



### Endothermic

An endothermic process absorbs energy.

### Exothermic

An exothermic process releases energy.

### Catalyst

A catalyst is a chemical used to speed up a process.

### Mole

A mole is an Avogadro's number of anything.

### Avogadro's Number

Avogadro's number is the number of atoms in exactly 12.00 grams of carbon-12.

$$N = 6.022 \times 10^{23}$$

### Organic Chemistry

The study of compounds made of mostly carbon and hydrogen.

### Hydrocarbons

Organic compounds consisting of carbon and hydrogen only

#### Saturated

alkanes – single bond chains

#### Unsaturated

alkenes – double bond chains

alkynes – triple bond chains

aromatics – benzene ring

### Organic Prefixes

1 carbon = meth -

2 carbon = eth -

3 carbon = prop -

4 carbon = but -

5 carbon = pent -

6 carbon = hex -

7 carbon = hept -

8 carbon = oct -

9 carbon = non -

10 carbon = dec -

### Checkup #86

Write names for the following compounds.

- \_\_\_\_\_ 1. KOH
- \_\_\_\_\_ 2. N<sub>2</sub>O<sub>5</sub>
- \_\_\_\_\_ 3. SrS
- \_\_\_\_\_ 4. Ca(OH)<sub>2</sub>
- \_\_\_\_\_ 5. H<sub>2</sub>O
- \_\_\_\_\_ 6. P<sub>3</sub>N<sub>5</sub>
- \_\_\_\_\_ 7. Li<sub>2</sub>O
- \_\_\_\_\_ 8. SiI<sub>4</sub>
- \_\_\_\_\_ 9. NH<sub>4</sub>NO<sub>3</sub>
- \_\_\_\_\_ 10. CF<sub>4</sub>

### Checkup #87

Write formulas for the following compounds.

- \_\_\_\_\_ 1. ammonia
- \_\_\_\_\_ 2. calcium hydroxide
- \_\_\_\_\_ 3. sodium chloride
- \_\_\_\_\_ 4. silicon dioxide
- \_\_\_\_\_ 5. lithium hydride
- \_\_\_\_\_ 6. carbon dioxide
- \_\_\_\_\_ 7. sodium fluoride
- \_\_\_\_\_ 8. sulfur trioxide
- \_\_\_\_\_ 9. lead (II) nitrate
- \_\_\_\_\_ 10. carbon monoxide

### Checkup #88

Write the correct numbers of atoms.

- KMnO<sub>4</sub>** \_\_\_\_\_ potassium atoms  
\_\_\_\_\_ oxygen atoms  
\_\_\_\_\_ manganese atoms