



Cyanuric Acid 120

Range(s): 7-120 ppm CYA

Procedure

Note: When testing multiple samples simultaneously, a separate sample cell with an unreacted sample of the water tested must be used to zero the colorimeter. Please note that varying the test procedure from the original can affect the precision of the test.

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

