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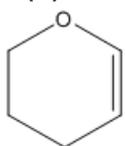
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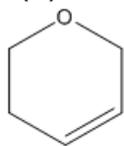
Compound 1 (C_5H_6O) is not chiral and has an infrared absorption at 1704 cm^{-1} . Compound 1 reacts with methyllithium to give a racemic mixture of two chiral compounds. Hydrogenation of the racemic mixture gives compound 2 ($C_6H_{12}O$) which, like compound 1, is not chiral.

Choose the answer for structure 1 that is consistent with this data.

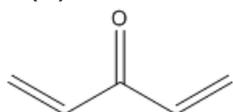
(A)



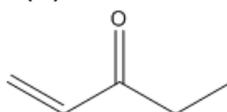
(B)



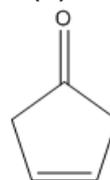
(C)



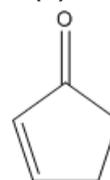
(D)



(E)



(F)



VIDEO SOLUTION



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