Come full circle with CHEMetrics COD

USEPA accepted
 Less expensive than other brands

No need to modify existing equipment, accessories or procedures

Reduces operating costsDisposal service offered

COD Reagent Vials*

1.

CHEMetrics Part No.	No. of Tests	Range (ppm)	USEPA Accepted	Hach ¹ Equivalent Cat. No.
K-7350S	25	0-150	Yes	21258-25
K-7360S	25	0-1500	Yes	21259-25
K-7370S	25	0-15,000	No	24159-25
K-7355	150	0-150	Yes	21258-15
K-7365	150	0-1500	Yes	21259-15
K-7375	98	0-15.000	No	24159-15

*USEPA accepted COD Vials can be used for NPDES reporting. See next page for description of disposal service program.

Mercury-free COD Reagent Vials

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CHEMetrics Part No.	No. of Tests	Range (ppm)	USEPA Accepted	Hach ¹ Equivalent Cat. No.
K-7351S	25	0-150	No	25650-25
K-7361S	25	0-1500	No	25651-25
K-7371S	25	0-15,000	No	28343-25
K-7356	150	0-150	No	N/A
K-7366	150	0-1500	No	25651-15
K-7376	98	0-15,000	No	N/A

¹NOTE: No endorsement by Hach Company is implied or intended.

greenCOD[™] Recycling Program

For disposal of CHEMetrics mercury-containing COD Vials. Through our new partnership with U.S. Waste Industries, a full service environmental company, CHEMetrics now offers an easy, economical method to

dispose of CHEMetrics used COD Vials, using our new convenient 5-gallon mail-back program.

- Free shipping
- Certificate of Recycling
 provided
- DOT Approved Recycling Container
- *Holds about 400 used COD Vials
- Available to Conditionally Exempt
 Small Quantity Generators

*For disposal of CHEMetrics mercury-containing COD Vials only. For U.S. customers only. Not available for following states: AK, AR, CA, HI, IL, MA, ME, MI, MN, NH, RI. Contact CHEMetrics Customer Service for details.

Easy 1-2-3 Ordering

CHEMetrics

- 1. Place your order for a 5-gallon recycling container, catalog no. A-7300.
- 2. U.S. Waste Industries will send recycling container and label for shipping. All documentation and transportation cost to recycling facility are

included in purchase.

3. Drop CHEMetrics' used mercurycontaining COD vials in greenCOD[™] recycling container and ship to designated location.

The Dichromate Reactor Digestion Method

Methods

The determination of Chemical Oxygen Demand (COD) is widely used in municipal



USEPA Accepted

and industrial laboratories to measure the overall level of organic contamination in wastewater. The contamination level is determined by measuring the equivalent amount of oxygen required to oxidize organic matter in the sample.

References: USEPA Methods of Analysis of Water and Wastes, Method 410.4 (1983). APHA Standard Methods, 22nd ed., Method 5220 D - 1997. A.M. Jirka and M. J. Carter, "Micro Semi-Automated Analysis of Surface and Wastewaters for Chemical Oxygen Demand," Analytical Chemistry, Vol. 47, p. 1397 (1975). J. A. Winter, "Method Research Study 3, Demand Analysis, An Evaluation of Analytical Methods for Water and Wastewater," USEPA, 1971. ASTM D 1252-00, Chemical Oxygen Demand (Dichromate Oxygen Demand) of Water, Test Method B. CHEMetrics offers two dichromate reactor digestion methods for fast, easy, safe determinations of low-, mid-, and high-range COD levels in wastewater: the USEPA-accepted Method, and a mercury-free method. The products using the USEPA-accepted method contain mercuric sulfate in the reagent to eliminate chloride interferences. The mercury-free product line is applicable when chloride interference is not a concern and USEPA reporting is not required.

CHEMetrics' leakproof reagent vials contain premeasured solutions of sulfuric acid and potassium dichromate. To perform the COD determination, the analyst simply removes the Teflon-lined screw cap from the vial, adds sample to the vial, and replaces the cap. The vial is then heated for two hours at 150°C in a standard digestor block. Once digestion is completed, results are obtained using any photometer that accepts 16-mm diameter cells. CHEMetrics COD vials can be directly used in a CHEMetrics multi-analyte photometer, CHEMetrics' single analyte COD photometers, as well as in Hach¹ spectrophotometers. Built-in Hach COD methods and calibrations can be used without the need for a new calibration. A generic calibration equation is included within the CHEMetrics kit for use with other spectrophotometers.



