The Advanced Placement Examination in Chemistry

Part II - Free Response Questions & Answers 1970 to 2008 Thermodynamics

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Questions With ANSWERS

1979 B

	$\Delta H/^{\circ}$	5.0
Compound	(kilocalories/mole)	(calories/mole K)
H_2O_{10}	-68.3	16.7
CO_{200}	-94.1	51.1
O200	0.0	49.0
C ₃ H ₄	2	64.5

When 1.000 gram of propane gas, C₁H_s, is burned at 25°C and 1.00 atmosphere, H₂O₆₀ and CO₂₍₂₎ are formed with the evolution of 12.03 kilocalories.

- (a) Write a balanced equation for the combustion reaction.
- (b) Calculate the molar enthalpy of combustion, ΔH⁰......, of propane.
- (c) Calculate the standard molar enthalpy of formation, ΔH°, of propane gas.
- (a) $C_3H_4 + 5 O_{2(g)} \rightarrow 3 CO_{2(g)} + 4 H_2O_{43}$
- (b) $\Delta H_{cont.}^- = \frac{-12.03 \text{ kcal}}{1.000 \text{ g}} \times \frac{44.10 \text{ g}}{1 \text{ mol}} = -530.5 \text{ m/s}$

This answer should be -529.3 keal/mol

- (c) $\Delta H_{comb}^- = 3\Delta H_{T}^- co_2 + 4\Delta H_{T}^- H_2^- c_3 \Delta H_{T}^- c_3 H_8$ -529.3 keal = [3(-94.1) + 4(-68.3) - X] keal $\Delta H_{c}^0 = -26.2 \text{ keal/mol}$
- (d) $\Delta S_{comb.} = [3S_{CO_2} + 4S_{D_2O}] [S_{C_3H_8} + 5S_{O_2}] = [3(51.1) + 4(16.7)] [64.5 + 5(49.0)]$ = -89.4 cal/mol.K

Entropy decreases due to loss of highly disordered gaseous species upon combustion.

2008 Ap Chemistry Answers

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