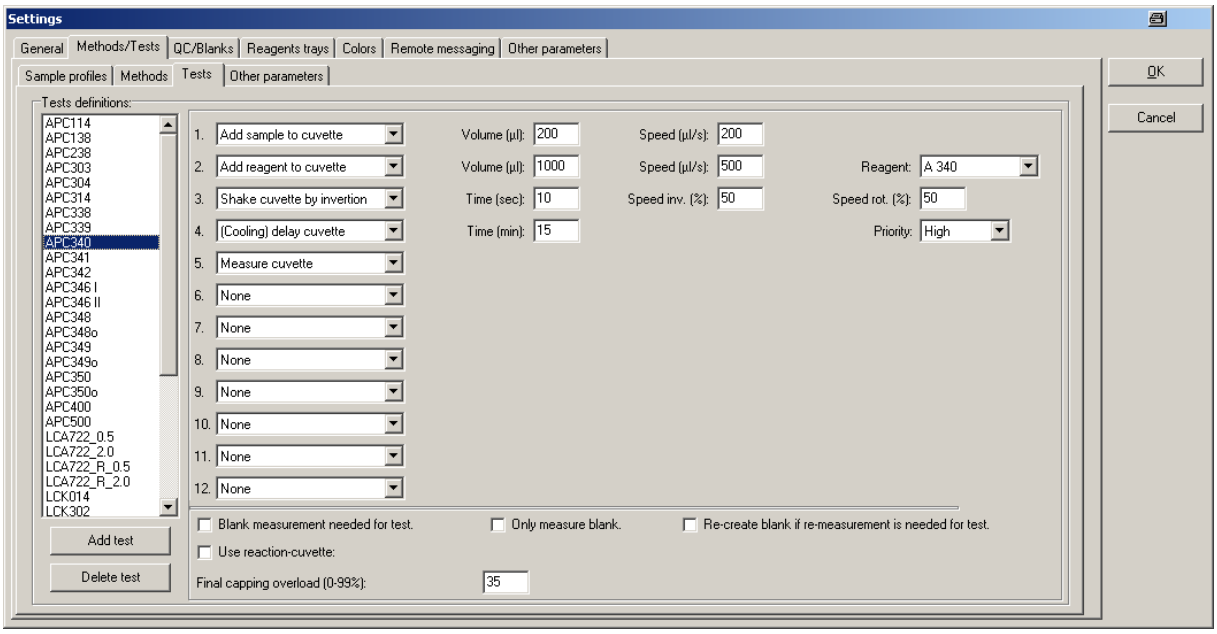
The ions listed in T1 have been individually checked up to the given concentrations and do not cause interference. We have not determined cumulative effects and the influence of other ions.

High loads of oxidizable organic substances (COD) cause the reagent to change colour and give high-bias results. The test can thus only be used for waste water analyses if the COD is less than 500 mg/l. The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).

Sample Volume	**0,2 mL**
Reagent Volume	**1,0 mL**
Reagent Filling	**120 mL (2* 60 mL)**
Temperature Sample/sample cuvette	**20 – 24°C**
pH sample	**3 - 10**

Method Library:
APC340 is pre-programmed in the method library. Please check under Settings/Software/Application/Methods **Nitrate** and Tests **APC340.**

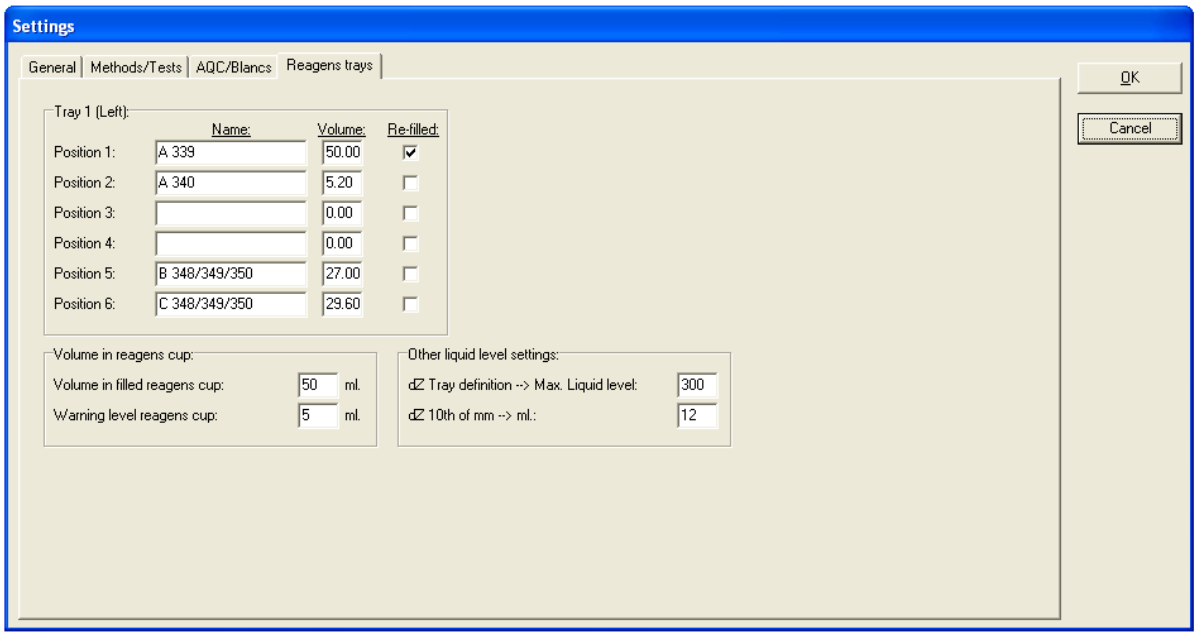




Run the APC340 Nitrate method

Create a Run like described in the QUICK GUIDE

- Place the APC340 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 A 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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