



INDUSTRY: Municipal & Industrial Wastewater

Product: Chemical Oxygen Demand (COD) Reagent Vials

Catalog Nos. K-7350S, K-7351S, K-7355, K-7356, K-7360S, K-7361S, K-7365, K-7366, K-7370S, K-7371S, K-7375, K-7376

Application: Assessing water quality to determine the degree of organic contamination.

General Description: Measuring COD is one of the most frequently performed tests for assessing water quality in municipal wastewater facilities and industrial wastewater treatment plants and to evaluate the efficiency of treatment processes. It is an indicator of how much oxygen will be required to treat the incoming waste streams (influent) before mechanical screening processes and at the end of the treatment at the discharge point (effluent).

How are our products used? The CHEMetrics COD vials are often used to monitor water treatment plant efficiency. To perform COD determination, the analyst removes the Teflon-lined screw cap from the vial, adds sample to the vial, and replaces the cap. The vials are then heated for two hours at 150°C in a standard digester block. Results are obtained using any photometer or spectrophotometer that accepts a 16 mm cell including Hach instruments with factory-programmed calibrations¹

Testing frequency: High volume. If an account is measuring COD, it is likely they testing frequently and will need large quantities of COD Reagent Vials.

Point of Contact: Lab and Plant Managers, Facility Managers, Lab Technicians

Competition: Hach, Tintometer

Other products of interest: Ammonia, Total Nitrogen, Total Phosphate (TN and TP not currently available from CHEMetrics).

What are the advantages of CHEMetrics COD Vials?

- Cost savings up to 43% over leading competitors.
- CHEMetrics COD Vials can be used directly with any Hach factory-programmed instrument calibrations.
- USEPA-accepted for wastewater analysis
- Mercury-free method available
- No need to modify existing equipment or procedures

Other:

New comparative study shows that CHEMetrics COD vials are equivalent to those manufactured by the Hach Company. Specifically, the study demonstration that test results obtained for wastewater samples using CHEMetrics HR and LR COD vials are statistically equivalent to results obtained for samples with USEPA Reactor Digestion COD Method, Hach Method 8000. CHEMetrics COD kits can be used for National Pollution Discharge Elimination System (NPDES) compliance monitoring.

¹No endorsement by Hach Company is implied or endorsed.