

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:



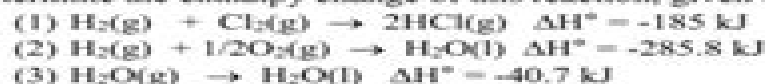
Determine the enthalpy change of this reaction, given the following equations:



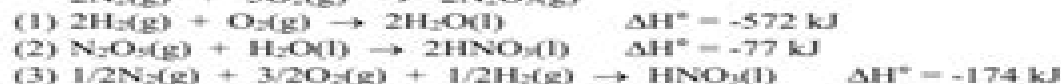
3. Mixing household cleaners can result in the production of hydrogen chloride gas, $HCl(g)$. Not only is this gas dangerous in its own right, but it also reacts with oxygen to form chlorine gas and water vapour.



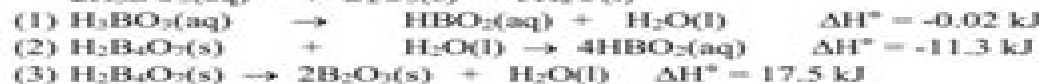
Determine the enthalpy change of this reaction, given the following equations:



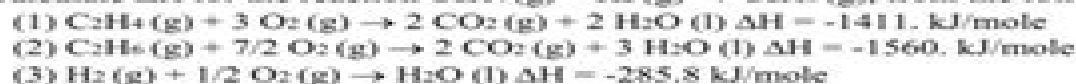
4. Calculate the enthalpy change of the following reaction between nitrogen gas and oxygen gas, given the thermochemical equations below:



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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JR Anderson



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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

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Congress. House, 1947 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

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Reporter, 1893 *Oil & Gas Journal*, 1967 *The Draper's Record*, 1892 *Business Publication Advertising Source*, 2006 ***The American and English Encyclopedia of Law and Practice*** William Mark McKinney, David Shephard

Garland, 1910 *The New York Times Index. "Prior Series."*, 1966 Prior series comprised of the original handwritten index for Sept 18 1851 Aug 31 1858 reproduced in facsimile and the newly prepared index for Sept 1858 Dec 1912 ***Cumulated***

Index Medicus, 1982 *The Central Law Journal*, 1897 Vols 64 96 include Central law journal s international law list

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