

Compact, Dedicated Wine Meter with a built-in Stirrer

The HI 84184 is a low cost, easy to use, fluoride ISE instrument that performs automatic analysis with all the necessary calculations assuring to the user a simple and effective interface.

The instrument comes with a powerful and effective built-in algorithm to analyze the shape of the ISE electrode response and to determine the reaction completion.

By simply pressing the Start key, the instrument performs automatic analysis, all the necessary calculations and verifications. The result is immediately displayed in convenient units and then the instrument is ready for another measurement.

Significance of Use

Fluoride ion (F^-) comes from grapes used for wine and its usual concentration value varies between 0.1 and 2 mg/L. Higher levels of fluoride content in wine can derive from cryolite used by farmers as an insecticide in the vine.

The HI 84184 ISE Fluoride meter measures the fluoride content in wine using an ion selective electrode.

The method used is double standard addition, and the result is readily displayed in F^- mg/L (ppm).

- Compact unit designed for wine analysis
- Log up to 50 Samples
- Twist-on electrode holder and built-in 500 rpm stirrer



SPECIFICATIONS

HI 84184

Range	0.0 to 5.0 mg/L (ppm) F^-
Resolution	0.1 mg/L (ppm) F^-
Accuracy (@20°C)	±5% of reading
Sample Volume	50 mL
Temp. Compensation	Automatic from 0 to 80 °C
Electrode	HI 61010 Fluoride half cell HI 5315 Reference half cell
Temperature Probe	HI 7662-T (included)
Log Feature	50 samples
Stirring Speed	500 rpm
Power	115V/230 Vac; 50-60Hz; 10VA
Environment	0 to 50 °C (32 to 122 °F); max 95% RH non-condensing
Dimensions	208 x 214 x 163 mm (8.2 x 8.4 x 6.4") (with beaker)
Weight	2200 g (77.6 oz.)

Note: Above 3 mg/L the instrument process information about the approximate fluoride content.

ORDERING INFORMATION

HI 84184-01 (115V) and **HI 84184-02** (230V) is supplied with reagent set for 20 tests, 1000 μ L automatic pipette, plastic tips for 1000 μ L automatic pipette (4), 50 mL beakers (2), 20 mL beakers (2), HI 61010 fluoride half cell, HI 5315 reference half cell, HI 7662-T temperature probe, Stir bars (2), HI 7075 refilling solution, 30 mL (4), 1 mL syringe, 1 mL pipette, instruction sheet, power cable and instruction manual.

ELECTRODES

HI 61010 Fluoride half cell
HI 5315 Reference half cell
HI 7662-T Temperature probe

SOLUTIONS and REAGENTS

HI 7075 Electrode filling solution
HI 84184-20 Reagent set (20 tests)

HI 84184-0 TISAB W/5 for Fluoride electrode, 100 mL (5)

HI 84184-1 Standard No. 1 for Fluoride electrode, 500 mL

HI 84184-2 Standard No. 2 for Fluoride electrode, 500 mL

ACCESSORIES

HI 731316 Stir bar (5 pcs.)
HI 731341 Automatic pipette, 1000 μ L
HI 731351 Tips for 1000 μ L automatic pipette (25)
HI 731355P Capillary pipettes (20)
HI 740036P 50 mL plastic beakers (10)
HI 740037P 20 mL plastic beakers (10)
HI 740143 Syringe, 1 mL (6)
HI 740144 Syringe tip (6)