

HI3846

Chromium Test Kit

The HI3846 is a colorimetric chemical test kit that determines the chromium concentration in samples within a 0.0 to 1.0 mg/L (ppm) range as CrVI. The HI3846 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents to perform approximately 100 tests.

- **Complete setup**
 - All required materials are included with the test kit, such as the color comparison cube and reagent packets.
- **High resolution**
 - Readings from 0.0 to 1.0 mg/L CrVI are determined to 0.2 mg/L resolution.
- **Replacement reagents available**
 - There is no need to buy a new kit when reagents are exhausted. The HI3846-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Chromium salts are widely used in industrial processes such as metal finishing and plating, as well as in the leather industry as a tanning agent, and in the manufacture of paints, dyes, explosives, and ceramics. Chromium may enter a water supply through the discharge of waste from these industries or from chromate-treated cooling waters, where it is frequently added for corrosion control. The hexavalent state of chromium, CrVI, is toxic to humans, animals, and aquatic life; it can produce lung tumors when inhaled and readily induces skin sensitization.

HI3847

Copper Test Kit

The HI3847 is a colorimetric chemical test kit that determines the copper concentration in samples within a 0 to 2.5 mg/L (ppm) range. The HI3847 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents to perform approximately 100 tests.

- **Complete setup**
 - All required materials are included with the test kit, such as the color comparison cube and reagent packets.
- **High resolution**
 - Readings from 0 to 2.5 mg/L are determined to 0.5 mg/L resolution.
- **Replacement reagents available**
 - There is no need to buy a new kit when reagents are exhausted. The HI3847-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Copper is an essential trace element in for plant metabolism as well as the human diet, with a daily requirement of around 2.0 mg. Due to its malleability, thermal and electrical conductivity, and corrosion resistance, copper is also used in a variety of industrial and technological applications. Copper may also be present in natural water and effluents due to widespread use to control biological growths in reservoirs and distribution pipes.



| Specifications | HI3846 Chromium (as CrVI) |
|-----------------------------|---|
| Type | colorimetric |
| Range | 0.0-1.0 mg/L (ppm) |
| Smallest Increment | 0.2 mg/L (ppm) |
| Method | diphenylcarbohydrazide |
| Number of Tests | 100 avg. |
| Ordering Information | HI3846 test kit comes with HI3846-0 reagent (100 packets) and color comparison cube. |
| Reagent | HI3846-100 chromium VI, 100 tests avg. |

| Specifications | HI3847 Copper |
|-----------------------------|---|
| Type | colorimetric |
| Range | 0.0-2.5 mg/L (ppm) |
| Smallest Increment | 0.5 mg/L (ppm) |
| Method | bicinchoninic acid |
| Number of Tests | 100 avg. |
| Ordering Information | HI3847 test kit comes with HI3847-0 reagent (100 packets) and color comparison cube. |
| Reagent | HI3847-100 copper, 100 tests avg. |

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