

Fluoride

Reagent set for the photometric determination of fluoride ions in surface and drinking water

Method:

Photometric determination of fluoride with 1.8-dihydroxy-2-(4-sulphophenylazo)naphthalene-3.6-disulfonic acid (SPADNS)

Measurement range:

0.1–2.0 mg/L F⁻

Contents:

sufficient for 75–150 tests

3 x 30 mL F-1*

1 plastic syringe 5 mL

1 plastic syringe 1 mL

1 instruction for use

* Remove sealing before first use.

Hazard warning:

F-1 contains hydrochloric acid 10–25 %.

For further information ask for a safety data sheet.

Procedure:

Requisite accessories: reaction tubes 16 mm OD (REF 916 80)

Sample	Blank value
1. Rinse reaction tube 16 mm OD several times with sample and fill with 5 mL sample (5 mL syringe).	1. Fill reaction tube 16 mm OD with 5 mL distilled water (5 mL syringe).
2. Add 0.6 mL F-1 (1 mL syringe), close and mix.	2. Add 0.6 mL F-1 (1 mL syringe), close and mix.

Reaction time: 1'00 min

Measurement: Call up method

Perform measurement

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

Interferences:

The following ions will not interfere: < 1000 mg/L Cu²⁺; < 500 mg/L Ca²⁺, Ni²⁺, Zn²⁺; < 200 mg/L Fe³⁺; < 100 mg/L SO₄²⁻; < 50 mg/L Cr(III); < 20 mg/L Si(IV); < 10 mg/L Cr(VI); < 5 mg/L PO₄³⁻, Cl₂; < 0.1 mg/L Al³⁺.

Sea water requires a distillation.

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.

Storage:

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