Answer on Question #54079 – Chemistry – General chemistry

Question:

2. Write a balanced equation showing what happened when potassium hydroxide is combined with sulfuric acid (show dissociation into which ions?).

Answer:

$$2KOH + H_2SO_4 \rightarrow K_2SO_4 + H_2O$$

$$2K^+ + 2OH^- + 2H^+ + SO_4^{\ 2-} \rightarrow 2K^+ + SO_4^{\ 2-} + H_2O$$

$$2OH^- + 2H^+ \rightarrow H_2O$$

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