

Name Key

1. Hydrogen, H_2 , is used as rocket fuel. The hydrogen is burned in oxygen, O_2 , according to the following equation. What is the enthalpy change if 200.0 g of hydrogen, H_2 , is burned?



$$\frac{200.0 \text{ g } H_2}{2.016 \text{ g } H_2} \times \frac{1 \text{ mol } H_2}{1} = 99.2 \text{ mol } H_2$$

$$99.2 \text{ mol } H_2 \times \frac{-484 \text{ kJ}}{2 \text{ mol } H_2} = -24,006 \text{ kJ}$$

2. Carbon disulfide burns in air, producing carbon dioxide and sulfur dioxide.



What is ΔH for the following reaction?



3. Following is the equation for the combustion of acetone:



How much heat will be given off (in kcal) if 4.5 mol of acetone is burned completely?

$$\frac{-853.6 \text{ kcal}}{2 \text{ mol } C_3H_6O} \times 4.5 \text{ mol } C_3H_6O = -1920.6 \text{ kcal}$$

4. The specific heat of iron is $0.110 \text{ cal} / \text{g} \cdot ^\circ\text{C}$. How much heat must be added to 5.2 g of iron at 25°C to raise its temperature to 225°C ?

$$\text{heat} = q = m c \Delta T = (5.2 \text{ g}) \left(\frac{0.110 \text{ cal}}{\text{g} \cdot ^\circ\text{C}} \right) (225 - 25^\circ\text{C}) = 114.4 \text{ cal}$$

5. Hydrazine, N_2H_4 , is a colorless liquid used as a rocket fuel. What is the enthalpy change for the process in which hydrazine is formed from its elements (reaction (1) below)? Use Hess's Law to calculate ΔH for reaction (1) given the data below.



13 4 Apply Chemistry Practice Problems Answers

Joacim Rocklöv



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General Chemistry Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie's classic text offers a thorough revision and a quantum leap forward from the previous edition Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie's many previous works This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value *Oswaal NCERT Exemplar (Problems - Solutions) Class 12 Physics, Chemistry and Mathematics (Set of 3 Books) For 2024 Board Exam* Oswaal Editorial Board, 2023-10-28 Description of the product Chapter wise and Topic wise presentation Chapter wise Objectives A sneak peek into the chapter Mind Map A single page snapshot of the entire chapter Revision Notes Concept based study materials Tips Tricks Useful guidelines for attempting each question perfectly Some Commonly Made Errors Most common and unidentified errors are focused Expert Advice Oswaal Expert Advice on how to score more Oswaal QR Codes For Quick Revision on your Mobile Phones and Tablets **Prentice Hall Chemistry, 2000 10 in One Study Package for CBSE Chemistry Class 12 with Objective Questions & 3 Sample Papers 4th Edition** Disha Experts, 2020-06-20 5 Steps to a 5: AP Chemistry 2018 Mary Millhollon, Richard H. Langley, 2017-07-28 Get ready to ace your AP Chemistry Exam with this easy to follow multi platform study guide 5 Steps to a 5 AP Chemistry introduces an easy to follow effective 5 step study plan to help you build the skills knowledge and test taking confidence you need to achieve a high score on the exam This wildly popular test prep guide matches the latest course syllabus and the latest exam You'll get online help four full length practice tests two in the book and two online detailed answers to each question study tips information on how the exam is scored and much more Because this guide is accessible in print and digital formats you can study online via your mobile device straight from the book or any combination of the three 5 Steps to a 5 AP Chemistry 2018 features New Access to the entire Cross Platform Prep Course in Chemistry 4 Practice Exams 2 in the book 2 online An interactive customizable AP Planner app to help you organize your time Powerful analytics you can use to assess your test readiness Flashcards games and more *New England Journal of Education*, 1897 **Journal of Education**, 1893 **Cumulated Index Medicus**, 1991 **The Textile Mercury**, 1890 **The Chemical News and Journal of Physical Science**, 1870 **Civil Engineering Reference Manual** Michael R. Lindeburg, 1992 This manual fully prepares applicants for the civil PE exam by far the most popular of the PE disciplines Every exam subject is thoroughly covered with illustrations and practice problems to heighten the reader's understanding Also included are test taking strategies and exam information indexed Student Study Guide Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble, 1994 *The Journal of Education*, 1893 **5 Steps to a 5: AP Chemistry 2018 Elite Student Edition** Mary Millhollon, Richard H. Langley, 2017-07-28 Get ready to ace your AP Chemistry Exam with this easy to follow multi platform study guide 5 Steps to a 5 AP Chemistry 2018 Elite Student Edition introduces an effective 5 step study plan to help you build the skills knowledge and test taking confidence you need to

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