

- Ascorbic acid (Vitamin C) is a monoprotic acid of formula $C_6H_8O_6$. Calculate the pH of a 0.10 M solution of ascorbic acid, given the K_a of ascorbic acid is 8.0×10^{-5} M.

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Answer:

- Write equations to show what happens to a buffer solution containing equimolar amounts of $C_6H_5CH_2COOH$ and $C_6H_5CH_2COOK$ when:
(a) H_3O^+ is added, (b) OH^- is added.

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(a)

(b)