

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 Formula Sheet

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Thermochemistry Formula Sheet:

MCAT General Chemistry Review Princeton Review (Firm),2010 The MCAT is a test of more than just the facts about basic physical and biological sciences it s an in depth rigorous examination of your knowledge of scientific concepts and principles as well as your critical thinking and writing skills With the Princeton Review s subject specific MCAT series you can focus your review on the MCAT topics that are most challenging to you Each book in the series contains the most in depth coverage of subjects tested on the MCAT Each chapter in MCAT General Chemistry includes Full color illustrations charts and diagrams Examples of general chemistry questions and their solutions worked out step by step Chapter Review Quizzes and answers A real MCAT style practice passage with questions and answers Bulleted chapter summaries for quick review MCAT General Chemistry Review also includes A complete glossary of general chemistry terms A general chemistry formula sheet

A Contribution to the Thermochemistry of Organic Compounds Endre Berner,1926 **Encyclopedia of chemical technology. 13. Stilbite to thermochemistry** Raymond Eller Kirk,Donald F. Othmer,1954 *The Mathematics of Combustion* John D. Buckmaster,1985-09-04 Explores the rapidly changing area of combustion in which asymptotic methods and bifurcation theory have made a significant impact Cracking the PCAT 2012-2013 Princeton Review,2011 Most people apply to pharmacy school after completing a number of years of undergraduate study and all prospective pharmacists must take the PCAT to obtain admission to a pharmacy college The PCAT tests both general aptitude and specific science topics and includes multiple choice questions as well as writing sections 800 pp AP® Chemistry Crash Course, For the 2020 Exam, Book + Online Adrian Dingle,2020-02-04 This Crash Course book is designed to be an aide for someone working to pass the AP advanced placement test in Chemistry *Encyclopedia of Chemical Technology: Stillbite to thermochemistry* Raymond Eller Kirk,Donald Frederick Othmer,1947 **Chemical Engineering Catalog** ,1922

Scientific and Technical Aerospace Reports ,1963 **Archiv for Mathematik Og Naturvidenskab** ,1926

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