

## Lab Session 9, Experiment 8: Calorimetry, Heat of Reaction

**Specific heat** is an intensive property of a single phase (solid, liquid or gas) sample that describes how the temperature of the sample changes as it either absorbs or loses heat energy. Specific heat is generally a function of temperature, but, to a good approximation, it can be treated as being constant for a single phase over a moderate temperature range. The table below lists the specific heats at 25°C of liquid water and selected metal solids.

The Zeroth Law of Thermodynamics states: "If two samples of matter, initially at different temperatures ( $T_H$  and  $T_C$ , respectively), are placed in thermal contact, heat will be lost by the hotter sample ( $T_H$ ) and gained by the cooler one ( $T_C$ ). This exchange of heat will take place until both samples achieve the same final temperature,  $T_F$ , so that  $T_H > T_F > T_C$ ." The First Law of Thermodynamics states: "During heat exchange (or, as we shall see, during a chemical reaction), heat is neither created nor destroyed." Thus, heat lost equals heat gained, if the heat exchange can be sufficiently insulated from the surroundings so that not very much heat escapes to the surroundings. A vessel that provides adequate heat insulation from its surroundings, and in which temperature changes are measured in order to determine specific heats (or heats of chemical reactions) is called a **calorimeter**. A perfect calorimeter absorbs no heat from the solution that it

contains, nor loses any heat to the surroundings. No calorimeter is perfect, however. A typical calorimeter used in freshman chemistry labs is made of two nested Styrofoam cups, and looks like the one shown in Figure 9.1.

If we place  $m_{\text{metal}}$  grams of a hot metal, at a Celsius temperature  $T_H$ , into a nearly perfect calorimeter, along with  $m_{\text{water}}$  grams of water, at a lower Celsius temperature  $T_C$ , then the metal and the water will thermally equilibrate at a final intermediate Celsius temperature,  $T_F$ .

Since the heat lost by the metal is equal to the heat gained by the water within the calorimeter, the following equation holds ( $m$  is in the units g,  $T$  is in the units °C and sp ht is in the units J/g °C):

$$[(m_{\text{metal}}) \times (T_H - T_F) \times (\text{sp ht}_{\text{metal}})] = [(m_{\text{water}}) \times (T_F - T_C) \times (\text{sp ht}_{\text{water}})] .$$

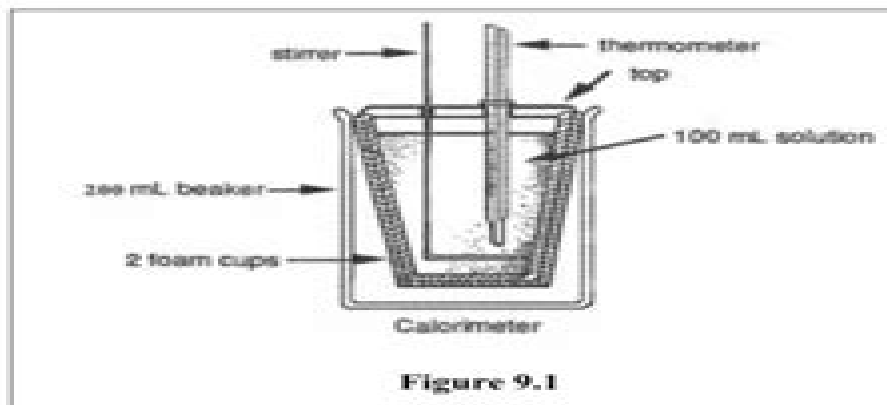


Figure 9.1

# Heat Effects And Calorimetry Lab Conclusions

**Jessica J Manson**



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