

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

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| 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.