

## PEWA Messtechnik GmbH

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## Dear Customer,

Thank you for choosing a Hanna Product.
Please read the instructions carefully before using the chemical test kit. It will provide you with the necessary information for correct use of the kit.
Remove the chemical test kit from the packing material and examine it carefully to make sure that no damage has occurred during shipping. If there is any noticeable damage, notify your Dealer or the nearest Hanna office immediately. Each kit is supplied with:

- HI 3880-0 pH 4.0-6.5 Reagent, 1 bottle with dropper ( 25 mL );
- 1 color comparator cube.

Note Any damaged or defective item must be returned in its original packing materials.

| Range | 4.0 to 6.5 as pH unit |
| :--- | :---: |
| Smallest Increment | 0.5 as pH unit |
| Analysis Method | Colorimetric |
| Sample Size | 5 mL |
| Number of Tests | 100 |
| Case Dimensions | $115 \times 102 \times 82 \mathrm{~mm}\left(4.5 \times 4.0 \times 3.2^{\prime \prime}\right)$ |
| Shipping Weight | $110 \mathrm{~g}(3.90 \mathrm{z})$. |

## scnicanaz and use

pH represents acidity or alkalinity of an aqueous solution and is proportional to the hydrogen-ion concentration of the solution. Under neutral conditions water is dissociated into the OH and $\mathrm{H}^{+}$ions in equal ratio and hence it has a pH of 7 . When bases or acids are added to a water solution they ionize, increasing the concentration of OH or $\mathrm{H}^{+}$, respectively. Thus solutions with a pH of 1-3 contain strong acids, whereas those with a pH of $4-6$ contain weak acids. Weak bases result in solutions of pH 8-10 and strong bases in pH of 11-13.

Examples of pH value for some liquids:
Liquid pH Value
sea water
7.8-8.2 gastric juices
1.7
milk $\quad 6.5-7$
soil $\quad 6.7$ (optimum for crops)

## CF:MCAL REACION

HI 3880-0 Hanna Reagent reacts in contact with the aqueous solution changing its color according to the hydrogenion concentration (pH) in the given range.

## insivenors

READ THE ENTIRE INSTRUCTIONS BEFORE USING THE KIT

- Note always shake the reagent bottle before use.
- Fill the color comparator cube with 5 mL of the sample.
- Add 3 drops of reagent H 3880-0.

$\times 3$

- Replace the cap and mix the solution by inverting the cube several times.

- Determine which color best matches the solution in the cube and record the result as pH unit.

- It is better to match the color with a white sheet at about 10 cm behind the color comparator cube.

Nate in case of a concentration of chlorine above 50 ppm require the H 3880 OTest Kit.
To measure pH in the $6.0-8.5$ range use the H 3881 pH 6.0-8.5 Test Kit.
To measure pH in the 7.5-10.0 range use the H 3886pH 7.5-10.0 Test Kit.

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Vogel's
Quantitative Chemical Analysis
5th Ed.
Longman Scientific \& Technical.

## HEAKH AND SATEY

The chemicals contained in this kit may be hazardous if improperly handled. Read Health and Safety Data Sheet before performing this test.

