

[illegible]

$$\begin{aligned} \text{CH}_3\text{COOH} &\rightleftharpoons \text{CH}_3\text{COO}^- + \text{H}^+ & K_a = 1.8 \times 10^{-5} \\ \text{CH}_3\text{COO}^- + \text{H}_2\text{O} &\rightleftharpoons \text{CH}_3\text{COOH} + \text{OH}^- &K_b = 5.6 \times 10^{-10} \end{aligned}$$