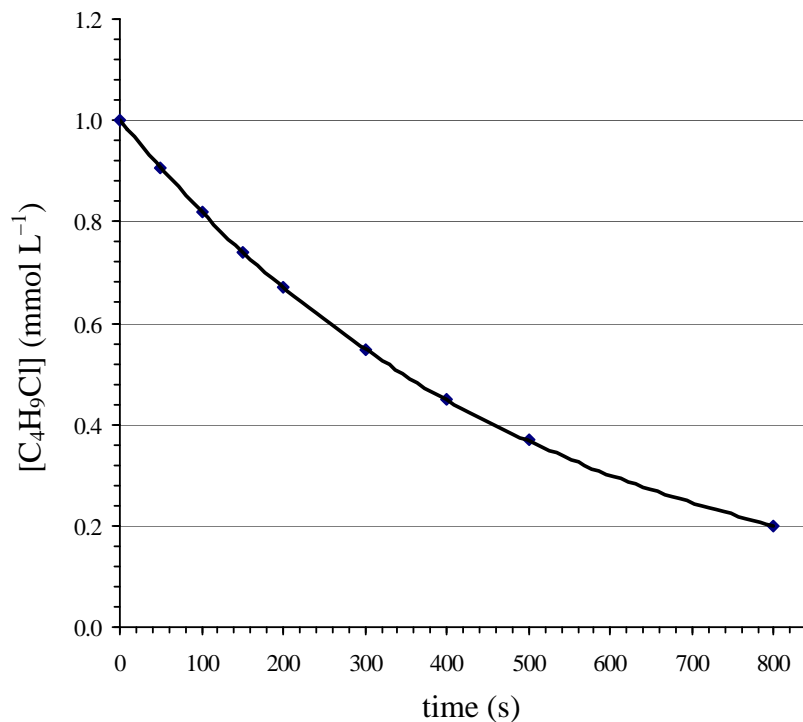
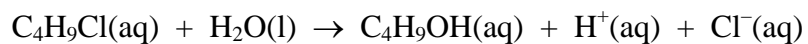


Marks
4

- The following chart shows the concentration of butyl chloride, C_4H_9Cl , as a function of time when it reacts with water according to the following equation:



Determine the instantaneous rate of reaction when $[C_4H_9Cl] = 1.0 \text{ mmol L}^{-1}$.

Answer:

Determine the instantaneous rate of reaction when $[C_4H_9Cl] = 0.5 \text{ mmol L}^{-1}$.

Answer:

THIS QUESTION CONTINUES ON THE NEXT PAGE

<p>What is the order of the reaction with respect to C_4H_9Cl?</p> <div data-bbox="129 230 1316 533" style="border: 1px solid black; height: 135px;"></div> <p style="text-align: right; border: 1px solid black; padding: 2px;">Answer:</p>	Marks 4
<p>How long would be required for the concentration of C_4H_9Cl to reach 0.01 mmol L^{-1}?</p> <div data-bbox="129 672 1316 974" style="border: 1px solid black; height: 135px;"></div> <p style="text-align: right; border: 1px solid black; padding: 2px;">Answer:</p>	