

Answer on Question #60093 – Chemistry – Physical Chemistry

Question:

6 43.4 kcal of heat is required to decompose 2 mole of mercury(II) oxide according to the equation $2\text{HgO}(s) \rightarrow 2\text{Hg}(l) + \text{O}_2(g)$. What quantity of energy is required to decompose 10.8 g of HgO? (Hg = 200.59, O = 16)

2.17 kcal

1.09 kcal

468.72 kJ

0.545 kJ

7 Which of the following is not a state function?

enthalpy

entropy

work

free energy

8 The zeroth law of thermodynamics is based on the concept of

entropy

Conservation of energy

absolute zero temperature

thermodynamic equivalence

9 A process in which no heat is allowed to enter or leave a system is

termed –

Isothermal

Adiabatic

isobaric

Isochoric

10 A process taking place at constant pressure is termed –

Isothermal

Adiabatic

Isobaric

Isochoric

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