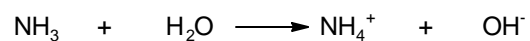


1) Circle the conjugate base in the reaction below:



2) What volume of 18 M H_2SO_4 is required to make 100 mL of 0.5 M H_2SO_4 solution?

3) How many grams of NaOH are needed to prepare 1.5 L of a 3 M NaOH solution?

4) Circle **all** of the following that are likely to be soluble in water.

- a) $\text{CH}_3\text{CH}_2\text{SH}$ b) CH_3OH c) BaCO_3 d) $\text{CH}_3\text{CH}_2\text{Cl}$ e) $\text{Ca}(\text{NO}_3)_2$ f) NaBr

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2) How many grams of NaOH are needed to prepare 2.0 L of a 1.5 M NaOH solution?

3) What volume of 18 M H_2SO_4 is required to make 500 mL of 0.1 M H_2SO_4 solution?

4) Circle the conjugate base in the reaction below:

