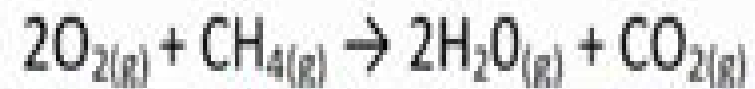


Use Hess' Law(s) for the following reaction to: (a) determine whether exothermic/endothermic, (b) find the change in entropy and (c) determine whether spontaneous or not. Check your answer to (c) using your results from (a) and (b) and Gibbs free energy equation.



$$\Delta H^\theta_{\text{reaction}} = \sum \Delta H^\theta_f(\text{products}) - \sum \Delta H^\theta_f(\text{reactants})$$

$$\Delta H^\theta_{rxn} = 2 \cdot (-241,8) - 393,5 - (2 \cdot 0 - 74,8)$$

$$= -802,3 \frac{\text{kJ}}{\text{mol}} < 0 \text{ exothermic}$$

|       |       |        |        |                                              |
|-------|-------|--------|--------|----------------------------------------------|
| 0     | -74,8 | -241,8 | -393,5 | $\frac{\text{kJ}}{\text{mol}}$               |
| 205,1 | 186,3 | 188,8  | 213,7  | $\frac{\text{J}}{\text{mol} \cdot \text{K}}$ |
|       |       |        |        |                                              |

$$\Delta S^\theta_{\text{reaction}} = \sum S^\theta(\text{products}) - \sum S^\theta(\text{reactants})$$

$$\Delta S^\theta_{rxn} = 2 \cdot 188,8 + 213,7 - (2 \cdot 205,1 + 186,3) = -5,2 \frac{\text{J}}{\text{mol} \cdot \text{K}}$$

$$\Delta G^\theta_{\text{reaction}} = \sum \Delta G^\theta_f(\text{products}) - \sum \Delta G^\theta_f(\text{reactants})$$

# Answers For Chemfax Thermodynamics Enthalpy Lab

**Henry Alistair Skinner**



## **Answers For Chemfax Thermodynamics Enthalpy Lab:**

**Paperbound Books in Print 1995** Reed Reference Publishing, Reference Reed, 1995-12      **Commonly Asked Questions in Thermodynamics** Marc J. Assael, Geoffrey C. Maitland, Thomas Maskow, Urs von Stockar, William A. Wakeham, Stefan Will, 2022-08-05 CRC Press is pleased to introduce the new edition of Commonly Asked Questions in Thermodynamics an indispensable resource for those in modern science and engineering disciplines from molecular science engineering and biotechnology to astrophysics Fully updated throughout this edition features two new chapters focused on energy utilization and biological systems This edition begins by setting out the fundamentals of thermodynamics including its basic laws and overarching principles It provides explanations of those principles in an organized manner using questions that arise frequently from undergraduates in the classroom as the stimulus These early chapters explore the language of thermodynamics the first and second laws statistical mechanical theory measurement of thermodynamic quantities and their relationships phase behavior in single and multicomponent systems electrochemistry and chemical and biochemical reaction equilibria The later chapters explore applications of these fundamentals to a diverse set of subjects including power generation with and without fossil fuels for transport industrial and domestic use heating decarbonization technologies energy storage refrigeration environmental pollution and biotechnology Data sources for the properties needed to complete thermodynamic evaluations of many processes are included The text is designed for readers to dip into to find an answer to a specific question where thermodynamics can provide some if not all of the answers whether in the context of an undergraduate course or not Thus its readership extends beyond conventional technical undergraduates to practicing engineers and also to the interested lay person who seeks to understand the discourse that surrounds the choice of particular technological solutions to current and future energy and material production problems      **Thermochemistry and Thermodynamics** Henry Alistair Skinner, 1975      **Hess's Law** Lifeliqe, 2019 This lesson plan covers two indirect methods of determining enthalpy change for most chemical reactions using Hess's law

The Top Books of the Year Answers For Chemfax Thermodynamics Enthalpy Lab The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Answers For Chemfax Thermodynamics Enthalpy Lab : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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