

Free and Total Chlorine, High Range Portable Photometer



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

HI 96734 permits free and total chlorine analysis to monitor overchlorination through chloramine destruction.

The HI 96734 photometer 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 calibration (zeroing) cuvettes, are optically identical to provide the same measuring conditions.

Bleach/chlorine is the most cost effective disinfectant and is used extensively in dialysis clinics. Its use varies from light duty application in surface sanitation to heavy duty disinfection of medical devices or removal of microorganism infections in piping systems. The advantage of chlorine over peroxide type disinfectants is that chlorine not only is a strong oxidant, it also is capable of breaking tough chemical bounds found in cell walls or biofilms. Correct and effective use of bleach/chlorine requires understanding of the chemical nature of the disinfectant.

SPECIFICATIONS	HI 96734 Free and Total Chlorine, High Range	
	Chlorine, Free HR (P1)	Chlorine, Total HR (P2)
Range	0.00 to 10.00 mg/L	0.00 to 10.00 mg/L
Resolution	0.01 mg/L from 0.00 to 3.50 mg/L; 0.10 mg/L above mg/L	
Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading (excluding dilution error)	
Light Source	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 525 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 USEPA method 330.5 and Standard method 4500-CL G	

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

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

ORDERING INFORMATION

HI 96734 is supplied with sample cuvettes (2) with caps, 9V battery and instructions.

CAL CHECK™ standards and testing reagents sold separately

HI 96734C includes HI 96734 photometer, sample cuvettes (2) with caps, 9V battery, scissors, cuvette cleaning cloth, instrument quality certificate, instruction manual and rigid carrying case.

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

HI 93734-01 Reagents for 100 Tests

HI 93734-03 Reagents for 300 Tests

HI 96734-11 CAL CHECK™ standard cuvettes