HI96723 • HI96749

Chromium VI HR and LR 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

Chromium compounds are used in the textile industry as mordants, and by the aircraft and other industries for anodizing aluminum.

All compounds of chromium are colored; the most important are the chromates of sodium and potassium and the dichromates of potassium and ammonium. The dichromates are used as oxidizing agents in quantitative analysis, they are also used in tanning leather.

Another compound of industrial value is lead chromate, which is chrome yellow, a valuable pigment.

At normal temperatures, chromium is corrosion-resistant. For this reason, it plays an important role in the plating industry as well as cooling towers. In addition, it has certain qualities that make it useful in the production processes of the textile industry.

Chromium is very useful in industry, but the by-product hexavalent chromium (Cr VI) is produced, which is a known carcinogen, and must be removed from wastewater.

The HI96723 and HI96749 are valuable meters that measure the hexavalent chromium (Cr VI) content in water and wastewater samples.

The 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.

Specifications	HI96723 Chromium VI HR	HI96749 Chromium VI LR
Range	0 to 1000 µg/L (ppb)	0 to 300 µg/L (ppb)
Resolution	1 µg/L	1 µg/L
Accuracy @ 25°C (77°F)	±5 µg/L ±4% of reading	±1 µg/L ±4% of reading
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	193 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
Weight	360 g (12.7 oz.)	
Method	adaptation of the ASTM Manual of Water and Environmental Technology, D1687-92, diphenylcarbohyzide method.	
Ordering Information	**HI96723** and **HI96749** are supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately	
Reagents and Standards	**HI96723-11**	CAL Check™ standard cuvettes
	HI96749-11	CAL Check™ standard cuvettes
	HI93723-01	reagents for 100 tests
	HI93723-03	reagents for 300 tests
	HI93749-01	reagents for 100 tests
	HI93749-03	reagents for 300 tests

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