Exercise 7.2 Reactions of Carbonates

Write a balanced chemical equation for each of the following reactions. 1. Include states of matter. Na₂CO₃ reacts with excess H⁺(aq) (a) (b) BaCO₃ reacts with excess H⁺(aq) Cs₂CO₃ reacts with excess HCl(aq) (c) (d) MgCO₃ reacts with excess HCl(aq) 2. Write a balanced chemical equation for each of the following reactions. Include states of matter. CO₂ reacts with excess LiOH(aq) (a) CO₂ reacts with excess NaOH(aq) (b) CO₂ reacts with excess Ca(OH)₂(s) (c) (d) CO₂ reacts with excess Ba(OH)₂(aq) 3. Write a balanced chemical equation for each of the following reactions. Include states of matter. CaCO₃ decomposes upon heating (a) (b) BaCO₃ decomposes upon heating