

change of the surrounding water. $\Delta H_{\text{metal}} = -\Delta H_{\text{water}}$ If the water temperature increases, then the metal must have released heat. We can find the enthalpy change of the metal with the formula: $\Delta H_{\text{metal}} = -m_{\text{water}} \cdot C_{\text{water}} \cdot \Delta T_{\text{water}}$

Check-for-understanding question:

1. When 25 mL of water containing 0.85 mol HCl is mixed with 40 mL of water containing .05 mol KOH in a calorimeter (with initial temperature 23 °C), the temperature of the solution increases to 25.5 °C. How many kilojoules (kJ) of heat are released by the acid-base reaction?

$$\begin{aligned}\Delta H_{\text{water}} &= m_{\text{water}} \times C_{\text{water}} \times \Delta T_{\text{water}} \\ &= 65 \text{ g} \times 4.18 \text{ J/g}^\circ\text{C} \times 2.5^\circ\text{C} \\ &= 679.25 \text{ J} = .67925 \text{ kJ}\end{aligned}$$

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