

TESTING PRIOR KNOWLEDGE

Title of the activity: VITAMIN C: MEASURING HOW QUICKLY VITAMIN C TABLETS DISSOLVE

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

Choose only one answer.

- 1 Dissolve 24.822 g crystalline sodium thiosulfate in 1 dm³ water. What will be the concentration of the solution?
a. 0.1 mol/dm³
b. 0.05 mol/dm³
c. 0.0051 mol/dm³
d. 1.0 mol/dm³
- 2 Do you need to determine the exact concentration of sodium thiosulfate solution?
a. no
b. maybe, but not necessarily
c. only after one day after preparation
d. yes
- 3 1 cm³ of 0.05 mol/dm³ iodine solution is equivalent to 8.81 mg ascorbic acid
a. not true
b. if the solution has H⁺ ions
c. true
d. iodine does not react with ascorbic acid
- 4 Iodine is insoluble in water, but it will soluble if
a. we add some KIO₃
b. we add some KI
c. we warm the solution
d. we add HCl to the solution

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

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