APC 138 Total Nitrogen TN_b LATON

DOC312.53.94067

1–16 mg/L Total Nitrogen, TN_b APC 138

Scope and application: For water and wastewater.

Test preparation

Test storage

Storage temperature: 15–25 °C (59–77 °F)

pH/Temperature

The pH of the water sample must be between pH 3–12.

The temperature of the water sample and reagents must be between 15–25 °C (59–77 °F).

Before starting

Review safety information and expiration date on the package.
Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.
Dispose of reacted solutions according to local, state and federal regulations. Refer to the Safety Data Sheets for disposal information for unused reagents. Refer to the environmental, health and safety staff for your facility and/or local regulatory agencies for further disposal information.

Interferences

A slight pink color may develop during the reaction. This color will not interfere with the analysis.

The ions listed in the table have been individually checked against the given concentrations and do not cause interference. The cumulative effects and the influence of other ions have not been determined.

Low-bias results are expected if the samples contain large amounts of reducing agents.

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

Interference level	Interfering substance
800 mg/L	Cl^-
400 mg/L	COD

Summary of method

Inorganically and organically bonded nitrogen is oxidized to nitrate by digestion with peroxo-disulphate. The nitrate ions react with 2.6-dimethylphenol in a solution of sulphuric and phosphoric acid to form a nitrophenol.

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