Chromium VI High Range Handheld Colorimeter

There are two natural forms of ionic chromium, the hexavalent ion, Cr (VI) and the trivalent Cr (III). Cr (III) is much less toxic than Cr (VI) and seldom found in potable waters. Cr (VI), however, is toxic to humans and is found in water. Even though the toxic effects from Cr (VI) in drinking water are not well documented, it is a suspected carcinogen.

There are many industries that use chromic acid and other forms of Cr (VI) that could be a possible source of Cr (VI) pollution in either water or air or both. One industry that can introduce Cr (VI) to water sources is the chrome-plating industry (for the plating of car bumpers). Chromic acid is used in the electroplating process and can be present in industrial waste waters. Cr (VI) also can enter water supplies from industrial cooling towers where chromic acid is added to the water to inhibit metal corrosion.

The maximum permissible level or Cr (VI) allowed to be released into the waterways is 50 ppb. Its level in drinking water is normally much lower and a lever higher than 3 ppb is suggestive of industrial pollution.

By monitoring this parameter with the HANNA HI 723 Checker®HC, serious health and safety risks can be avoided

The HI 723 Checker®HC is extremely simple to use. First, zero the instrument with your water sample. Next, add the reagent, shake vigurosly for 10 seconds. Last, place the vial into the Checker®HC, press the operational button for about 3 seconds and the display will show the countdown prior to the measurement or, alternatively, wait for 6 minutes and press operational button. When the timer ends the meter will perform the reading. The Checker®HC displays concentration in ppb of chromium VI. It's that easy.

ORDERING INFORMATION

HI 723 Checker®HC is supplied with sample cuvettes with caps (2 ea.), powder reagents for chromium VI HR (6), battery and instructions.

REAGENTS AND STANDARDS

HI 723-25 Reagents for 25 tests
HI 723-11 Calibration checking set
(0 and 300 ppb chromium VI)

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



Easier to use and more accurate than chemical test kits

Diphenylcarbohydrazide method Accuracy ±5 ppb ±5% of reading

1 ppb (μg/L) resolution

Large, easy to read digits

Auto shut off

Dedicated to a single parameter

Designed to work with HANNA's powder 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 723 (Chromium VI High Range)
Range	0 to 999 ppb
Resolution	1 ppb
Accuracy @ 25°C/77°F	±5% of reading ±5 ppb
Light Source	LED @ 525 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 ten minutes of non-use
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")
Weight	64 g (2.25 oz.)
Method	adaptaion of the ATSM, Manual of Water and Enviornmental Technology, D 1687-92, Diphenylcarbohydrazide method



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