Chapter 6 - Lecture Worksheet 3

Using standard heats of formation, calculate the standard enthalpy change for the following reaction.

$$CO_2(g) + 4H_2(g)$$
 ----> $CH_4(g) + 2H_2O(g)$

$$\Delta H^{\circ}_{r=} = \Delta H^{\circ}_{f}(CH_{4},g) + 2\Delta H^{\circ}_{f}(H_{2}O,g) - \Delta H^{\circ}_{f}(CO_{2},g) - 4\Delta H^{\circ}_{f}(H_{2},g)$$
$$= -75 + 2(-242) - (-394) - 4(0) \text{ kJ} = -165 \text{ kJ}$$

(1) -711 kJ (2) -165 kJ (3) -15 kJ (4) 15 kJ (5) 165 kJ (6) 229 kJ (7) 711 kJ

Using average bond enthalpies estimate the standard enthalpy change for the same reaction.

$$CO_2(g) + 4H_2(g)$$
 ----> $CH_4(g) + 2H_2O(g)$

$$\Delta H^0_{\text{res}} = 2BE(C = O) + 4BE(H - H) - 4BE(C - H) - 4BE(O - H)$$

= 2(728) + 4(436) - 4(413) - 4(463) kJ = -304 kJ

Which is more accurate? Why?

AH° calculated from ΔH°_f is more accurate because ΔH° calculated from bond enthalpies uses AVERAGE bond enthalpies obtained from a number of different compounds in which the bonds arise and are not specific to the compound in question.

	StandardEnthalpy of formation (kJ/mol)
CHL(g)	-75
CO ₂ (g)	-394
$C_pH_p(g)$	+227
$H_{if}O(g)$	-242
H ₂ O(I)	-286
Nittedge)	-46
HFC3(g)	-92
HICh(mq)	-167
CarCO ₂ (x)	-1208
Car(Offly(sep)	-1003
Car(OHD)(s)	-986
CiarO(s)	-635
SO ₂ (g)	-297
S(O _v (g))	-396

	Average Bond Enthalpies (kJ/mol
316-316	436
284-88	391
260 - 260	161
250-050	418
NeN	945
O-H	463
C-O	3.51
CHO	728
CwO	1072
CI-CI	242
CI-HI	432
Bir-Bir	193
Be-H	366
C-H	413

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Zhe Xu



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Table of Contents Enthalpy Worksheet With Answers

- 1. Understanding the eBook Enthalpy Worksheet With Answers
 - The Rise of Digital Reading Enthalpy Worksheet With Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Enthalpy Worksheet With Answers
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Enthalpy Worksheet With Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Enthalpy Worksheet With Answers
 - Personalized Recommendations
 - Enthalpy Worksheet With Answers User Reviews and Ratings
 - Enthalpy Worksheet With Answers and Bestseller Lists
- 5. Accessing Enthalpy Worksheet With Answers Free and Paid eBooks
 - Enthalpy Worksheet With Answers Public Domain eBooks
 - Enthalpy Worksheet With Answers eBook Subscription Services
 - Enthalpy Worksheet With Answers Budget-Friendly Options
- 6. Navigating Enthalpy Worksheet With Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Enthalpy Worksheet With Answers Compatibility with Devices
 - Enthalpy Worksheet With Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Enthalpy Worksheet With Answers
 - Highlighting and Note-Taking Enthalpy Worksheet With Answers
 - Interactive Elements Enthalpy Worksheet With Answers
- 8. Staying Engaged with Enthalpy Worksheet With Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Enthalpy Worksheet With Answers
- 9. Balancing eBooks and Physical Books Enthalpy Worksheet With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Enthalpy Worksheet With Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Enthalpy Worksheet With Answers
 - Setting Reading Goals Enthalpy Worksheet With Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Enthalpy Worksheet With Answers
 - Fact-Checking eBook Content of Enthalpy Worksheet With Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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