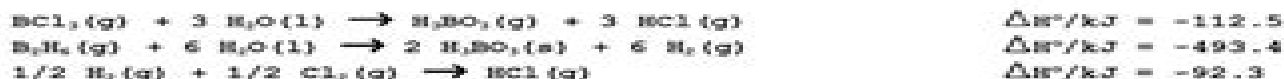


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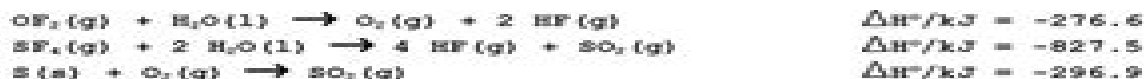
Please check back for the answers. I will repost this document with the answers at a later date

1. Given the following equations and ΔH° values, determine the heat of reaction (kJ) at 298 K for the reaction:



Answer: -1376 kJ

2. Given the following equations and ΔH° values, determine the heat of reaction (kJ) at 298 K for the reaction:



Answer: -319.5 kJ

3. Determine $\Delta H^\circ/\text{kJ}$ for the following reaction using the listed enthalpies of reaction:

Hess Law Problems With Answers

**Richard M. Felder, Ronald W.
Rousseau, Lisa G. Bullard**



Hess Law Problems With Answers:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step by step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid base reactions, which often persists through working with acid base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields.

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Classical and Quantum Thermal Physics R. Prasad,2016-11-02 Covering essential areas of thermal physics this book includes kinetic theory classical thermodynamics and quantum thermodynamics The text begins by explaining fundamental concepts of the kinetic theory of gases viscosity conductivity diffusion and the laws of thermodynamics and their applications It then goes on to discuss applications of thermodynamics to problems of physics and engineering These applications are explained with the help of P V and P S H diagrams where necessary and are followed by a large number of solved examples and unsolved exercises The book includes a dedicated chapter on the applications of thermodynamics to chemical reactions Each application is explained by taking the example of an appropriate chemical reaction where all technical terms are explained and complete mathematical derivations are worked out in steps starting from the first principle

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Problem Exercises for General Chemistry George Gilbert Long,Forrest C. Hentz,1982

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G. Gilbert Long, Forrest C. Hentz, 1986-08-14 A question answer supplement to accompany a 1 year general chemistry course This text is a multiple choice format and can be used with any standard general chemistry text The exercises emphasize the importance of problem solving and equation writing in the style used in general chemistry examinations and professional school aptitude examinations such as the MCAT and VCAT Chemistry Neil D. Jespersen, Alison Hyslop, 2021-11-02

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