

Question #69045, Chemistry / Organic Chemistry

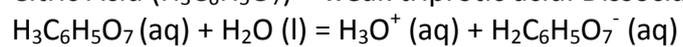
The question is one working out the equilibrium expression for some acids.

Citric Acid ($\text{H}_3\text{C}_6\text{H}_5\text{O}_7$)

$$K_a = 7.1 \times 10^{-4}$$

Answer :

Citric Acid ($\text{H}_3\text{C}_6\text{H}_5\text{O}_7$) – weak triprotic acid. Dissociation equation



$$K_a = \frac{[\text{H}_2\text{C}_6\text{H}_5\text{O}_7^-][\text{H}_3\text{O}^+]}{[\text{H}_3\text{C}_6\text{H}_5\text{O}_7]}$$