

Aluminium

Test kit for performing colorimetric tests
on aluminium ions in surface water and sewage

Method:

Determination with chromazurol S

Measurement range:

0.10–0.50 mg/L Al³⁺

Contents of test kit (*refill pack):

sufficient for 50 tests

- 2 g Al-1*
- 12 mL Al-2*
- 28 mL Al-3*
- 1 measuring spoon 70 mm*
- 2 screw-plug measuring glasses
- 1 slide comparator
- 1 colour chart
- 1 plastic syringe 5 mL
- 1 instructions for use*

Hazard warning:

This test does not contain any harmful substances which must be specially labelled as hazardous.

Instructions for use:

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

1. Pour a 5 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 1 level measuring spoon of Al-1, seal the glass and shake.
3. Add 4 drops of Al-2, seal the glass and mix.
4. Add 10 drops of Al-3, seal the glass and mix
5. Open the glass after 15 min and place it on position B in the comparator.
6. Slide the comparator until the colors 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.

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

Disposing of the samples:

The used analysis specimens can be flushed down the drain with tap water and channelled off to the local sewage treatment works.

Interferences:

The following ions will not interfere:

≤ 1000 mg/L Ca²⁺, Cl⁻; ≤ 500 mg/L Mg²⁺; ≤ 100 mg/L Mn²⁺, Ni²⁺, Zn²⁺;
≤ 50 mg/L SO₄²⁻; ≤ 20 mg/L Mo(VI); ≤ 10 mg/L Fe³⁺, PO₄³⁻;
≤ 1 mg/L Cu²⁺; ≤ 0,1 mg/L Cr(III), Cr(VI)

Storage:

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

Product data and ordering information

REF	931 006 (931 206)
Type	colorimetric test kit (refill pack)
Range	0 · 0.10 · 0.15 · 0.20 · 0.25 · 0.30 · 0.40 · 0.50 mg/l (ppm) Al ³⁺
Sufficient for	50 determinations
Shelf life	at least 2 years
Sea water suitability	yes, after dilution (1+9)
Detectable with PF-12	no