

Thermochemistry Formula Sheet:

1st Law of Thermodynamics: Endothermic: $q = +\cancel{L}$ Exothermic: $q = -\cancel{L}$	Internal Energy: $\Delta U = q + W$
Work Done By/On a Gas: Work done by the system: $W = -\cancel{L}$ Work done on the system: $W = +\cancel{L}$	$W = -P \Delta V$ $1 L \cdot atm = 101.3 \text{ Joules}$
Specific Heat Capacity: $J/(g \cancel{L} ^\circ C) \cancel{L}$	$C_s = \frac{q}{m \Delta T}$
Molar Heat Capacity: $J/(mol ^\circ C)$	$C_M = \frac{q}{n \Delta T}$
Heat Capacity: $J/^\circ C$	$C_n = \frac{q}{\Delta T}$
Calorimetry - Temperature Change:	$q = mc \Delta T$ $C_{H_2O} = 4.184 \frac{J}{g ^\circ C} \quad C_{ice} = 2.09 \frac{J}{g ^\circ C} \quad C_{steam} = 2.03 \frac{J}{g ^\circ C}$
Calorimetry - Phase Change:	$q = m \Delta H \quad q = n \Delta H$ $H_2O: \Delta H_{fus} = 334 J/g \quad \Delta H_{fus} = 6.01 kJ/mol$ $H_2O: \Delta H_{vap} = 2260 J/g \quad \Delta H_{vap} = 40.7 kJ/mol$
Final Temperature of a Mixture: $T_A \rightarrow$ Initial Temp. of Substance A $T_B \rightarrow$ Initial Temp. of Substance B	$-q_A = q_B$ $-m_A C_A (T_f - T_A) = m_B C_B (T_f - T_B)$ Note: This equation will work if there are no phase changes.
Coffee Cup Calorimeter:	$\Delta H^\circ_{rxn} = \frac{q_{rxn}}{n} \quad q_{rxn} = -q_{H_2O}$
Enthalpy Change:	

Thermochemistry And Calorimetry Foundations Of Chemistry

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Thermochemistry And Calorimetry Foundations Of Chemistry:

Foundations of Chemistry- Principles and Reactions Dr. J. Uma Rani, Dr. M. Prashanthi, Jyothi Ganti, 2024-10-02

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For students, DIY hobbyists, and science buffs who can no longer get real chemistry sets, this one-of-a-kind guide explains how to set up and use a home chemistry lab with step-by-step instructions for conducting experiments in basic chemistry, not just to make pretty colors and stinky smells but to learn how to do real lab work. Purify alcohol by distillation. Produce hydrogen and oxygen gas by electrolysis. Smelt metallic copper from copper ore; you make yourself. Analyze the makeup of seawater, bone, and other common substances. Synthesize oil of wintergreen from aspirin and rayon fiber from paper. Perform forensics tests for fingerprints, blood, drugs, and poisons, and much more. From the 1930s through the 1970s, chemistry sets were among the most popular Christmas gifts, selling in the millions. But two decades ago, real chemistry sets began to disappear as manufacturers and retailers became concerned about liability. The *Illustrated Guide to Home Chemistry Experiments* steps up to the plate with lessons on how to equip your home chemistry lab, master laboratory skills, and work safely in your lab. The bulk of this book consists of 17 hands-on chapters that include multiple laboratory sessions on the following topics: Separating Mixtures, Solubility, and Solutions.

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Physical Properties and Thermodynamic

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