HI 729 • HI 739

Fluoride Low Range and High Range Handheld Colorimeters

Fluoride is one of the very few chemicals that have been shown to cause significant effects in people through drinking-water. Fluoride has beneficial effects on teeth at low concentrations in drinking-water, but excessive exposure to fluoride in drinking-water, or in combination with exposure to fluoride from other sources, can give rise to a number of adverse effects.

Water fluoridation is the controlled addition of fluoride to a public water supply to reduce tooth decay. Fluoridated water operates on tooth surfaces: in the mouth it creates low levels of fluoride in saliva, which reduces the rate at which tooth enamel demineralizes and increases the rate at which it remineralizes in the early stages of cavities.

A 1994 World Health Organization expert committee suggested a level of fluoride from 0.5 to 1.0 mg/L, depending on climate. Bottled water typically has unknown fluoride levels, and some domestic water filters remove some or all fluoride.

The HI 729 Checker®HC is simple to use. For this measurement you need 2 vials (#1 and #2); in both vials add 2 mL of reagent and until the mark: deionized water in vial #1 and sample in vial #2, and gently invert 5 times, and wait 2 minutes. Then insert the cuvette #1 into the HI 729 Checker®HC and press the button to zero; after that cuvette #2 to read the measurement results.

The HI 739 Checker®HC is simple to use. In one vial add 2 ml of Reagent A and 8 ml of Reagent B; gently invert 5 times, and wait 1 minute, then zero the instrument with the vial. After zeroing, remove the vial and add 1 ml of sample, gently invert 5 times, wait 1 minute, then insert the cuvette into the HI 739 Checker®HC and press the read button for results.

ORDERING INFORMATION

HI 729 Checker®HC is supplied with sample cuvettes with caps (2), reagents for 6 tests, syringe with tip, battery and instructions.
HI 739 Checker®HC is supplied with sample cuvettes with caps (2), reagents for 4 tests, syringe with tip, pipette, battery and instructions.

REAGENTS AND STANDARDS

HI 729-26	Reagents for 25 tests (Fluoride LR)
HI 739-26	Reagents for 25 tests (Fluoride HR)
HI 729-11	Calibration checking set (0 and 1.00 ppm Fluoride)
HI 739-11	Calibration checking set (0 and 10.0 ppm Fluoride)

ACCESSORIES

HI 731318	Cuvette cleaning cloth (4)
HI 731321	Glass cuvettes (4)
HI 731225	Caps for cuvettes (4)
HI 93703-50	Cuvette cleaning solution, 230 mL

Checker HC® handheld colorimeter

Easier to use and more accurate than chemical test kits

- SPADNS method
- HI 729: ±0.05 ppm ±5% of reading accuracy
- HI 739: ±0.5 ppm ± 5% of reading accuracy
- Large, easy to read digits
- Auto shut off

Dedicated to a single parameter

- Designed to work with HANNA's reagents
- Uses 10 mL glass cuvettes

Small size, big convenience

- Weighing a mere 64 g (2.25 oz.), the Checker®HC easily fits into the palm of your hand or pocket
- Use for quick and accurate on the spot analysis
- Single button operation: zero and measure
- Operated by a single AAA battery

Ideal for:

- Water quality

SPECIFICATIONS	HI 729 (Fluoride LR)	HI 739 (Fluoride HR)
Range	0.00 to 2.00 ppm	0.0 to 20.0 ppm
Resolution	0.01 ppm	0.1 ppm
***Accuracy @ 25°C/77°F**	±0.05 ppm ±5% of reading	±0.5 ppm ± 5% of reading
Light Source	LED @ 575 nm	
Light Detector	silicon photocell	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Battery Type	(1) 1.5V AAA	
Auto-off	after two minutes of non-use and ten seconds after reading	
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")	
Weight	64 g (2.25 oz.)	
Method	adaptation of SPADNS method	

* Excluding sample volume error

HANNA instruments®

With Great Products, Come Great Results™