

# Zinc

## Test kit for the determination on zinc ions in surface water and sewage

**Method:**

Determination of zinc with zincon

**Measurement range:**

0.5–3 mg/L Zn<sup>2+</sup>

**Contents of test kit (\*refill pack):**

sufficient for 120 tests

16 mL Zn-1\*

12 mL Zn-2\*

27 mL Zn-3\*

2 screw-plug measuring glasses

1 slide comparator

1 colour chart

1 plastic syringe 1 mL

1 instructions for use\*

**Hazard warning:**

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

**Instructions for use:****a) colorimetric determination with color chart**

also refer to the pictogram on the back of the color chart

1. Pour a **1 mL** water sample into each of the measuring glasses using the plastic syringe.

Place a measuring glass on position A in the comparator.

**Only add the reagent to measuring glass B.**

2. Add **2 drops of Zn-1**, seal the glass and mix.
3. Add **2 drops of Zn-2**, seal the glass and mix.
4. Add **5 drops of Zn-3**, seal the glass and mix.
5. Open the glass after **1 min** and place it on position B in the comparator.
6. Slide the comparator until the colours match in the inspection hole on top. Check the measurement reading in the recess on the comparator reed. Mid-values can be estimated.
7. After use, rinse out both measuring glasses thoroughly and seal them.

**b) photometric determination**

Requisite accessories: reaction tubes 16 mm OD (REF 91680)

Reaction time: 1'00 min

Sample	Blank value
<ol style="list-style-type: none"><li>1. Rinse reaction tube 16 mm OD several times with sample and fill with <b>5 mL</b> sample.</li><li>2. Add <b>5 drops Zn-1</b>, close and mix.</li><li>3. Add <b>5 drops Zn-2</b>, close and mix.</li><li>4. Add <b>10 drops Zn-3</b>, close and mix.</li></ol>	<ol style="list-style-type: none"><li>1. Fill reaction tube 16 mm OD with <b>5 mL</b> sample.</li></ol>

After use, rinse out both reaction tubes thoroughly and seal them.

**Interferences:**

The following ions will not interfere:  $\leq 1000$  mg/L Cl<sup>-</sup>;  $\leq 500$  mg/L Ca<sup>2+</sup>, SO<sub>4</sub><sup>2-</sup>;  $\leq 200$  mg/L Cr(VI), PO<sub>4</sub><sup>3-</sup>;  $\leq 100$  mg/L Mg<sup>2+</sup>, Mo(VI);  $\leq 10$  mg/L Al<sup>3+</sup>, Cu<sup>2+</sup>, Ni<sup>2+</sup>;  $\leq 5$  mg/L Fe<sup>3+</sup>;  $\leq 0,5$  mg/L Cd<sup>2+</sup>, Pb<sup>2+</sup>, Mn<sup>2+</sup>;  $\leq 0,1$  mg/L Cr(III).

The method can be applied also for the analysis of sea water after dilution (1+9).

**Disposing of the samples:**

Information regarding disposal can be found in the safety data sheet. You can download the SDS from [www.mn-net.com/SDS](http://www.mn-net.com/SDS).

**Storage:**

Store the test kit in a cool (< 25 °C) and dry place.