

5. The ionic product of water, K_w at 298K = 1×10^{-14} .

(a) Given the K_w of water at 50°C is 5.47×10^{-14} calculate the pH of water at this temperature. (3)

(b) From your answer to (a) and your knowledge of Le Chatelier's Principle, suggest and explain whether the ionization of water is exothermic or endothermic. (2)

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