

Method

References: APHA Standard Methods, 21st ed., Method 3500-Cr B (2005). ASTM D 1687-02, Chromium in Water, Test Method A.

Hexavalent chromium salts are used in numerous industrial processes. They are also used extensively as corrosion inhibitors in open and closed cooling water systems.

With the chromate test method, hexavalent chromium reacts with diphenylcarbazide under acid conditions to form a red-violet color. Results are expressed as ppm (mg/L) CrO₄.



Visual Kits

Range: 0-1 & 1-10 ppm
MDL: 0.05 ppm / Method: Diphenylcarbazide

	Cat#
CHEMets Kit	K-2810
CHEMets Refill, 30 ampoules	R-2810
Acidifier Solution Pack, six 10 mL bottles	A-2800 ¹
Low Range Comparator 0, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm	C-2801
High Range Comparator 1, 2, 3, 4, 5, 6, 7, 8, 10 ppm	C-2810

Kit comes in a plastic case and contains everything needed to perform 30 tests: Refill, Low and High Range Comparators, Acidifier Solution, 25 mL sample cup, instructions, and MSDS.

Range: 0-30 & 30-300 ppm
MDL: 5 ppm / Method: Diphenylcarbazide

	Cat#
VACUettes Kit	K-2810D
VACUettes Refill, 30 ampoules	R-2810D
Acidifier Solution Pack, six 10 mL bottles	A-2800 ¹
Low Range Comparator 0, 5, 7.5, 10, 15, 20, 25, 30 ppm	C-2801D
High Range Comparator 30, 60, 90, 120, 150, 175, 200, 250, 300 ppm	C-2810D

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, Acidifier Solution, dilutor snapper cup, micro test tube, instructions, and MSDS.

Range: 0-60 & 60-600 ppm
MDL: 10 ppm / Method: Diphenylcarbazide

	Cat#
VACUettes Kit	K-2810A
VACUettes Refill, 30 ampoules	R-2810A
Acidifier Solution Pack, six 10 mL bottles	A-2800 ¹
Low Range Comparator 0, 10, 15, 20, 30, 40, 50, 60 ppm	C-2801A
High Range Comparator 60, 120, 180, 240, 300, 350, 400, 500, 600 ppm	C-2810A

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, Acidifier Solution, dilutor snapper cup, micro test tube, instructions, and MSDS.

Range: 0-120 & 120-1200 ppm
MDL: 20 ppm / Method: Diphenylcarbazide

	Cat#
VACUettes Kit	K-2810B
VACUettes Refill, 30 ampoules	R-2810B
Acidifier Solution Pack, six 10 mL bottles	A-2800 ¹
Low Range Comparator 0, 20, 30, 40, 60, 80, 100, 120 ppm	C-2801B
High Range Comparator 120, 240, 360, 480, 600, 700, 800, 1000, 1200 ppm	C-2810B

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, Acidifier Solution, dilutor snapper cup, micro test tube, instructions, and MSDS.

Range: 0-1200 & 1200-12,000 ppm
MDL: 200 ppm / Method: Diphenylcarbazide

	Cat#
VACUettes Kit	K-2810C
VACUettes Refill, 30 ampoules	R-2810C
Acidifier Solution Pack, six 10 mL bottles	A-2800 ¹
Low Range Comparator 0, 200, 300, 400, 600, 800, 1000, 1200 ppm	C-2801C
High Range Comparator 1200, 2400, 3600, 4800, 6000, 7000, 8000, 10,000, 12,000 ppm	C-2810C

Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, Acidifier Solution, dilutor snapper cup, micro test tube, instructions, and MSDS.

¹The accessory pack supplies enough solution to perform at least 200 tests.

 Instrumental Kits

V-2000 Multi-Analyte Photometer

(See page 12 for instrumental features)

Range: 0.20-3.50 ppm
Method: Diphenylcarbazide

	Cat#
Vacu-vials Kit	K-2803
Kit comes in a cardboard box and contains everything needed to perform 30 tests: thirty ampoules, Acidifier Solution, 25 mL sample cup, ampoule blank, instructions, calibration table, and MSDS.	

Range: 0.70-13.00 ppm
Method: Diphenylcarbazide

	Cat#
Vacu-vials Kit	K-2823
Kit comes in a cardboard box and contains everything needed to perform 30 tests: thirty ampoules, Acidifier Solution, 25 mL sample cup, ampoule blank, instructions, calibration table, and MSDS.	

Vacu-vials Kits require the use of the V-2000 Photometer or a spectrophotometer capable of accepting a 13 mm diameter round cell. Instrument sold separately.

Kit Components common to Chromate

Description	Cat#
Sample Cup Pack, 25 mL (6 ea)	A-0013
Micro Test Tube Pack (10 ea)	A-0015
Dilutor Snapper Cup Pack (6 ea)	A-0018
Ampoule Blank Pack (5 ea)	A-0023

*Instructions are posted on our website.
If no shelf-life is listed for a product, then the shelf-life is at least 2 years.*

