

1.19253.0001

Spectroquant® Cyanuric Acid Test

1. Method

Cyanuric acid reacts with a triazine derivative to form a slightly soluble precipitate. The resulting turbidity is measured in the photometer (turbidimetric method).

2. Measuring range and number of determinations

Cell	Measuring range	Number of determinations
20 mm	2 - 160 mg/l cyanuric acid	100

For programming data for selected photometers / spectrophotometers see www.sigmaaldrich.com/photometry.

3. Applications

Sample material:
Swimming-pool water

4. Influence of foreign substances

The determination is not interfered with by the substances usually contained in swimming-pool water.

5. Reagents and auxiliaries

The test reagent is stable up to the date stated on the pack when stored closed at +15 to +25 °C.

Package contents:

1 box of reagent Cyanuric Acid (100 tablets)
1 stirring rod
1 AutoSelector

Other reagents and accessories:

Water for analysis EMSURE®, Cat. No. 116754
Cyanuric acid for synthesis, Cat. No. 820358

MQuant® Flat-bottomed tubes with screw caps for titrimetric and colorimetric MQuant® tests (12 pcs), Cat. No. 114902
Pipette for a pipetting volume of 5.0 ml
Rectangular cells 20 mm (2 pcs), Cat. No. 114947

6. Preparation

- Analyze immediately after sampling.
- Filter turbid samples.

7. Procedure

Pretreated sample (15 - 25 °C)	5.0 ml	Pipette into a test tube.
Distilled water ¹⁾ (15 - 25 °C)	5.0 ml	Add with pipette, close the test tube, and mix.
Reagent Cyanuric Acid	1 tablet ²⁾	Add and crush with the clean stirring rod. Subsequently close the test tube and swirl until the reagent is completely dissolved and no particles are visible.
Fill the measurement sample into a 20-mm rectangular cell, and measure in the photometer.		

¹⁾ It is recommended to use water for analysis EMSURE®, Cat. No. 116754.

²⁾ **Do not touch the tablet with the fingers!**

Notes on the measurement:

- Certain photometers may require a blank** (distilled water **without** reagents).
- For turbidimetric measurement the cells must be clean. Wipe, if necessary, with a clean dry cloth.
- The reagent tablet must be completely dissolved.** Undissolved particles produce false-high measurement results.
- The turbidity of the measurement solution remains stable for 10 min.**

8. Analytical quality assurance

To check the photometric measurement system (test reagent, measurement device, handling) and the mode of working, a freshly prepared cyanuric acid standard solution containing 80 mg/l cyanuric acid (application see the website) can be used.

Sample-dependent interferences (matrix effects) can be determined by means of standard addition.

Additional notes see under www.qa-test-kits.com.

For quality and batch certificates for Spectroquant® test kits see the website, where you will find all data in production control, that are determined in accordance with ISO 8466-1 and DIN 38402 A51.

9. Note

Information on disposal can be obtained at www.disposal-test-kits.com.

