## Question #75130, Chemistry / General Chemistry / Completed

The reactant concentration in a first-order reaction was  $7.10\times10-2$  M after 10.0 s and  $2.10\times10-3$  M after 95.0 s. What is the rate constant for this reaction?

## **Solution:**

Rate =  $\Delta$  C /  $\Delta$   $\tau$  = (7.10 x 10-2 - 2.10 x 10-3) / (95.0 s - 10.0 s) = 8.1 x 10-4 mol/L·s

Answer: 8.1 x 10-4 mol/L·s

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