

Guided-Inquiry Design and Procedure

Form a working group with other students and discuss the following questions.

1. Review the calorimetry procedure:
 - a. What data is needed to calculate the enthalpy change for a reaction?
 - b. Identify the variables that will influence the experimental data.
 - c. What variables should be controlled (kept constant) during the procedure?
 - d. The independent variable in an experiment is the variable that is changed by the experimenter, while the dependent variable responds to or depends on the changes in the independent variable. Name the independent and dependent variables in a calorimetry experiment to determine the molar heat of solution.
 - e. Discuss the factors that will affect the precision of the experimental results.
2. One pair of students in the group should study the three solids in Set A, while the other pair studies Set B.
3. Working collaboratively with the general procedure provided in the *Introductory Activity*, design and carry out experiments to determine the heat of solution for each solid. Be sure to review all safety precautions with your instructor before starting.
4. Extrapolating from the information collected, predict which solid(s) could be used in an effective hand warmer meeting the following requirements:
 - The hand warmer must contain 10 g of an ionic solid and an inner pouch filled with 40 mL of water.
 - Activating the hand warmer must increase the temperature of the resulting solution by at least 20 °C.
 - The solid should be nontoxic, safe for the environment, and economical.
5. Review the cost information shown below and consult the MSDS for each potential hand warmer. Propose the optimum design for the most cost-effective hand warmer that is nontoxic and least harmful to the environment.

Solid	NH_4Cl	CaCl_2	LiCl	NaCH_3CO_2	Na_2CO_3	NaCl
Cost (\$)/Kilogram	21.90	10.80	68.30	27.30	5.95	4.25

Opportunities for Inquiry

Instant cold packs are used to treat sports and other injuries when ice is unavailable. Research the properties of commercial cold packs and select a "cold pack solid" from among the solids provided in this activity. Propose and test a design (quantity of solid and volume of water) for an effective instant cold pack.

Guided Inquiry Design And Procedure Answers

G Psacharopoulos



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