HPT240 Chlorine Dioxide

Amaranth method—Low range 20–500 µg/L

Scope and application: For water and drinking water.



Test preparation

Reagent storage

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

Items to collect

Description	Quantity
25 mL volumetric plastic flask and 1 mL syringe with scale and 1 needle (HCS140)	2
Sample Cell 10 mL, with stopper (24276-06)	2

Before starting

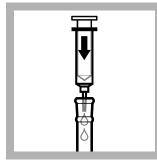
For best accuracy, it is recommended to use a precision pipette for dispensing the reagent.

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.

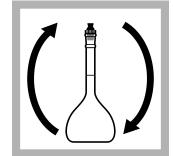
Procedure



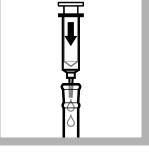
 Blank preparation: Using the syringe, transfer
0 mL of Reagent A into a 25-mL volumetric flask.



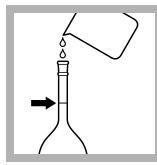
2. Fill the first volumetric flask to the mark with **deionized water**.



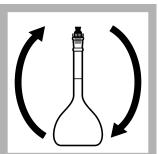
3. Cap and invert the flask a few times.



4. Sample preparation: Using the syringe, transfer 1.0 mL of Reagent A into a second 25-mL volumetric flask.



5. Fill the second volumetric flask to the mark with sample.

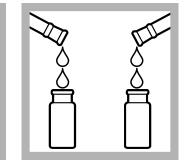


6. Cap and invert the flask

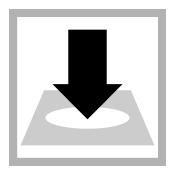
a few times.

7. Start the reaction timer

for 1 minute.

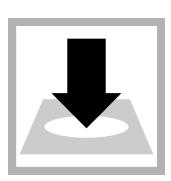


 Pour 10 mL of each volumetric flask into
different 10-mL cuvettes (blank and prepared sample).





10. Remove the blank.



11. Insert the **prepared sample** into the cell holder. Push **READ**.

ZERO.

cell holder.

9. Insert the blank into the

Go to Stored Programs.

Select the test (78), push

The following compounds do not interfere:

Interference level	Compound
2.0 mg/L	CIO ₂ -
2.0 mg/L	CIO ₃ -
2.0 mg/L	CIO-
1.0 mg/L	Cu ²⁺
0.5 mg/L	Fe ³⁺
0.2 mg/L	CrO ₄ ^{2–}



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