

Frantz Paul Apparatus

The determination of free and total SO₂ by distillation-oxidation is based on the use of a Frantz Paul apparatus, whose different parts must respect specific characteristics, such as the shape, the materials and the dimensions. This is the only method considered as a reference by the OIV.

Principle

SO₂ is extracted by gas in acid condition (air or nitrogen). It is fixed and oxidized in the bubbling flask, containing a diluted and neutralized solution of hydrogen peroxide. The sulphuric acid formed is titrated with a standard solution of sodium hydroxide. The free SO₂ is extracted from a cold sample, while total or combined SO₂ requires to heat the sample.

Included accessories

- Epoxy tray, stainless steel stem, clips and clamps
- Glass parts including 2 flasks (100 and 250 ml)
- Hoses to connect the condenser

Optional accessories and products

- 119301 : electric vacuum mini compressor
- 119302 : Heating accessories (gas burner, ring and gauze)
- 119303 : Flowmeter for gas 0-1 l/min

- 960500 : orthophosphoric acid 25% 500 ml
- 990015 : hydrogen peroxide 125 ml
- 961500 : colored reagent f/Frantz Paul 500 ml
- 907500 : sodium hydroxide N/10 500 ml (to dilute 10 times and titrate just before use)
- 119304 : Titration stand with sodium hydroxide



Réf. 119300

Dimensions HxWxD (cm) : 60x45x20 cm
Weight (kg) : 5,5kg

Electric vacuum
mini compressor
Réf. 119301

