

Tutorial 1: Chemical Kinetics Answers

1. Consider the following concentration-time data for the reaction of iodide ion and hypochlorite ion (OCl^-). The products are chloride ion and hypiodite ion (OI^-).

Experiment	Time (s)	$[\text{I}^-]$	$[\text{OCl}^-]$	$[\text{OH}^-]$
1	0	2.40×10^{-4}	1.60×10^{-3}	1.00
	10	2.16×10^{-4}	1.36×10^{-3}	1.00
2	0	1.20×10^{-4}	1.60×10^{-3}	1.00
	10	1.08×10^{-4}	1.48×10^{-3}	1.00
3	0	2.40×10^{-4}	4.00×10^{-5}	1.00
	10	2.34×10^{-4}	3.40×10^{-5}	1.00
4	0	1.20×10^{-4}	1.60×10^{-3}	2.00
	10	1.14×10^{-4}	1.54×10^{-3}	2.00

- (a) Write a balanced equation for the reaction.
 (b) Determine the rate law, and calculate the value of the rate constant.
 (c) Does the reaction occur by a single-step mechanism? Explain.
 (d) Propose a mechanism that is consistent with the rate law, and express the rate constant in terms of the rate constants for elementary steps in your mechanism. (Hint: Transfer of an H^+ ion between H_2O and OCl^- is a rapid reversible reaction.)



- b) assume that $\text{rate} = \frac{-\Delta[\text{I}^-]}{\Delta t} = k[\text{OCl}^-]^a[\text{I}^-]^b[\text{OH}^-]^c$
 compare experiments 1 and 3:

$$\frac{2.4 \times 10^{-4} - 2.17 \times 10^{-4}}{2.4 \times 10^{-4} - 2.34 \times 10^{-4}} = \left(\frac{1.6 \times 10^{-3}}{4 \times 10^{-5}} \right)^a$$

$$4^a \approx 4$$

$$\therefore a = 1$$

compare experiments 1 and 2:

$$\frac{2.4 \times 10^{-4} - 2.17 \times 10^{-4}}{1.2 \times 10^{-4} - 1.08 \times 10^{-4}} = \left(\frac{2.4}{1.2} \right)^b$$

$$2^b \approx 2$$

$$\therefore b = 1$$

compare experiments 1 and 4:

$$\frac{2.4 \times 10^{-4} - 2.17 \times 10^{-4}}{1.2 \times 10^{-4} - 1.14 \times 10^{-4}} = 2 \left(\frac{1}{2} \right)^c$$

$$2 \left(\frac{1}{2} \right)^c \approx 4$$

$$\therefore c = -1$$

$$\text{rate} = \frac{-\Delta[\text{I}^-]}{\Delta t} = k \frac{[\text{OCl}^-][\text{I}^-]}{[\text{OH}^-]}$$

$$\frac{1.2 \times 10^{-4} - 1.08 \times 10^{-4}}{10} = k \frac{1.2 \times 10^{-4}(1.6 \times 10^{-3})}{1}$$

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Guillaume Favre



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Scientific and Technical Aerospace Reports ,1992 **Publications** United States. National Bureau of Standards,1969

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