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Give the structures of compounds B-D from the following data.

(a) Compound B has a molecular formula of C_5H_6O , has 5 absorptions in the ^{13}C NMR spectrum and is achiral. Compound B can be reduced with $NaBH_4$ in methanol to compound C.

(b) Compound C has a molecular formula of C_5H_8O , has 5 absorptions in the ^{13}C NMR spectrum and is a racemic mixture. Compound C can be reduced with $H_2/Pd-C$ to give compound D.

(c) Compound D has a molecular formula of $C_5H_{10}O$, has only 3 absorptions in the ^{13}C NMR spectrum and is achiral.

VIDEO SOLUTION



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