

Environmental Monitoring

This combination chemical test kit allows the user to perform analysis of the six most important parameters to be monitored in the environment: acidity, alkalinity, carbon dioxide, dissolved oxygen, hardness and pH.

This kit is ideal not only for professionals, but also for students of Environmental Studies, since it offers great performance together with ease of use.

HI 3814 is equipped with all the accessories and reagents to perform over 100 tests of each parameter.

For measurements of pH, the kit offers our popular pH electronic tester, pHep®. This small and easy to use pH meter will provide more accurate and reliable pH readings than conventional litmus paper and has the added benefit of introducing students to the use of a pH meter.

The kit is supplied complete with a step-by-step instruction manual and a hard carrying case which makes it easy to perform tests in the field.

Reagents can be purchased individually (please refer to section V for a complete listing of spare reagents).



HI 3814 - Environmental Monitoring Test Kit

Parameter	Method	Range*	Smallest Increment	Chemical Method	Number of Tests
Acidity (as CaCO ₃)	Titration	0-100 mg/L 0-500 mg/L	1 mg/L 5 mg/L	Methyl-orange/ Phenolphthalein	approx. 110
Alkalinity (as CaCO ₃)	Titration	0-100 mg/L 0-300 mg/L	1 mg/L 3 mg/L	Phenolphthalein/ Bromphenol blue	approx. 110
Carbon Dioxide (as CO ₂)	Titration	0.0-10.0 mg/L 0.0-50.0 mg/L 0-100 mg/L	0.1 mg/L 0.5 mg/L 1 mg/L	Phenolphthalein	approx. 110
Hardness (as CaCO ₃)	Titration	0.0-30.0 mg/L 0-300 mg/L	0.3 mg/L 3 mg/L	EDTA	approx. 100
Oxygen, Dissolved	Titration	0.0-10.0 mg/L	0.1 mg/L	Modified Winkler	approx. 110
pH	Electronic pH tester	0.0-14.0 pH	0.1 pH	—	life of the meter

Other Information

Dimensions	440 x 330 x 100 mm (17.3 x 13.0 x 3.9")
Weight	2.3 kg (5.1 lb.)

* 1 mg/L = 1 ppm

For spare reagents, see section V. For accessories, see section U.