NOVA SCOTIA CHEMISTRY 12 · UNIT A · 5 QUESTIONS

Thermochemical Changes — Practice Test

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 **Clear glass of water on a plain white surface. A mass of 250 grams of water is heated by 10 degrees Celsius. Using a specific heat capacity of 4.2 joules per gram per degree Celsius, the heat absorbed, in joules, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A mass of 50 grams of water is heated by 20 degrees Celsius. Using a specific heat capacity of 4.2 joules per gram per degree Celsius, the heat absorbed, in joules, is**

ANSWER

Understand It with Pulse | Flag a mistake

3 **900 kilojoules of heat are released when 3 moles of a fuel burn. The molar enthalpy of combustion, in kilojoules per mole, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **1000 kilojoules of heat are released when 4 moles of a fuel burn. The molar enthalpy of combustion, in kilojoules per mole, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Two steps have enthalpy changes of -200 and -200 kilojoules per mole. The overall enthalpy change, in kilojoules per mole, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 10500
2. 4200
3. -300
4. -250
5. -400

© 2026 Brett Robbins. All Rights Reserved.