

EXPERIMENTAL DATA (@ 25°C)

Example 0: $2 \text{H}_2\text{O}_2(aq) \rightarrow 2 \text{H}_2\text{O}(l) + \text{O}_2(g)$

Time (s)	$[\text{H}_2\text{O}_2], \text{ mol/L}$
0	8.80
20	7.80
40	6.89
60	6.11
80	5.42
100	4.81
120	4.26

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Example 1: $2 \text{H}_2\text{O}_2(aq) \rightarrow 2 \text{H}_2\text{O}(l) + \text{O}_2(g)$

Exp #	$[\text{H}_2\text{O}_2], \text{ mol/L}$	RATE ($\text{mol/L}\cdot\text{s}$)
1	8.00	0.048
2	4.00	0.024
3	2.00	0.012

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Example 2: $A \rightarrow Y + 3Z$

Exp #	[A], mol/L	RATE (mol/L.s)
1	0.100	0.060
2	0.200	0.240
3	0.050	0.015

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Example 3: $\text{NO}_2(g) + \text{CO}(g) \rightarrow \text{NO}(g) + \text{CO}_2(g)$

Exp #	$[\text{NO}_2], \text{ mol/L}$	$[\text{CO}], \text{ mol/L}$	RATE ($\text{mol/L}\cdot\text{s}$)
1	0.220	0.200	0.084
2	0.440	0.200	0.336
3	0.440	0.400	0.336