

reduction

aldehyde $C_nH_{2n}O \rightarrow 1^\circ$ alcohol

$H_2/Pt, NaBH_4, LiAlH_4$

ketone $C_nH_{2n}O \rightarrow 2^\circ$ alcohol

$H_2/Pt, NaBH_4, LiAlH_4$

carboxylic acid $C_nH_{2n}O_2 \rightarrow 1^\circ$ alcohol

only $LiAlH_4$