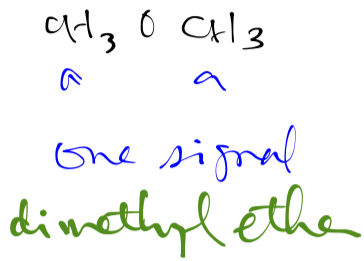
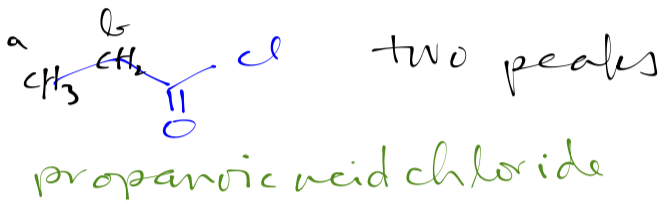


HW 9-4 12.1 12.2 12.3 12.4 12.9

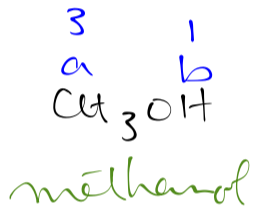
12.1



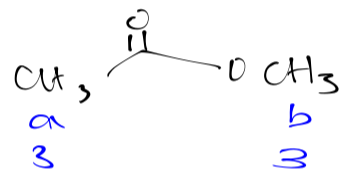
like cyclohexane  
 cyclopentane may show axial + equatorial peaks



12.2

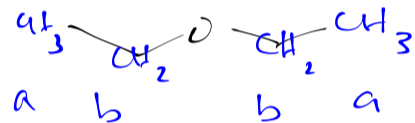


methyl acetate



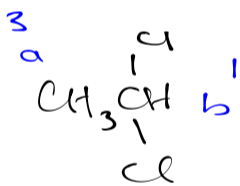
or 1:1

diethyl ether



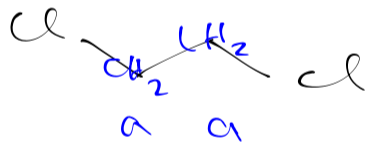
3:2 or 6:4

12.3



1,1-dichloro ethane

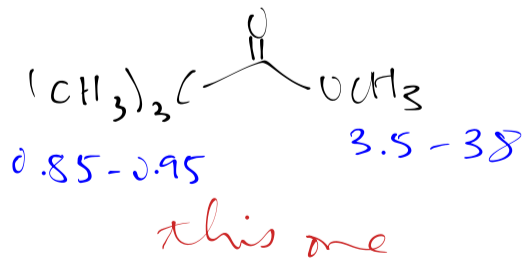
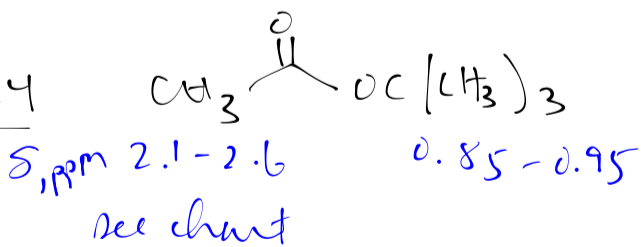
two peaks



1,2-dichloro ethane

one peak

12.4



12.9



2 peaks, with splitting  
 diff halogens



