

Cyanuric Acid 120

Range(s): 7-120 ppm CYA



Procedure

Note: Filter turbid or colored sample water before testing.

1. Turn on the Colorimeter.
2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing Cyanuric Acid 120 using ◀▶.
3. Select Cyanuric Acid 120 using ▲▼; then press ENTER Ⓢ.
4. Rinse and fill 25 mm sample cell to 10 mL mark with sample; then cap.
5. Insert sample cell into sample cell compartment. Align marks per User's Manual.

6. Select ZERO using ◀▶; then press ENTER Ⓢ. Zero will be displayed.
7. Remove sample cell from sample cell compartment; then remove cap.
8. Add Cyanuric Acid 120 - Reagent A to 15 mL mark; then cap and invert five times to mix.
9. Insert sample cell into sample cell compartment. Align marks.
10. Select TIMER using ◀▶; then press ENTER Ⓢ.

11. Select START using ◀▶; then press ENTER Ⓢ. (A 2-minute [02:00] countdown will begin.) Immediately select AUTO using ◀▶; then press ENTER Ⓢ.
12. When the timer beeps, the instrument will read the sample and the result will be displayed.

Note: For cyanuric acid concentrations greater than 100 ppm, dilute sample 1:4. Rinse and fill dilution vial to 10 mL mark with sample. Dilute to 50 mL mark with DI Water (R-0833) or cyanuric acid-free water. Retest using diluted sample. Multiply result by 5.

Interferences

Alkalinity, Total (CaCO_3) > 250 ppm – negative interference
Hardness, Calcium (CaCO_3) > 1250 ppm – negative interference

The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:
Biguanide (as product) – 50 ppm
Bromine – 10 ppm

Chlorine – 10 ppm
Copper – 0.5 ppm
Iron, Ferric – 0.5 ppm
Iron, Ferrous – 0.5 ppm

Test Method

Turbidity (Absorptometric)

Under slightly acidic conditions cyanuric acid is precipitated by melamine, resulting in turbidity proportional to the concentration of cyanuric acid in a sample.

Estimated Detection Limit

7 ppm CYA

Precision

Using two lots of reagent and a standard solution of 43 ppm CYA, an individual analyst obtained a standard deviation with the instrument of ± 5 ppm CYA.

Application

Recreational Water

Ordering Info

Reagent Pack

K-8032 Cyanuric Acid 120

Formulated for exclusive use with Taylor's TTi® Colorimeter.

Reagent Pack Components

R-8032A Cyanuric Acid 120 - Reagent A

Optional Reagents & Accessories

R-0833 DI Water

#6249 Filter Disc Holder, 25 mm, Millipore™ (for 6247 & 6260)

#6257 Filter Discs, 2.5 μ m, 25 mm, Whatman™, 100/box

#6260 Syringe (no filter disc holder or filter discs), 30 mL, plastic

Instruction #5708

