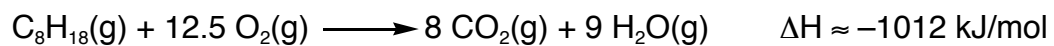


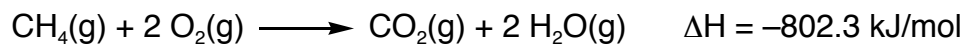
Quiz 3

1. a. (10 pts) Determine the amount of energy released when 2700 g of gasoline (C_8H_{18}), approximately 1 gallon, is burned.



- b. (10 pts.) Determine the mass of CO_2 released during the reaction.

2. (10 pts.) Determine the mass of CO_2 produced when enough CH_4 is burned to release the same amount of energy as released in part 1.a.



3. (10 pts.) Compare the two fuels. When the same amount of energy is released by each reaction, which fuel produces more CO₂? Explain.

4. (10 pts.) List three other things you might consider in addition to the amount of CO₂ a fuel produces when choosing a fuel for a vehicle that you are producing.