QUEBEC CHEMISTRY, SECONDARY V · UNIT B

Energy Changes in Reactions — Practice Test

Quebec Chemistry, Secondary V • 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 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 500 grams of water warms by 2 degrees Celsius. The heat absorbed, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 100 grams of water absorbs 4190 joules. Its temperature rise, in degrees Celsius, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A calorimeter is insulated to reduce heat loss to the**

- A reactants
- B products
- C thermometer
- D surroundings

Understand It with Pulse | Flag a mistake

4 **A catalyst lowers the activation energy and is not**

- A consumed in the reaction
- B changed at all ever
- C heated
- D dissolved

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5 **A reaction can be built from two steps with enthalpy changes 200 kilojoules per mole and -350 kilojoules per mole. By Hess law the overall enthalpy change, in kilojoules per mole, is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **The specific heat capacity of a substance is the heat needed to raise one gram by one**

A atmosphere

B degree Celsius

C mole only

D litre

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7 **The standard enthalpy of formation of an element in its standard state is**

A negative always

B positive always

C infinite

D zero

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8 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 200 grams of water warms by 10 degrees Celsius. The heat absorbed, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 200 grams of water absorbs 8380 joules. Its temperature rise, in degrees Celsius, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 300 grams of water warms by 10 degrees Celsius. The heat absorbed, in joules, is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	4190	**5.**	-150	**9.**	10
2.	10	**6.**	B	**10.**	12570
3.	D	**7.**	D		
4.	A	**8.**	8380		

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