Range:0-40 (ULR)Method:Dichromate Reactor Digestion		Range:0-1500 ppm (HR)Method:Dichromate Reactor Digestion			
	Cat#		Cat#		
COD (Not USEPA Accepted) Vials Kit	*K-7340S	COD (Mercury Free) Vials Kit	K-7361		
Kit comes in a cardboard box and contains everything needed to pe to 24 tests (except distilled water): 25 vials and instruction book. Shelf-life 12 months.	erform up	Kit comes in a cardboard box and contains everything needed to per to 24 tests (except distilled water): 25 vials and instruction book.	rform up		
Note: This COD Kit requires the use of a Digestor Block and spectro	ophotometer	COD (Mercury Free) Vials Kit	K-7366		
capable of accepting a 16-mm round cell. The K-7340S cannot be used with CHEMetrics Multi-Analyte Photometers or A-7320 COD Low Range Photometer.		Kit comes in a cardboard box and contains everything needed to perform up to 149 tests (except distilled water): 150 vials and instruction book.			
Multi-Analyte Photometers		Range: 0-15,000 ppm (HR+)			
V-2000 / V-3000 Series		Method: Dichromate Reactor Digestion			
(See page 14 for instrumental features)			Cat#		
Range: 0-150 ppm (LR)		COD (Not USEPA Accepted) Vials Kit	*K-7370		
Method: Dichromate Reactor Digestion	0.14	Kit comes in a cardboard box and contains everything needed to per to 24 tests (except distilled water): 25 vials and instruction book.	rform up		
COD (USEPA Accepted) Vials Kit	Cat# *K-7350S	COD (Not USEPA Accepted) Vials Kit	*K-7375		
Kit comes in a cardboard box and contains everything needed to per to 24 tests (except distilled water): 25 vials and instruction book.	Kit comes in a cardboard box and contains everything needed to perform up to 97 tests (except distilled water): 98 vials and instruction book.				
COD (USEPA Accepted) Vials Kit	*K-7355				
Kit comes in a cardboard box and contains everything needed to pe to 149 tests (except distilled water): 150 vials and instruction book		Range: 0-15,000 ppm (HR+) Method: Dichromate Reactor Digestion			
			Cat#		
Range: 0-150 ppm (LR)		COD (Mercury Free) Vials Kit	K-7371		
Method: Dichromate Reactor Digestion		Kit comes in a cardboard box and contains everything needed to per	rform up		
	Cat#	to 24 tests (except distilled water): 25 vials and instruction book.			
COD (Mercury Free) Vials Kit	K-7351S	COD (Mercury Free) Vials Kit	K-7376		
Kit comes in a cardboard box and contains everything needed to perto 24 tests (except distilled water): 25 vials and instruction book.	erform up	Kit comes in a cardboard box and contains everything needed to per to 97 tests (except distilled water): 98 vials and instruction book.	rform up		
COD (Mercury Free) Vials Kit	K-7356	All COD Kits require the use of a Digestor Block along wit	th a		
Kit comes in a cardboard box and contains everything needed to pe to 149 tests (except distilled water): 150 vials and instruction book		CHEMetrics Photometer, a COD Photometer, or a spectroph capable of accepting a 16 mm round cell. Instruments solo	notomete		
		A fresh reagent ampoule blank must be prepared for each			
Range: 0-1500 ppm (HR) Method: Dichromate Reactor Digestion		tests; therefore the number of samples that can be tested kit will vary.	with eac		
	Cat#	Accessories			
COD (USEPA Accepted) Vials Kit	*K-7360S	Description	Cat#		
to 24 tests (weart distilled water). 25 vials and instruction had	erform up	Vial Rack (holds 40 vials)	A-0107		
to 24 tests (except distilled water): 25 vials and instruction book.		Digestor Block US (115 Volt, 12 cells), Warranty 1 year	A-020		
COD (USEPA Accepted) Vials Kit	*K-7365	Digestor Block EURO (230 Volt, 12 cells), Warranty 1 year Digestor Block UK (230 Volt, 12 cells), Warranty 1 year	A-020 A-020		
Kit comes in a cardboard box and contains everything needed to pe		Digestor Block AUS (230 Volt, 12 cells), Warranty 1 year	A-020		
to 149 tests (except distilled water): 150 vials and instruction book		Calibration Standard, 1000 ppm (200 mL), Shelf-life 8 months	A-730		
to 149 tests (except distilled water). Too viais and instruction book	· I	Calibration Standard, 10,000 ppm (200 mL), Shelf-life 8 months	A-731		

See Product Price List for COD Quantity Discount Schedule.

Instructions and MSDS(s) are posted on website.

If no shelf-life is listed for a product, then the shelf-life is at least 2 years.

¹ This product must be refrigerated.

Low Range COD Photometer (0-150 ppm)

High Range COD Photometer (0-1500 & 0-15,000 ppm)

*Contains mercury. Dispose according to local, state or federal laws.

A-7320

A-7325