Answer on Question #47626 - Chemistry - Other

Question

What is the molecular equation and net ionic equation of NH4NO3+K2SO4?

Answer:

The molecular equation:

$$2NH_4NO_3 + K_2SO_4 = 2NH_3 \uparrow + H_2SO_4 + 2KNO_3$$

The complete ionic equation:

$$2NH_4^+ + 2NO_3^- + 2K^+ + SO_4^{2-} = 2NH_3^+ + 2H^+ + SO_4^{2-} + 2K^+ + 2NO_3^-$$

The net ionic equation:

$$2NH_4^+ = 2NH3 \uparrow + 2H^+$$