

HI 96720 • HI 96719

Hardness Standard Method Portable Photometers

- CAL CHECK™
- User calibration
- Certified calibration and verification standards
- BEPS (Battery Error Prevention System)
- TIMER function
- Auto shut-off
- GLP Features.

The HI 96720 measures the calcium hardness content, as CaCO₃, in water and wastewater in the 0.00 to 2.70 mg/L (ppm) range.

The HI 96719 measures the magnesium hardness content, as CaCO₃, in water and wastewater in the 0.00 to 2.00 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 best results.



Water, with exception to distilled water, contains dissolved salts (**magnesium and calcium carbonates**). The concentration of these salts determines the water hardness, which can be expressed in calcium carbonate or magnesium carbonate. The sum of these two represents the total hardness level.

In addition, this parameter is also related to the phenomenon of pipe rusting in water heating and cooling systems, reverse osmosis and demineralization plants.

ORDERING INFORMATION

HI 96720 and HI 96719 are supplied with sample cuvettes (2) with caps, 9V battery and instruction manual.

CAL CHECK™ standards and testing reagents sold separately

HI 96720C and HI 96719C include photometer, sample cuvettes (2) with caps, 9V battery, 1 mL syringe with tip, cuvette cleaning cloth, instrument quality certificate, instruction manual and rigid carrying case.

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

For HI 96720

HI 96720-11 CAL CHECK™ standard cuvettes

HI 93720-01 Reagents for 100 tests

HI 93720-03 Reagents for 300 tests

For HI 96719

HI 96719-11 CAL CHECK™ standard cuvettes

HI 93719-01 Reagents for 100 tests

HI 93719-03 Reagents for 300 tests

SPECIFICATIONS	HI 96720 Ca Hardness	HI 96719 Mg Hardness
Range	0.00 to 2.70 mg/L (ppm)	0.00 to 2.00 mg/L (ppm)
Resolution	0.01 mg/L (ppm)	0.01 mg/L (ppm)
Accuracy @ 25°C (77°F)	±0.11 mg/L ±5% of reading	
Light Source	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 525nm	
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	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
Weight	360 g (12.7 oz.)	
Method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th ed. Calmagite method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th ed. EDTA colorimetric method

The reagents are in liquid form and are supplied in bottles. The amount of reagent is precisely dosed by use of the supplied automatic pipette to ensure the maximum repeatability.

For a complete list of Reagents, see Reagents Section 18.