

## Method

Copper is naturally present in the earth's crust and in seawater. Copper-containing fungicides are used to control biological growth in water supplies.

The Maximum Contaminant Level Goal for copper is 1.3 mg/L in drinking water.

The measurement of copper is an important means of monitoring the corrosion of condensate systems and heat exchangers.

### The Bathocuproine Method

Reference: APHA Standard Methods, 22<sup>nd</sup> ed., Method 3500-Cu C - 1999.

CHEMetrics' test kits employ the bathocuproine reagent. Bathocuproine disulfonate forms an orange-colored chelate with copper. The method measures total soluble copper as ppm (mg/L) Cu. The test kits are applicable for analysis of drinking water, surface waters, groundwater, wastewater and seawater.

## Visual Kit

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

	Cat#
<b>CHEMets Kit</b>	<b>K-3510</b>
CHEMets Refill, 30 ampoules	R-3510
Low Range Comparator 0, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm	C-3501
High Range Comparator 1, 2, 3, 4, 5, 6, 7, 8, 10 ppm	C-3510

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

## Instrumental Kit

### Multi-Analyte Photometers

V-2000 / V-3000 Series

(See page 14 for instrumental features)

Range: 0-12.00 ppm / Spec: 0-7.00 ppm

Method: Bathocuproine

	Cat#
<b>Vacu-vials Kit</b>	<b>K-3503</b>

Kit comes in a cardboard box and contains everything needed to perform 30 tests: thirty ampoules, 25 mL sample cup, ampoule blank, and instructions.

*Vacu-vials Kits require the use of a CHEMetrics Direct-Readout Photometer (photometers sold separately) or a spectrophotometer capable of accepting a 13 mm diameter round cell. See page 14 for details.*

### Kit Components common to Copper

Description	Cat#
Sample Cup Pack, 25 mL (6 ea)	A-0013
Ampoule Blank Pack (5 ea)	A-0023

*Instructions and MSDS(s) are posted on our website.*

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

