

Module 4 - Engaging Activities

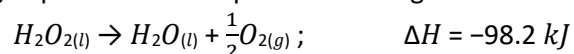
Evaluate the following. Show your solution.

1. How many joules are required to heat 250 grams of liquid water from 0 to 100 °C
2. How many joules are required to melt 100 grams of water?
3. How many joules are required to boil 150 g of water?
4. How many joules are required to heat 200 g of water from 25 °C to 125 °C

Performance Tasks

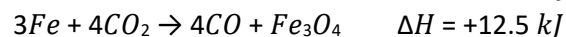
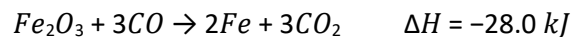
Evaluate the following. Show your solution.

1. Hydrogen peroxide decomposes according to the following thermochemical reaction:



Calculate the change in enthalpy ΔH , when 1.00 g of hydrogen peroxide decomposes.

2. Consider the following thermochemical equations:



Calculate the value of ΔH (in kJ) for:

