



DISSOLVED OXYGEN

CHECK STANDARD PROCEDURE

CODE 5860-01-EPA

NOTE: Numbers in () are order numbers for LaMotte products. To order individual reagents or test kit components, use the specified code number.

EPA ACCEPTED PROCEDURE

To qualify as an EPA accepted test, and to achieve the greatest accuracy, the Sodium Thiosulfate Solution, 0.025N (4169) must be standardized daily.

PROCEDURE

1. Fill a 250 mL graduated cylinder (2-2080) to the 240 mL line with Deionized Water (5115). Transfer to 500 mL Erlenmeyer flask (0435).
2. Use a 5 mL transfer pipet (2-2174) to add 5.0 mL of *Potassium Dichromate, 0.1N (6343).
3. Use a second 5 mL transfer pipet (2-2174) to add 5.0 mL of *Sulfuric Acid, Concentrate (5172).
4. Use a 1 g spoon (0697) to add 5 g (five measures) of Potassium Iodide Crystals (6809). Swirl to mix. Solution will turn yellowish brown.
5. While gently swirling flask, add Sodium Thiosulfate, 0.025N (4169) from a graduated measuring pipet or buret until color fades to pale yellow. Hold pipet vertically. Note: any buret or graduated measuring pipet that dispenses 20.2 mL or greater, can be used in this step such as LaMotte's 25 mL measuring pipette, code 2-2169.
6. Use a 1 mL pipet (0354) to add 1 mL of Starch Indicator Solution (4170WT). Solution will turn blue.
7. Continue adding Sodium Thiosulfate Solution, 0.025N (4169) until blue color disappears. Read pipet. If reading is 20.0 ± 0.2 mL, the Sodium Thiosulfate, 0.025N (4169) is satisfactory. If not, discard and replace with new reagent.

***WARNING:** Reagents marked with an * are considered to be potential health hazards. To view or print a Safety Data Sheet (SDS) for these reagents go to www.lamotte.com. Search for the four digit reagent code number listed on the reagent label, in the contents list or in the test procedures. Omit any letter that follows or precedes the four digit code number. For example, if the code is 4450WT-H, search 4450. To obtain a printed copy, contact LaMotte by email, phone or fax.

Emergency information for all LaMotte reagents is available from Chem-Tel (US, 1-800-255-3924) (International, call collect, 813-248-0585).

Warning! This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

LaMOTTE COMPANY

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