Chemistry 12 Unit 2 - Chemical Equilibrium 26. A system has reached equilibrium when: a) maximum entropy has been achieved
b) minimum enthalpy has been achieved
c) the rate of the forward reaction and reverse reaction is zero
d) the concentrations of reactants and products have stopped changing Your answer is Explain why equil m w reache macroscopic Equilibrium is achieved when reactant and product concentrations are (27. constant In a particular chemical reaction, $\Delta H = +100$ kJ. When equilibrium has been established; it is found that a significant amount of product has formed, even though there is still some 28. reactants left. What has happened to entropy as this reaction was taking place? Increase d Explain how you arrived at your answer YX. wendothermic (4Hopos.) Se to min enthalpy favors reactants this ix to occu Inorder at all the tend to max entropy must favor products products have greate 29. Given the following potential energy diagram for a reaction: 250 200 150 PE (kJ) AH wpos 100 50 0 Progress of Reaction Explain in terms of enthalpy and entropy, how you could end up with a fairly high ratio of products to reactants. encle. (AH pos) tend to min enthalpy favours reactants ratio is high, tend to max entropy must favor producto. (producto must have higher Worksheet 2-1 - Equilibrium, Enthalpy and Entropy Page 5