



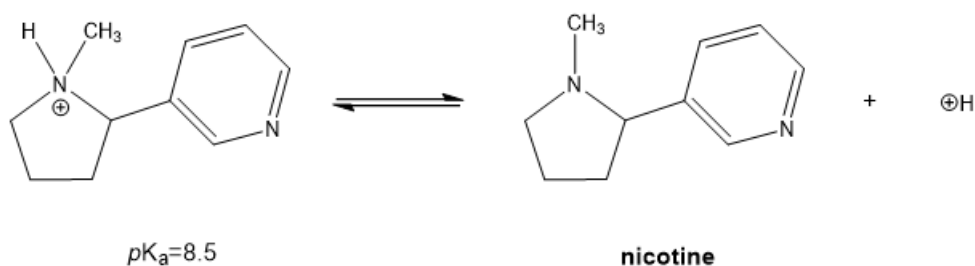
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Select the statement that is **not true** about Nicotine, the pharmacology active alkaloid found in tobacco.



- ☐ (A) Nicotine is a stronger base than aniline ($pK_a = 4.6$ for the conjugate acid of aniline).
- ☐ (B) In the blood buffered at $pH = 7.4$, nicotine exists primarily in the neutral form shown on the right rather than the cationic form shown on the left.
- ☐ (C) When the pH of an aqueous solution of nicotine is adjusted to $pH = 8.5$ then the concentration of nicotine and its conjugate acid are equal.
- ☐ (D) When the pH of an aqueous solution of nicotine is adjusted to $pH = 1.0$ then the conjugate acid of nicotine is the major species present.
- ☐ (E) When the pH of an aqueous solution of nicotine is adjusted to $pH = 14.0$ then nicotine is the major species present.

VIDEO SOLUTION



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