



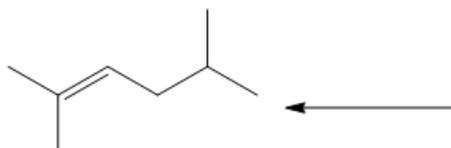
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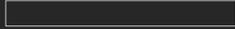
Using the library of synthetic reactions below, propose a synthesis of the following compound from compounds containing four carbon atoms or less.



<p>2-bromobutane $\xrightarrow{\ominus \text{OR or } \ominus \text{OH}}$ 1-butene</p>	<p>propyl bromide $\xrightarrow{\text{Li}}$ propyl lithium</p>
<p>secondary alcohol $\xrightarrow{\text{PCC}}$ ketone</p>	<p>propyl lithium $\xrightarrow[2. \text{H}_2\text{O}]{1. \text{R}_1\text{C(=O)R}_2}$ tertiary alcohol</p>
<p>secondary alcohol $\xrightarrow{\text{Br-H}}$ secondary bromide</p>	<p>1-butene $\xrightarrow[\text{Pd}]{\text{H}_2}$ butane</p>

VIDEO SOLUTION





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