HL Paper 2

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

The table lists the standard enthalpies of formation, ΔH_t^0 , for some of the species in the reaction above.

	CH, (g)	H ₂ O (g)	CO (g)	H, (a)
∆H ₀ ^o / kJ mol ⁻⁴	-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.

CH₂(g) + H₂O(g) → 3H₂(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⁻¹

b.i.Outline why no value is listed for H₂(g).

b.i.Determine the value of ΔH^0 , in kJ, for the reaction using the values in the table.

c. The table lists standard entropy, S^O, values.

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

Calculate the standard entropy change for the reaction, ΔS^0 , in J K⁻¹.

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

- 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_{000703 trubuni} - ΣBE_{000703 madei} = 2582 - 2385= = == 197 -kJ=

Award [3] for correct final answer.

Award I2 max! for -197 -kJ-.

[3 marks]

[31]

013

613

20.00

010

M12 Ms Mathematic Hl Paper2 Tz1

AW Rasmussen

M12 Ms Mathematic Hl Paper2 Tz1:

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