



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

Small quantities of silver are bacteriostatic or bactericidal. As a result, it is at times used in disinfection of pools and spas, as well as in water filters.

The presence of silver in water is generally indicative of pollution from mainly film manufacturers, film processors and surface finishers. In fact, silver levels are closely monitored in these sectors since its presence can cause discoloration of the skin, eyes and mucous membranes.

The HI 96737 measures the silver content in water and wastewater in the 0.000 to 1.000 mg/L (ppm) range.

This instrument uses an exclusive positive-locking system to ensure that the cuvette is in the same place every time it is placed into the measurement cell.

The cuvette has a very important role because it is an optical element and thus requires particular attention. It is important that both, the measurement and the calibration (zeroing) cuvettes, are optically identical to provide the same measurement conditions.

Seawater contains approximately 2-100 ppt of silver, and the surface concentration may be even lower. River water generally contains approximately 0.3-1 ppb of silver. The phytoplankton concentration is 0.1-1 ppm (dry mass), leading to a 104-105 bio concentration factor in seawater. In oyster tissue, concentrations of approximately 890 ppm (dry mass) were found.

Silver does not react with pure water. It is stable in both water and air. Moreover, it is acid and base resistant, but it corrodes when it comes in contact with sulphur compounds. Dissolved in water silver mainly occurs as Ag^+ (aq), and in seawater as $AgCl_2^-$ (aq).

SPECIFICATIONS	HI 96737 Silver
Range	0.000 to 1.000 mg/L (ppm)
Resolution	0.001 mg/L (ppm)
Accuracy @ 25°C (77°F)	±0.005 mg/L ±10% 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	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight	360 g (12.7 oz.)
Method	adaptation of the PAN method

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

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

ORDERING INFORMATION

HI 96737 is supplied with sample cuvettes (2) with caps, 9V battery and instruction manual.
CAL CHECK™ standards and testing reagents sold separately.

REAGENTS AND STANDARDS

HI 96737-11 CAL CHECK™ standard cuvettes
HI 93737-01 Reagents for 50 tests
HI 93737-03 Reagents for 150 tests