SYNTHETIC TOOLBOX

Some of the reactions in this handout may not have been covered in your course. Some of the reactions covered in your course may not be included in this handout. You should come up with your own synthetic toolbox that matches the reactions covered in your course; as your course proceeds and new reactions are introduced, keep updating your toolbox.

goals	reactions
functionalize—i.e., replace a H with a functional group	radical halogenation (bromine is most selective): - C - H + X - X - selective - C - X + H - X
defunctionalize—i.e., replace a functional group with a H or D	RMgX + H ₂ O ⁺ \rightarrow R-H + H ₂ O + *MgX hydrogenation: R ₁ C=C R ₃ + H ₂ Pd/C \rightarrow R ₂ R ₁ R ₃ R ₄ H \rightarrow R ₁ R ₂ R ₄ R ₃
add C's—i.e., create a C-C bond	Grignard reagent + carbonyl Grignard reagent + epoxide alkene + H ₂ SO ₄ (cationic polymerization)
remove C's—i.e., cleave a C-C bond	ozonolysis: $R_1 \subset C \subset R_3$ $1 \cdot O_3$ $R_2 \subset C \subset R_3$ $R_2 \subset R_4$ $1 \cdot O_3 \subset R_4$ $R_2 \subset C \subset R_4$
synthesize an alkyl halide	radical halogenation: - C - H + X - X → C - X + H - X alkyl bromide from a methyl, 1°, or 2° alcohol: R-OH + PBr ₃ → R-Br + HOPBr ₂ alkyl chloride, bromide, or iodide from a 3° alcohol (S _N 1): R-OH + HX → R-X + H ₂ O hydrohalogenation of an alkene (X on less substituted C): C=C(+H-X) → H-C-C-X
synthesize a 1,2-dihalide (X's on adjacent C's)	$\begin{array}{c} R_1 \\ R_2 \end{array} C = C \begin{bmatrix} R_3 \\ R_4 \end{bmatrix} + X_2 \longrightarrow \begin{array}{c} R_2 R_1 \\ X \end{bmatrix} C - C \begin{bmatrix} X \\ R_3 \end{bmatrix} R_4 \\ X \begin{bmatrix} C - C \\ R_4 \end{bmatrix} R_2 \end{bmatrix} X$
synthesize a carbonyl (aldehyde or ketone)	methyl, 1°, or 2° alcohol + PCC, no H ₂ O ozonolysis: $R_1 \subset R_3 \longrightarrow R_4$ $R_2 \subset R_4 \longrightarrow RMgX$, $R_2 \subset R_4$ RX + Mg $\rightarrow RMgX$, $R_3 \subset R_4$
synthesize a Grignard reagant	$BX + Mg \rightarrow RMgX$, $X = Cl, Br, or l$

Organic Chemistry Toolbox

The Princeton Review

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