

Taylor R-0009-C

Taylor R-0009-C Sulfuric Acid .12N Reagent Instruction Manual

Model: R-0009-C | Brand: Taylor Technologies

1. PRODUCT OVERVIEW

The Taylor R-0009-C Sulfuric Acid, .12N Reagent is a replacement component designed for use with various Taylor water test kits. This 2 oz (60 mL) bottle contains Sulfuric Acid .12N, which is essential for accurate water analysis in pools and spas. Taylor Technologies has been a trusted supplier of high-quality water testing products and analysis since 1930, with products proudly built in the USA.

This reagent is specifically formulated to ensure reliable and accurate results when performing tests such as the Total Alkalinity Test.



Image: Taylor R-0009-C Sulfuric Acid .12N Reagent in a 2oz bottle, labeled for replacement in Taylor Test Kits.

2. SAFETY INFORMATION

WARNING: Sulfuric Acid is a corrosive chemical. Handle with extreme care.

- **Keep out of reach of children.**
- Avoid contact with skin, eyes, and clothing. Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, when handling this product.
- In case of contact, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.

- Do not ingest. If swallowed, do not induce vomiting. Drink plenty of water and seek immediate medical attention.
- Store in a cool, dry, well-ventilated area, away from direct sunlight, heat, and incompatible materials. Keep container tightly closed when not in use.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

3. USAGE INSTRUCTIONS: TOTAL ALKALINITY TEST

The Taylor R-0009-C Sulfuric Acid .12N Reagent is used in the titration step of the Total Alkalinity Test. The following steps outline the general procedure for performing this test using a Taylor test kit. Always refer to your specific test kit's instructions for precise details.

Preparation

1. Rinse the large comparator tube thoroughly with the water to be tested.
2. Fill the large comparator tube to the 25 mL mark with the water sample.

Testing Procedure

3. **Neutralize Sanitizer Residual:** Add 3 drops of Reagent 7 (Thiosulfate) to the water sample. Cap the tube and swirl to mix.
4. **Add Indicator:** Add 5 drops of Reagent 8 (Total Alkalinity Indicator) to the sample. Cap the tube and swirl to mix. The sample should turn green.
5. **Titration with R-0009-C:** Add Reagent 9 (Sulfuric Acid .12N) drop-wise to the sample. After each drop, cap the tube and swirl to mix. Continue adding drops until the color changes from green to red.

Reading Results

- Multiply the number of drops of Reagent 9 used by 10.
- Record this result as parts per million (ppm) calcium carbonate, which represents the Total Alkalinity.

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Video: Demonstration of a Total Alkalinity Test using Taylor reagents, including R-0009-C Sulfuric Acid. This video illustrates the steps for neutralizing sanitizer, adding indicator, and performing the titration.

4. TROUBLESHOOTING

Indicator Bleaching Out (High Chlorine/Bromine)

The most common interference in a Total Alkalinity Test is caused by high levels of chlorine or bromine in the water sample. If excessive sanitizer is present, one of the organic dyes used in the Total Alkalinity Indicator (Reagent 8) may bleach out. When this occurs, the reaction's color changes from blue to yellow instead of the expected green to red.

Solution: To prevent this interference, retest the water sample. In Step 3 of the testing procedure (Neutralize Sanitizer Residual), add one additional drop of Reagent 7 (Thiosulfate), for a total of 3 drops of Thiosulfate. This will help neutralize the higher sanitizer levels and allow for an accurate reading.

Polymeric Biguanide (PHMB) Interference

If a polymeric biguanide (PHMB) product is used in the pool or spa, the water sample may turn from green to purple instead of green to red during the Total Alkalinity Test. This color change, even if purple, can still be used as a reliable endpoint for the test.

Other tests normally performed on pool and spa water should not be affected by the presence of PHMB.

5. SPECIFICATIONS

Attribute	Value
Model Number	R-0009-C
Brand	Taylor
Item Form	Liquid
Item Volume	59.15 Milliliters (2 Ounce)
Manufacturer	Taylor Technologies
UPC	840036000496
ASIN	B0002IXIPO

6. SUPPORT

For technical assistance, questions regarding product usage, or any other support needs related to Taylor products, please contact Taylor Technologies customer service.

Customer Service: 800-TEST KIT