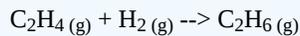


### 1.10.1.1: Practice Effects on Rate

#### Exercise 1.10.1.1.1



Which of the following will increase the rate of the reaction above? (Choose all that apply.)

- a. adding  $\text{H}_2$  gas
- b. adding  $\text{C}_2\text{H}_6$  gas
- c. adding a catalyst
- d. decreasing the temperature

#### Answer

a and c.

#### Exercise 1.10.1.1.1

According to collision theory, why would increasing the temperature of a reaction increase the reaction rate? (Choose all that apply.)

- a. It would increase the space between molecules.
- b. It would increase the energy of the collisions between molecules.
- c. It would increase the frequency of collisions between molecules.
- d. It would cause collisions to have a more favorable orientation.

#### Answer

b and c.

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