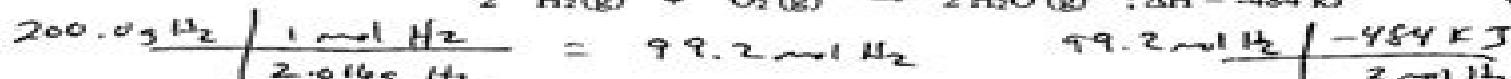


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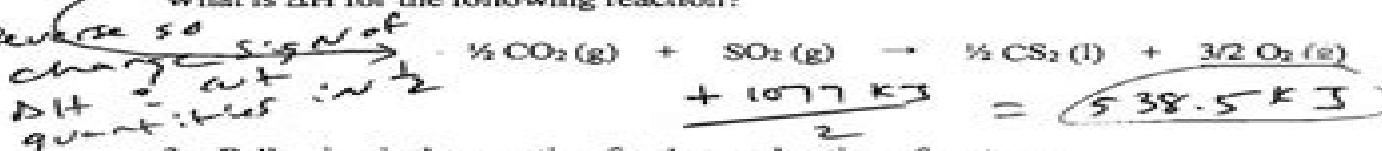
1. Hydrogen, H_2 , is used as rocket fuel. The hydrogen is burned in oxygen, O_2 , according to the following equation. What is the enthalpy change if 200.0 g of hydrogen, H_2 is burned?



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



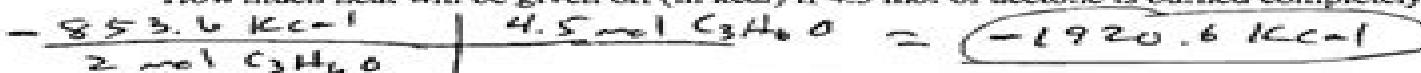
What is ΔH for the following reaction?



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?



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

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

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.



Reverse



double
quantities



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Chemistry Calculations for Beginners John Obimakinde, Samuel Obimakinde, Ebenezer Obimakinde, Fredrick Akinbolade, 2025-05-30 With decades of combined experience as science teachers at both school and undergraduate levels the authors have recognised that one of the greatest challenges faced by students studying chemistry is grasping the complexity of the numerous numerical problems found in most parts of the subject. This text is crafted to provide a clear and accessible pathway to overcoming this challenge by assisting students especially novices or those with minimal knowledge of the subject in performing chemistry calculations. The content covers fundamental calculations crucial to understanding the principles of chemistry making it an invaluable tool for students aiming to excel in their studies. Key features: Designed with a student friendly approach including detailed explanation of chemical concepts underlying each type of calculation step by step explanations, alternative methods for solving problems, numerous practice exercises, answers to practice exercises and appendices. The book is tailored to suit various curricula ensuring relevance for a diverse audience. Encompasses a wide range of calculations offering students a thorough understanding of essential chemistry concepts. Serves as an excellent resource for exam preparation and equips students with skills applicable to future scientific endeavours. Employs straightforward language to ensure ease of understanding for beginners. Uses IUPAC conventions underscoring the universal nature of chemistry.

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.

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Ebbing Darrell D. Ebbing, 1993 A New Approach to ICSE Chemistry for Class X (A.Y. 2023-24)Onward V. K. Sally, 2023-05-20 A New Approach to ICSE Chemistry for Class X has been revised in accordance with the latest syllabus prescribed by the Council for the Indian School Certificate Examination New Delhi for Class X. The main strength of the book lies in the presentation of scientific content which has been so arranged that the topics are linked with each other and do not cause any unnecessary burden on the mind of the student. Salient features of this book are as follows: Clear simple and easy language, A large number of chemical

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