

SCH4U

Topic: Energetics

Worksheet: Hess' Law

1. Ethene, C_2H_4 , reacts with water to form ethanol, $CH_3CH_2OH(l)$.



Determine the enthalpy change of this reaction, given the following thermochemical equations:



2. A typical automobile engine uses a lead-acid battery. During discharge, the following chemical reaction takes place:



Determine the enthalpy change of this reaction, given the following equations:



3. Mixing household cleaners can result in the production of hydrogen chloride gas, $HCl(g)$. Not only is this gas dangerous in its own right, but it also reacts with oxygen to form chlorine gas and water vapour.



Determine the enthalpy change of this reaction, given the following equations:



4. Calculate the enthalpy change of the following reaction between nitrogen gas and oxygen gas, given the thermochemical equations below:



5. Calculate the enthalpy change of the following reaction, given equations (1), (2), and (3).



6. Calculate ΔH for the reaction $C_2H_4(g) + H_2(g) \rightarrow C_2H_6(g)$, from the following data.



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Christian Drosten



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Elementary Principles of Chemical Processes Richard M. Felder, Ronald W. Rousseau, Lisa G. Bullard, 2020-08-11 This best selling text prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering The text provides a realistic informative and positive introduction to the practice of chemical engineering *Quarterly Cumulative Gazette of Codex VI* Universal Reference System, 1968 *JAM IIT Chemistry Question Bank MSC Entrance* Mocktime Publication, The IIT JAM Chemistry code CY question bank includes topic wise drills Inorganic Organic Physical Chemistry Analytical Environmental Chemistry previous year JAM papers in PDF with solutions books with aligned notes and model test series The exam pattern for JAM Chemistry consists of 60 questions 100 marks across Sections A B C MCQs MSQs NATs consistent with IIT JAM structure The question bank aids entrants by exposing them to high frequency topics helping develop speed and accuracy and offering revision material and full length tests that mirror actual exam conditions Ideal for MSc entrance preparation in top institutes

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