

HI3814

Environmental Monitoring Test Kit

Ideal for Professionals and Students

The HI3814 is a chemical test kit that determines that uses titration and direct measurement to measure six parameters common in environmental testing: acidity, alkalinity, carbon dioxide, hardness, dissolved oxygen, and pH. The HI3814 is supplied with all of the necessary reagents and equipment to perform each analysis, and all reagents are individually available as they run out.

- **Complete setup**
 - All required materials are included with the test kit, such as the pH tester, sample beaker, indicator and reagent bottles and packets, and glass bottle for dissolved oxygen.
- **High resolution**
 - All tests provide a high resolution based on the expected range of measurement.
- **Replacement reagents available**
 - There is no need to buy a new kit when reagents are exhausted. The reagents for each parameter can be ordered individually.



Significance of Use

The six most important parameters in environmental applications can be monitored with this combination chemical test kit. They include: acidity, alkalinity, carbon dioxide, dissolved oxygen, hardness, and pH. This kit is ideal not only for professionals, but also for students studying environmental science, as it offers great performance and ease of use. HI3814 is equipped with all the accessories and reagents to perform over 100 tests for each parameter. The pHep®, our popular pH electronic tester, is included for your convenience. This small and easy to use pH meter will provide more accurate and reliable pH readings than conventional litmus paper. The pHep® also has the added benefit of introducing students to the use of a pH meter.

Specifications	HI3814 Environmental Monitoring Test Kit				
Test	Type	Range	Smallest Increment	Method	Number of Tests
Acidity (as CaCO ₃)	titration	0-100 mg/L (ppm) 0-500 mg/L (ppm)	1 mg/L (ppm) 5 mg/L (ppm)	methyl-orange/ phenolphthalein	110 avg.
Alkalinity (as CaCO ₃)	titration	0-100 mg/L (ppm) 0-300 mg/L (ppm)	1 mg/L (ppm) 3 mg/L (ppm)	phenolphthalein/ bromphenol blue	110 avg.
Carbon Dioxide	titration	0.0-10.0 mg/L (ppm) 0.0-50.0 mg/L (ppm) 0-100 mg/L (ppm)	0.1 mg/L (ppm) 0.5 mg/L (ppm) 1 mg/L (ppm)	phenolphthalein	110 avg.
Hardness (as CaCO ₃)	titration	0.0-30.0 mg/L (ppm) 0-300 mg/L (ppm)	0.3 mg/L (ppm) 3 mg/L (ppm)	EDTA	100 avg.
Oxygen, Dissolved	titration	0.0-10.0 mg/L (ppm)	0.1 mg/L (ppm)	modified Winkler	110 avg.
pH	electronic pH tester	0.0-14.0 pH	0.1 pH	-	life of the meter
Dimensions	440 x 330 x 100 mm (17.3 x 13.0 x 3.9")				
Ordering Information	HI3814 test kit includes all of the necessary reagents and accessories to perform over 100 tests for every parameter, electronic pH tester, hard carrying case and instructions.				
Reagents	HI3820-100 Acidity (as CaCO ₃), 110 tests avg.		HI3810-100 Dissolved Oxygen, 110 tests avg.		
	HI3811-100 Alkalinity (as CaCO ₃), 110 tests avg.		HI70004P pH 4.01 buffer solution, 20 mL sachets (25)		
	HI3818-100 Carbon Dioxide, 110 tests avg.		HI70007P pH 7.01 buffer solution, 20 mL sachets (25)		
	HI3812-100 Hardness, total (as CaCO ₃), 100 tests avg.		HI70010P pH 10.01 buffer solution, 20 mL sachets (25)		