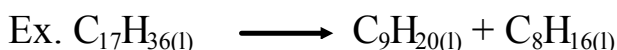


Quiz - Hydrocarbons

Reactions

cracking - reaction in which hydrocarbons are broken into smaller fragments

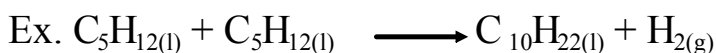
- this reaction occurs in the absence of air, and **with a catalyst or heat**, to speed up the reaction.



***atoms must be conserved!**

reforming - reaction in which large molecules are formed from smaller ones

- this reaction normally occurs with the help of a catalyst or heat

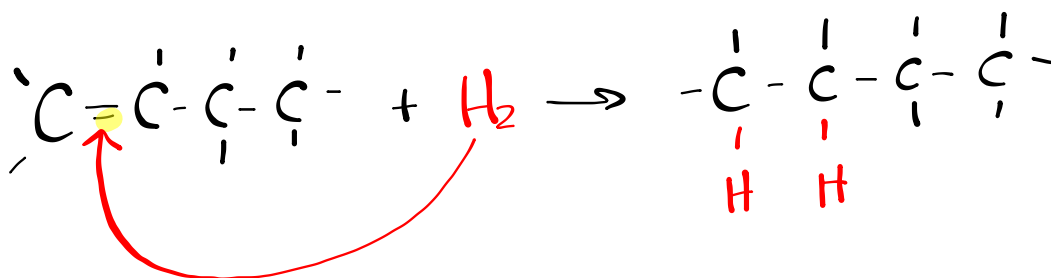


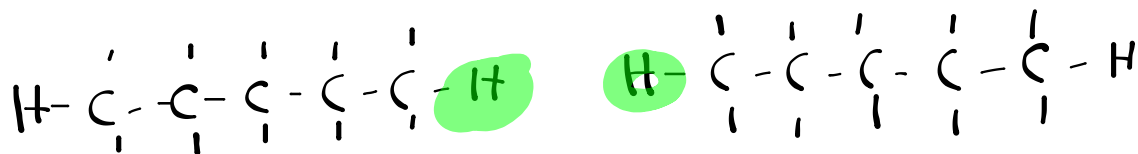
combustion - a reaction between a compound and oxygen to produce the most common oxides.



↑
"burning"

addition (hydrogenation) reaction - a reaction in which an unsaturated molecule reacts with hydrogen (diatomic).





Additional Questions

For each of the following, draw a structural diagram equation, name the products and classify the equation:

1. Methylbenzene is burned in a waste disposal plant.
2. 3-methyl-1-butyne + excess hydrogen
3. Propane and butane are reacted in the presence of hydrogen to make several gasoline molecules.