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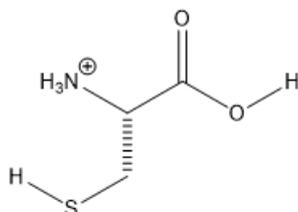
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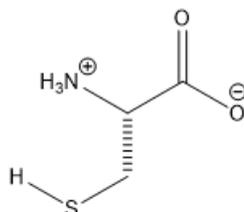
Six different protonation states of the amino acid cysteine are shown below. Which structure represents the major species in a solution buffered at pH 7?

The pK_a of the NH_4^+ group is 10.8. The pK_a of the SH group is 8.3. The pK_a of the CO_2H group is 1.7.

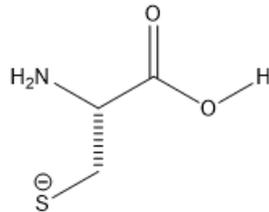
(A)



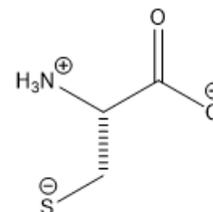
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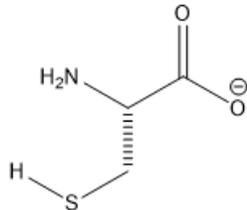
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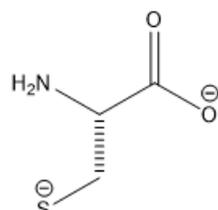
(D)



(E)

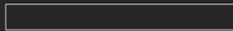


(F)



VIDEO SOLUTION





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