

HI96729 • HI96739

Fluoride Portable Photometers

- **CAL Check™**
 - Enables users to check validity of calibration
- **BEPS**
 - Alerts the user of low battery power that could adversely affect reading
- **GLP Features**
 - Meets Good Laboratory Practices

Fluoride is best known for preventing tooth decay. Water authorities often add fluoride to drinking water to maintain approximately a 1.0 mg/L (ppm) concentration. Fluoride can be found naturally in ground water, particularly if a reservoir is in the proximity of sea water. While fluoride does help prevent tooth decay, too little can be ineffective and too much can cause staining of teeth.

The HI96729 meter measures the fluoride (F⁻) content in the 0.00 to 2.00 mg/L (ppm) range, in drinking, surface and wastewaters. The amount of reagent is precisely dosed by use of the supplied automatic pipette for maximum repeatability.

The HI96739 meter measures the fluoride (F⁻) content in water, wastewater and sea water in the 0 to 20 mg/L (ppm) range.

Both meters use an exclusive positive-locking system to ensure that the cuvette is in the same position every time it is placed into the measurement cell. It is designed to fit cuvettes with a larger neck, making it easier to add both sample and reagents. The cuvettes are made from special optical glass to obtain the best results.



Specifications	HI96729 Fluoride LR	HI96739 Fluoride HR
Range	0.00 to 2.00 mg/L (ppm)	0.0 to 20.0 mg/L (ppm)
Resolution	0.01 mg/L	0.1 mg/L
Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading	±0.5 mg/L ±3% of reading
Light Source	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 575 nm	
Power Supply	9V battery	
Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Dimensions	193 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
Weight	360 g (12.7 oz.)	
Method	adaptation of the EPA method 340.1 and SPADNS method	adaptation of the SPADNS method
Ordering Information	<p>HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately</p> <p>HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately</p>	
Reagents and Standards	<p>HI96729</p> <p>HI96739</p>	<p>HI93703-53 reagent for reducing chlorine concentration</p> <p>HI96729-11 CAL Check™ standard cuvettes</p> <p>HI93729-01 reagents for 100 tests</p> <p>HI93729-03 reagents for 300 tests</p> <p>HI96739-11 CAL Check™ standard cuvettes</p> <p>HI93739-01 reagents for 100 tests</p> <p>HI93739-03 reagents for 300 tests</p>

Standard reagents begin on page 10.70; CAL Check™ standard reagents begin on page 10.71