



TOTAL SO₂ by RIPPER METHOD

PROCEDURE

25ml Serological Pipet
5ml Dispenser (for H₂SO₄) [Repipet or equivalent]
Squeeze bottle (for starch indicator)
10ml Dispenser (for NaOH) [Tilt-a-Pet or equivalent]
250ml Erlenmeyer Flask(s)
10ml Buret Assembly
Safety bulb

REAGENTS

1% Starch Indicator
1+3 Sulfuric Acid CAUTION: CORROSIVE
1N Sodium Hydroxide CAUTION: CORROSIVE
0.02N Iodine **

PROCEDURE

Pipet 25ml of sample into the Erlenmeyer flask. Add 1-2ml starch indicator and approx. 10ml 1N sodium hydroxide. Let stand approx. 10 minutes.

Add 5ml sulfuric acid and immediately and quickly titrate with 0.02N Iodine to a blue color that lasts for approx. 30 seconds.

(If doing more than one sample, add sulfuric acid to a single flask just before titrating.)

CALCULATIONS

Total SO₂ (ppm) = N I₂ x mls I₂ x 1280

Note: If N of I₂ is 0.02, then total SO₂ (ppm) = ml I₂ x 25.6

NOTES

** Standardize Iodine frequently.
See additional notes in procedure for Free SO₂.

DISPOSAL

Add 5 ml of Kolor-Safe Neutralizer and discard with water in sink.