

Experiment 25 Calorimetry

A set of nested coffee cups is a good constant pressure calorimeter.

- To determine the specific heat of a metal.
- To determine the enthalpy of neutralization for a strong acid-strong base reaction
- To determine the enthalpy of solution for the dissolution of a salt.

negative for exothermic reactions and positive for endothermic reactions.

The following techniques are used in the Experimental Procedure:



OBJECTIVES















Accompanying all chemical and physical changes is a transfer of heat (energy); heat may be either evolved (exothermic) or absorbed (endothermic). A calorimeter is the laboratory apparatus that is used to measure the quantity and direction of heat flow accompanying a chemical or physical change. The heat change in chemical reactions is quantitatively expressed as the enthalpy (or heat) of reaction, ΔH, at constant pressure. ΔH values are

Three quantitative measurements of heat are detailed in this experiment measurements of the specific heat of a metal, the heat change accompanying an acid-base reaction, and the heat change associated with the dissolution of a salt in water. INTRODUCTION

Altholius are often expressed as Limal or ks/mal

The energy (heat, expressed in joules, J) required to change the temperature of one gram of a substance by 1°C is the specific heat! of that substance:

specific heat
$$\left(\frac{J}{g \cdot {}^{\circ}C}\right) = \frac{\text{energy }(J)}{\text{mass }(g) \times \Delta T \, ({}^{\circ}C)}$$
 (25.1)

or, reasoning for energy,

energy
$$(J) = \text{specific heat}\left(\frac{J}{g^{-\alpha}C}\right) \times \text{mass}(g) \times \Delta T(^{\alpha}C)$$
 (25.2)

ΔT is the temperature change of the substance. Although the specific heat of a substance changes slightly with temperature, for our purposes, we assume it is constant over the temperature changes of this experiment.

The specific heat of a metal that does not react with water is determined by (1) heating a measured mass of the metal, M, to a known (higher) temperature; (2) placing it into a measured amount of water at a known (lower) temperature; and (3) measuring the final equilibrium temperature of the system after the two are combined.

Specific Heat of a Metal.

[&]quot;The specific heat of a substance is an intensive property (independent of sample size), as are its melting point, bailing point, density, and so on.

Chemistry Principles Experiment 10th Edition Answers

M Woodhall

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