# **HL Paper 2**

Enthalpy changes depend on the number and type of bonds broken and formed.

The table lists the standard enthalpies of formation,  $\Delta H_t^0$ , for some of the species in the reaction above.

	CH, (g)	H <sub>2</sub> O (g)	CO (g)	H, (a)
∆H <sub>0</sub> <sup>o</sup> / kJ mol <sup>-4</sup>	-74.0	-242	-111	

Enthalpy changes depend on the number and type of bonds broken and formed.

a. Hydrogen gas can be formed industrially by the reaction of natural gas with steam.

CH<sub>2</sub>(g) + H<sub>2</sub>O(g) → 3H<sub>2</sub>(g) + CO(g)

Determine the enthalpy change, ΔH, for the reaction, in kJ, using section 11 of the data booklet.

Bond enthalpy for C=0: 1077 kJ mol<sup>-1</sup>

b.i.Outline why no value is listed for H<sub>2</sub>(g).

b.i.Determine the value of  $\Delta H^0$ , in kJ, for the reaction using the values in the table.

c. The table lists standard entropy, S<sup>O</sup>, values.

	CH, (g)	H <sub>2</sub> O (g)	CO (g)	H, (a)
S*/JK*mof*	+186	+189	+108	+131

Calculate the standard entropy change for the reaction,  $\Delta S^0$ , in J K<sup>-1</sup>.

 $CH_2(g) + H_2O(g) \rightarrow 3H_2(g) + CO(g)$ 

- d. Calculate the standard free energy change, \( \Delta G^0\), in kJ, for the reaction at 298 K using your answer to (b)(i).
- e. Determine the temperature, in K, above which the reaction becomes spontaneous. [1]

#### Markscheme

a. bonds broken: 4(C-H) + 2(H-O)/4(414) + 2(463)/2682 «kJ»

bonds made: 384-H) + C#O/3(436) + 1077/2385 -kJ-

ΔH == ΣBE<sub>000703 trubuni</sub> - ΣBE<sub>000703 madei</sub> = 2582 - 2385= = == 197 -kJ=

Award [3] for correct final answer.

Award I2 max! for -197 -kJ-.

[3 marks]

[31]

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(10)

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#### Table of Contents M12 Ms Mathematic Hl Paper2 Tz1

- 1. Understanding the eBook M12 Ms Mathematic Hl Paper2 Tz1
  - The Rise of Digital Reading M12 Ms Mathematic Hl Paper2 Tz1
  - Advantages of eBooks Over Traditional Books
- 2. Identifying M12 Ms Mathematic Hl Paper2 Tz1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ$  Features to Look for in an M12 Ms Mathematic Hl Paper2 Tz1
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from M12 Ms Mathematic Hl Paper2 Tz1
  - Personalized Recommendations
  - M12 Ms Mathematic Hl Paper2 Tz1 User Reviews and Ratings
  - M12 Ms Mathematic Hl Paper2 Tz1 and Bestseller Lists
- 5. Accessing M12 Ms Mathematic Hl Paper2 Tz1 Free and Paid eBooks
  - M12 Ms Mathematic Hl Paper2 Tz1 Public Domain eBooks
  - M12 Ms Mathematic Hl Paper2 Tz1 eBook Subscription Services

- M12 Ms Mathematic Hl Paper2 Tz1 Budget-Friendly Options
- 6. Navigating M12 Ms Mathematic Hl Paper2 Tz1 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - M12 Ms Mathematic Hl Paper2 Tz1 Compatibility with Devices
  - M12 Ms Mathematic Hl Paper2 Tz1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of M12 Ms Mathematic Hl Paper2 Tz1
  - ∘ Highlighting and Note-Taking M12 Ms Mathematic Hl Paper2 Tz1
  - Interactive Elements M12 Ms Mathematic Hl Paper2 Tz1
- 8. Staying Engaged with M12 Ms Mathematic Hl Paper2 Tz1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers M12 Ms Mathematic Hl Paper2 Tz1
- 9. Balancing eBooks and Physical Books M12 Ms Mathematic Hl Paper2 Tz1
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection M12 Ms Mathematic Hl Paper2 Tz1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine M12 Ms Mathematic Hl Paper2 Tz1
  - Setting Reading Goals M12 Ms Mathematic Hl Paper2 Tz1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of M12 Ms Mathematic Hl Paper2 Tz1
  - Fact-Checking eBook Content of M12 Ms Mathematic Hl Paper2 Tz1
  - 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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