

FREE SO₂ BY RIPPER METHOD

Equipment

- 25mL Serological Pipet
- 5mL Dispenser (for H₂SO₄) [Repipet or equivalent]
- Squeeze bottle (for starch indicator)
- 250mL Erlenmeyer Flasks
- 10mL Buret Assembly
- Pipet Safety bulb

Reagents

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

Procedure

- Pipet 25mL of sample into the Erlenmeyer flask. Add 1 mL starch indicator.
- Add 5mL Sulfuric acid and immediately titrate with 0.02N Iodine to a blue color that lasts for 30 seconds.
- (If doing more than one sample, add sulfuric acid to each flask just before titrating.)

Calculations (for 25 mL sample)

Free SO₂ (ppm) = $\frac{N}{10} \times \text{mL I}_2 \times 1280$

Note: If $\frac{N}{10}$ of I₂ is 0.02, then Free SO₂ (ppm) = mL I₂ x 25.6

Notes

- ** Standardize Iodine frequently.
- For sparkling wines, substitute a 25 mL glass graduated cylinder for the 25 mL pipet to minimize degassing.

Disposal

Add approximately 5mL of Kolor-Safe Acid Neutralizer and discard with water in sink.