

24. Which one of the following underlined species is acting as an acid?

- (a) $\underline{\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2} + \text{CH}_3\text{COOH} \rightleftharpoons \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_3^+ + \text{CH}_3\text{COO}^-$
- (b) $\text{HSO}_3^- + \text{NH}_3 \rightleftharpoons \underline{\text{SO}_3^{2-}} + \text{NH}_4^+$
- (c) $\text{NH}_4^+ + \text{CH}_3\text{COO}^- \rightleftharpoons \underline{\text{NH}_3} + \text{CH}_3\text{COOH}$
- (d) $\underline{[\text{Fe}(\text{H}_2\text{O})_6]^{3+}} + \text{H}_2\text{O} \rightleftharpoons [\text{Fe}(\text{OH})(\text{H}_2\text{O})_5]^{2+} + \text{H}_3\text{O}^+$