

Medical Cold Pack Lab Report Details

A communication mark out of 10 will be assigned based on appropriate use of language, proper use of all units, answer reported at correct number of significant digits.

Title page: (2 pts)

Hypothesis: (2 pts)

Materials: Be sure to list your unknown #. (5 pts)

Procedure: Be sure to follow format correctly! (10 pts)

Safety Considerations: Concentrate on the “Acute and Chronic effects on humans” of all 5 chemicals. (5 pts)

Observations: If you notice anything occurring that may affect the accuracy of your readings, include it here. (3 pts).

Calculations: Show all calculations necessary to determine the identity of your unknown. Use proper units on all numbers. Significant digits must be observed. Identify your unknown. (3 pts)

Discussion:

(1) Calculate a % difference between your experimental mass enthalpy and the accepted value from the textbook. (1 pt)

(2) If some of the room’s heat were transferred to the water in the calorimeter, would your calculated enthalpy be too high or too low? (1 pt) Explain with a calculation. (3 pts)

(3) If some salt were accidentally spilled as it was transferred from the balance to the calorimeter, but you didn’t know it happened, would your calculated enthalpy be too high or too low? (1 pt) Explain with a calculation. (3 pts)

Total: 39 (Application)