

Enthalpy and thermal energy (Calorimetry)

Related video: 09 – Enthalpy and thermal energy

Two unknown solutions, initially at room temperature, are mixed. After the solutions react with each other, the temperature in the calorimeter rises by $3.2\text{ }^{\circ}\text{C}$. The total mass of the two solutions together is 420 grams. Find the change in enthalpy during the reaction.

Assuming that both solutions contain mostly water and that the mass of the solutes is small, use the specific heat capacity of water.

