

TRANSITION METALS (G)

Write a balanced equation for each of the following ligand substitution reactions. 1 Addition of ammonia (aq) to a solution containing [Co(H₂O)₆]²⁺ 2 Addition of concentrated hydrochloric acid to a solution containing [Fe(H₂O)₆]³⁺ 3 Addition of 1,2-aminoethane to a solution containing [Co(NH₃)₆]²⁺ 4 Addition of sodium ethanedioate (aq) to a solution containing [Cr(H₂O)₆]³⁺ 5 Addition of sodium EDTA (aq) to a solution containing [Fe(H₂O)₆]²⁺ 6 Addition of ammonia (aq) to a solution containing [Cu(H₂O)₆]²⁺ 7 Addition of sodium EDTA (aq) to a solution containing [Cr(NH₂CH₂NH₂)₃]³⁺ 8 Addition of concentrated hydrofluoric acid to a solution containing [Cu(H₂O)₆]²⁺