

1. Show how you would synthesize 2-octanone from each compound. You may use any necessary reagents.

a) 2,3-dimethyl-2-nonene

b) Heptanal

2. How would you synthesize octanal from each compound. You may use any necessary reagents.

a) 1-nonene

b) 1,1-dichlorooctane

3. Give the missing starting material, reagent or product in the reactions below.

