NOVA SCOTIA CHEMISTRY 12 · UNIT A

Thermochemical Changes — Practice Test

Nova Scotia Chemistry 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Two steps have enthalpy changes of -80 and -120 kilojoules per mole. The overall enthalpy change, in kilojoules per mole, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Heat of 6300 joules warms 150 grams of water. Using 4.2 joules per gram per degree Celsius, the temperature rise, in degrees Celsius, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Heat of 12600 joules warms 150 grams of water. Using 4.2 joules per gram per degree Celsius, the temperature rise, in degrees Celsius, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Heat of 6300 joules warms water by 5 degrees Celsius. Using 4.2 joules per gram per degree Celsius, the mass of water, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Heat of 8400 joules warms water by 20 degrees Celsius. Using 4.2 joules per gram per degree Celsius, the mass of water, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A fuel sample of 10 grams releases 300 kilojoules when burned. The energy released per gram, in kilojoules per gram, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A fuel sample of 25 grams releases 1000 kilojoules when burned. The energy released per gram, in kilojoules per gram, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The standard enthalpy of formation is the enthalpy change when**

- A one mole of a compound forms from its elements
- B one mole burns
- C any reaction occurs
- D a solution forms

Understand It with Pulse | Flag a mistake

9 **A reaction that feels cold to the touch is**

- A exothermic
- B endothermic
- C neutral
- D catalytic

Understand It with Pulse | Flag a mistake

10 **Calorimetry assumes no heat is lost to the**

A reactants

B products

C surroundings

D water only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	-200	**5.**	100	**9.**	B
2.	10	**6.**	30	**10.**	C
3.	20	**7.**	40		
4.	300	**8.**	A		

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