

Carbon Dioxide Test Kit

The HI3818 is a titration-based chemical test kit that determines the carbon dioxide concentration in three ranges: 0.0 to 10.0 mg/L CO₂, 0.0 to 50.0 mg/L CO₂, and 0 to 100 mg/L CO₂. The HI3818 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 110 tests.

- **Complete setup**
 - All required materials are included with the test kit, such as two sample beakers, reagent dropper bottles, and calibrated syringe.
- **High resolution**
 - Readings from 0.0 to 10.0 mg/L CO₂ are determined to 0.1 mg/L resolution.
 - Readings from 0.0 to 50.0 mg/L CO₂ are determined to 0.5 mg/L resolution.
 - Readings from 0 to 100 mg/L CO₂ are determined to 1 mg/L resolution.
- **Replacement reagents available**
 - There is no need to buy a new kit when reagents are exhausted. The HI3818-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Lakes and rivers naturally contain carbon dioxide concentrations less than 10 mg/L. However, stagnant or polluted water can generate large amounts of carbon dioxide due to organic or mineral decomposition. Higher amounts of carbon dioxide can make the water corrosive and toxic to aquatic organisms. Monitoring carbon dioxide levels is also critical in the manmade environment. Carbon dioxide is added to drinking water during the final stages of the purification process. In water softening systems, a delicate balance of carbon dioxide must be maintained to prevent corrosion or encrustation of pipes and storage tanks.



Specifications	HI3818 Carbon Dioxide (as CO ₂)
Type	titration
Range	0.0-10.0 mg/L (ppm) 0.0-50.0 mg/L (ppm) 0-100 mg/L (ppm)
Smallest Increment	0.1 mg/L (ppm) 0.5 mg/L (ppm) 1 mg/L (ppm)
Method	phenolphthalein
Number of Tests	100 avg.
Ordering Information	HI3818 test kit comes with 10 mL phenolphthalein indicator, 120 mL carbon dioxide reagent, 10 mL calibrated vessel, 50 mL calibrated vessel and calibrated syringe with tip.
Reagent	HI3818-100 Carbon Dioxide, 110 tests avg

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Chloride Test Kit

The HI3815 is a titration-based chemical test kit that determines the chloride concentration within two ranges: 0 to 100 mg/L Cl⁻ and 0 to 1000 mg/L Cl⁻. The HI3815 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 110 tests.

- **Complete setup**
 - All required materials are included with the test kit, such as the sample beaker, indicator and reagent solutions, and calibrated syringe.
- **High resolution**
 - Readings from 0 to 100 mg/L are determined to 1 mg/L resolution.
 - Readings from 0 to 1000 mg/L are determined to 10 mg/L resolution.
- **Replacement reagents available**
 - There is no need to buy a new kit when reagents are exhausted. The HI3815-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Chloride ions are one of the major inorganic anions in water and wastewater. Although high concentrations of chloride in water are not known to be toxic to humans, its regulation is mainly due to taste. It is essential to monitor chloride concentration in boiler systems to prevent damage of metal parts. In high levels, chloride can corrode stainless steel and be toxic to plant life.



Specifications	HI3815 Chloride (as Cl ⁻)
Type	titration
Range	0-100 mg/L (ppm) 0-1000 mg/L (ppm)
Smallest Increment	1 mg/L (ppm) 10 mg/L (ppm)
Method	mercuric nitrate
Number of Tests	110 avg.
Ordering Information	HI3815 test kit comes with 15 mL diphenylcarbazone indicator, 30 mL nitric acid solution, 120 mL mercuric nitrate solution, 50 mL calibrated vessel, 10 mL calibrated vessel, calibrated syringe with tip.
Reagent	HI3815-100 Chloride, 110 tests avg