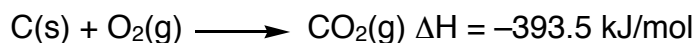


Group Work

CHEM 0101: Introduction to Chemistry

Activity 16: Energy from Combustion

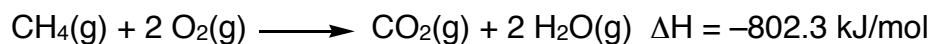
1. The combustion of graphite (a form of carbon) releases 394 kJ of energy per mole of graphite burned. (1 kJ = 0.00028 kWh)



Determine the amount of energy released by the combustion of 6.0 g of carbon.

2. Determine the amount (g) of CO₂ produced from the combustion of 6.0 g of carbon.

3. Determine the amount (g) of CO₂ released when methane (CH₄) is burned to generate the same amount of energy as in part 1.



4. For the same amount of energy, which reaction releases less CO₂, the combustion of methane or the combustion of CH₄.