

## Instruction Manual

# HI 3879 Iodine Test Kit



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Dear Customer,

Thank you for choosing a Hanna Product.

Please read the instruction sheet carefully before using the test kit. It will provide you with the necessary information for correct use of the kit. If you need additional information, do not hesitate to e-mail us at [tech@hannainst.com](mailto:tech@hannainst.com).

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 93718-0 Reagent, packets (100 pcs);
- 1 color comparator cube;
- 1 plastic pipette (3 mL).

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

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## SPECIFICATIONS

Range	0 to 5 mg/L (ppm)
Smallest Increment	1 ppm
Analysis Method	Colorimetric
Sample Size	5 mL
Number of Tests	100
Case Dimensions	230x60x68 mm (9.0x2.4x2.7")
Shipping Weight	143 g (5.0 oz.)

## SIGNIFICANCE AND USE

The disinfectant properties of iodine have led to its use as an alternative to chlorine and bromine.

However, its toxic and corrosive properties and the difficulties of dissolving it in water has limited a more wide-spread application. One of its most common application is in poultry industry process water.

Note: mg/L is equivalent to ppm (parts per million).

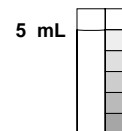
## CHEMICAL REACTION

The reaction between iodine and the reagent causes a reddish tint in the sample. The amount of color developed is proportional to the concentration of iodine present in the aqueous sample.

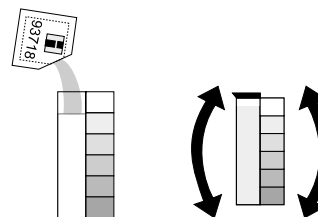
## INSTRUCTIONS

READ THE ENTIRE INSTRUCTIONS BEFORE USING THE KIT

- Fill the color comparator cube with 5 mL of sample (up to the mark).



- Add 1 packet of HI 93718-0 reagent, replace the cap and shake well.

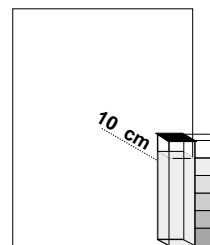


- Wait for 2 minutes to allow color to develop.



- Determine which color matches the solution in the vessel and record the result as mg/L (or ppm) of Iodine.

Note: It is better to match the color with a white sheet placed at about 10 cm (4") behind the comparator.



## REFERENCES

Adaptation of the *Standard Methods for the Examination of Water and Wastewater*, 18th edition, DPD method.

## HEALTH AND SAFETY

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