

Practice Problems Thermochemistry chapter 5

1. The specific heat of liquid bromine is $0.750 \text{ J/g}\cdot\text{K}$. How much heat (J) is required to raise the temperature of 10.0 mL of bromine from 25.00°C to 35.0°C ? The density of liquid bromine is 2.1 g/mL .

Note: the specific heat of 0.750 is bogus. I pulled it out of the air. However, the problem still solves the same way.

2. The value of ΔH° for the reaction below is -6535 kJ . _____ kJ of heat are released in the combustion of 16.0 g of C_6H_6 (l)?



3. Carbon monoxide and oxygen gas react to form carbon dioxide. How much heat is released when 89.5 grams of O_2 (g) reacts with excess CO? $\Delta H^\circ = -482 \text{ kJ}$.



4. The value of ΔH° for the reaction below is -336 kJ . Calculate the heat (kJ) released to the surroundings when 23.0 g of HCl is formed.



5. How much heat is released when 29.5 grams of Cl_2 (g) reacts with excess hydrogen?



17 Thermochemistry Practice Problems Answers

Dr. RK Gupta



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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. Numerical Chemistry for Competitions Anu Sharma, 2009. An ideal book for the students of XI and XII CBSE, ISC, and the State Boards who are using Core Curriculum and also useful for the students preparing for various Engineering Medical Entrance Examinations. **Chemistry: Matter & Change, Solving Problems - A Chemistry Handbook** McGraw Hill, 2001-08. Glencoe Chemistry Solving Problems: A Chemistry Handbook. Matter and Change. 14000 + Objective Questions - General Studies Manohar Pandey, 2018-04-20. Arihant has come up with a revised edition of a compendium of over 14000 questions which will significantly improve the knowledge of aspiring students by providing them with ready and reliable practice material for General Studies. The book has been designed for the aspirants preparing for IAS, CSAT, State PCS, CDS, NDA, and other competitive examinations. The revised edition of this question bank focuses on Indian History, Culture, India, World Geography, Env, Eco, Indian Polity, Indian Economy, General Science, Science Technology, General Knowledge, and Current Affairs. The book contains the collection of over 14000 questions covering General Studies. The History section covers ancient, medieval, and modern history, whereas the Geography section covers world geography, Indian geography, and environment, ecology. The General Science section covers Physics, Chemistry, Biology, and Science Technology. The questions covered in the book contain answers side by side to help aspirants evaluate themselves after attempting a certain number of questions. Also, the questions asked in recent years' General Studies examinations have been provided in the book with authentic and detailed solutions to help aspirants get an insight into the recent examination pattern and the types of questions asked therein. Each chapter in the book contains a variety of questions according to the latest pattern: Assertion Reason, Matching, Multi-Statements, Arrangements, Pairing, etc. Also, more than 500

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