Carey Chapter 4 Reactions Used in ChemCoach Synthesis

| $R_3CH \xrightarrow{Br_2} R_3CBr$ | selective for 3° H; all 3° H must be equivalent also useful when all Hs in molecule are equivalent |
|-----------------------------------|--|
| ROH PBr ₃ RBr | mostly used for 1° and 2° alcohols |
| R₃COH <u>HBr</u> R₃CBr | most useful for 3° alcohols; avoid 1° and 2° alcohols that will rearrange |
| ROH SOCI₂ ► RCI | mostly used for 1° and 2° alcohols |
| R₃COH HCI R₃CCI | synthetic utility mostly limited to 3° alcohols |
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