



FREE SO₂ by RIPPER METHOD

EQUIPMENT

25ml Serological Pipet
5ml Dispenser (for H₂SO₄) [Repipet or equiv]
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 25mls of sample into the Erlenmeyer flask. Add 1ml starch indicator.
Add 5mls 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

$$\text{Free SO}_2 (\text{ppm}) = N \text{ I}_2 \times \text{mls I}_2 \times 1280$$

Note:

$$\text{If } N \text{ of I}_2 \text{ is } 0.02, \text{ then Free SO}_2 (\text{ppm}) = \text{mls I}_2 \times 25.6$$

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 5mls of Kolor-Safe Acid Neutralizer and discard with water in sink.