

TESTING PRIOR KNOWLEDGE

Title of the activity: FLUORIDE IN WATER: Determining the fluoride concentration in a water sample

(File name is: B_FLUORIDE_Q_EN, which means that it is the English version of the test questions written for this Type "B" activity. The correct answers are shown in RED.)

Choose the correct answer.

1. What is the F^- content limit in tap water, according to European Union Water Supply Regulations?

- a. 1.8 mg/dm^3
- b. 1.5 mg/dm^3**
- c. 0.8 mg/dm^3
- d. 0.1 mg/dm^3

2. Which ions interfere significantly with the use of a fluoride ISE electrode?

- a. chloride ions
- b. bicarbonate ions
- c. CO_2 gas
- d. hydroxide ions**

3. Calculate the pF of a solution with $c(F^-) = 3.15 \times 10^{-3} \text{ mol/dm}^3$.

- a. 3.15
- b. 11.72
- c. 2.50**
- d. 3.67

4. The fluoride content in toothpaste...

- a. increases the risk of osteoporosis.
- b. helps to prevent tooth decay.**
- c. has no positive impact.
- d. causes bone cancer.

Note: answers are given in red. These need to be removed before the test is used.

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