

1. T, T, F, T, F, F, T, T, T, T
2. 2
3
3. 1.5×10^{-4}
4. 0.110
56.0%
5. 3
3
1
exothermic
6. $-\frac{1}{2} \frac{\Delta[\text{NO}]}{\Delta t} = -\frac{\Delta[\text{O}_2]}{\Delta t} = \frac{1}{2} \frac{\Delta[\text{NO}_2]}{\Delta t}$
7. 40,100
8. rate = $k[\text{C}_2\text{H}_5\text{Cl}]$
0.32
9. -90.7
10. 0.0903
11. $\frac{P(\text{HCl})^4}{P(\text{SiCl}_4) P(\text{H}_2\text{O})^2}$
12. 0.00390