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Compound A (C_5H_8O) is not chiral and has an infrared absorption at 1704 cm⁻¹. Compound A reacts with methyllithium to give a racemic mixture of two chiral compounds. Hydrogenation of the racemic mixture gives compound B ($C_6H_{14}O$) which, like compound A is not chiral.

Give the structures of A and B.

A
$$\frac{1. \text{ LiCH}_3}{2. \text{ H}_2\text{O}}$$
 racemix mixture $\frac{\text{H}_2/\text{Pd}}{\text{achiral}}$ B achiral $\text{C}_5\text{H}_8\text{O}$ $\text{C}_6\text{H}_{15}\text{O}$

VIDEO SOLUTION

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