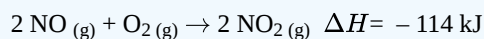


1.7.7.1: Practice Stoichiometry Part 3

Exercise 1.7.7.1.1

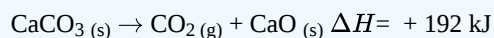


Is the reaction above endothermic or exothermic? What is the energy change when 0.633 moles of NO react?

Answer

Exothermic. Energy change is -36.1 kJ , meaning that 36.1 kJ of energy is released.

Exercise 1.7.7.1.1



Is the reaction above endothermic or exothermic? What is the energy change when 2.87 grams of CaCO_3 react?

Answer

Endothermic. Energy change is $+5.51 \text{ kJ}$, meaning that 5.51 kJ of energy is absorbed.

Exercise 1.7.7.1.1

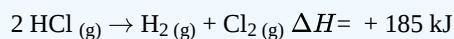


Is the reaction above endothermic or exothermic? What is the energy change when 26.7 grams of SO_3 are produced?

Answer

Exothermic. Energy change is -132 kJ , meaning that 132 kJ of energy is released.

Exercise 1.7.7.1.1



Is the reaction above endothermic or exothermic? What is the energy change when 489 grams of HCl react?

Answer

Endothermic. Energy change is $+1240 \text{ kJ}$, meaning that 1240 kJ of energy is absorbed.