When Removing Water Changes an Ester Model

Scoring guide · one credit per question · review written work against each rubric

When Removing Water Changes an Ester Model

Question 1

Choice (1)

Ester rises from 8 to 9 and water from 3 to 4, while each reactant falls by one unit.

Question 2

Only water decreases in the immediate reading. A net reaction change would also change acid, alcohol, and ester in the stated one-to-one ratios.

Question 3

In the forward change one unit of ester forms with one unit of water. The net gain of one in each product matches that ratio.

Question 4

A catalyst can speed both directions. It can shorten the time to reach equilibrium without changing the equilibrium amounts at the same conditions. A final amount comparison would be needed.