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Two compounds, A and B, have the following properties:

(a) Both A and B have the formula $C_5H_{11}Br$.

(b) Both A and B are achiral.

(c) Compound A does not undergo elimination reactions when treated with strong bases.

(d) Compound A does not undergo nucleophilic substitution reactions under normal conditions.

(e) Compound B reacts rapidly with water at room temperature to give an alcohol with the formula $C_5H_{12}O$ as the major product.

(f) Compound B reacts with potassium ethoxide to give hydrocarbon C with the formula C_5H_{10} as the major product. Compound B reacts with potassium tert-butoxide to give hydrocarbon D, which is an isomer of hydrocarbon C, as the major product.

Give the structures of compounds A and B.

VIDEO SOLUTION

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