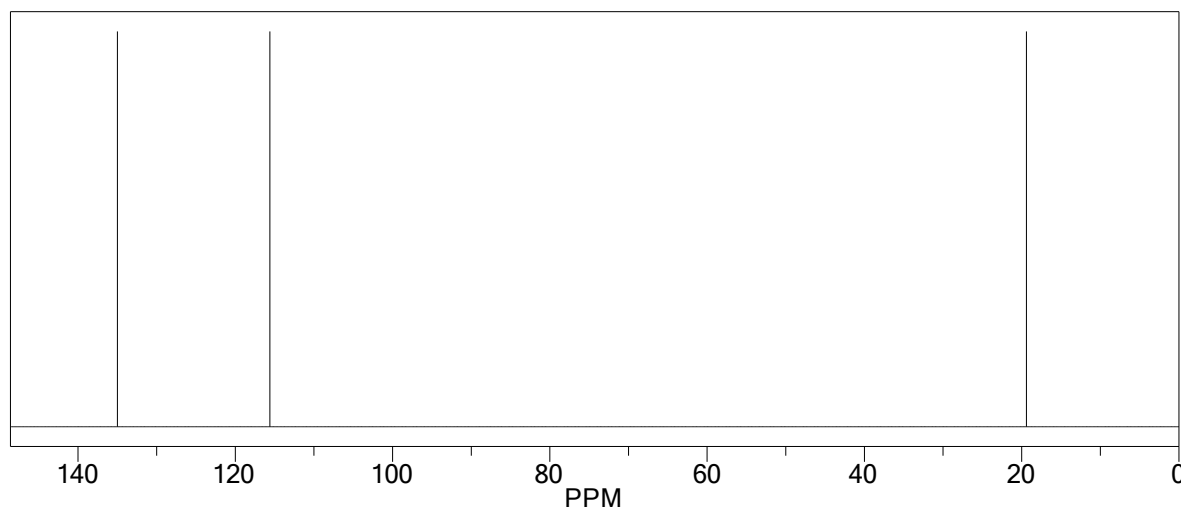


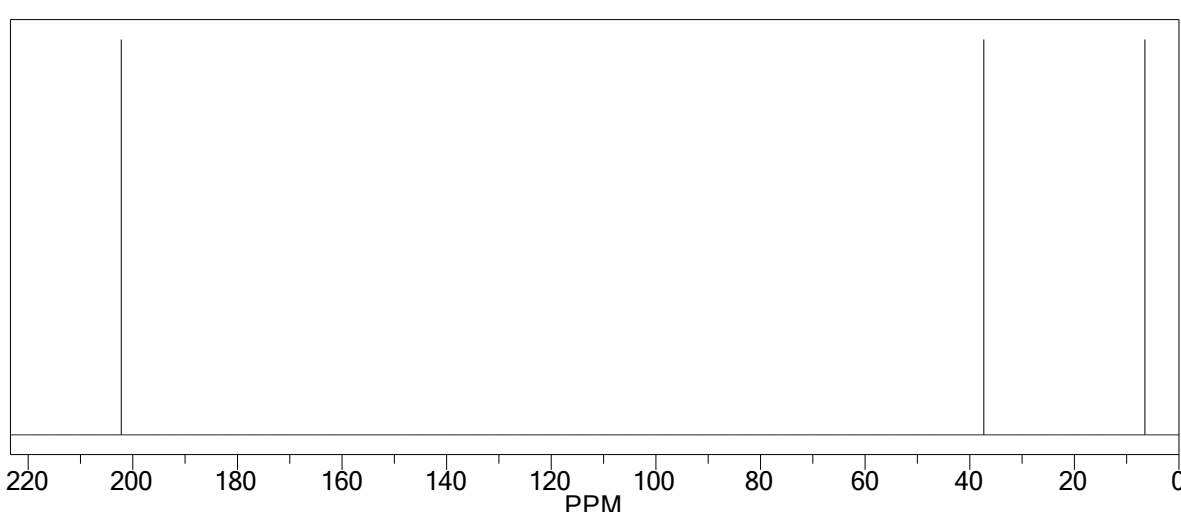
Many reactions can occur with primary alcohol such as propan-1-ol

Using the  $^{13}\text{C}$  NMR data below, identify the product, the type of reaction and reagent associated with the reaction.

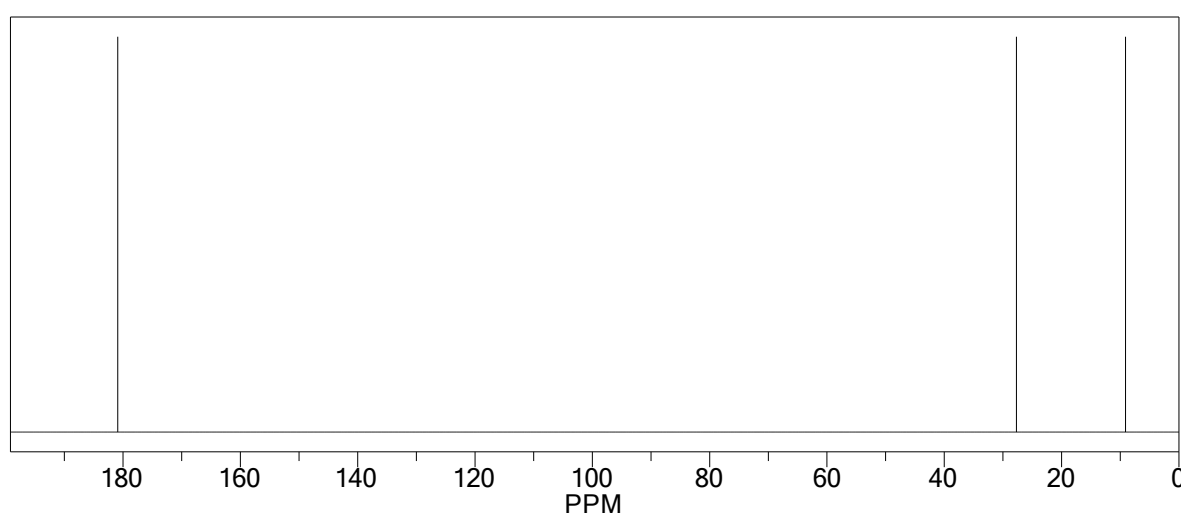
Compound A



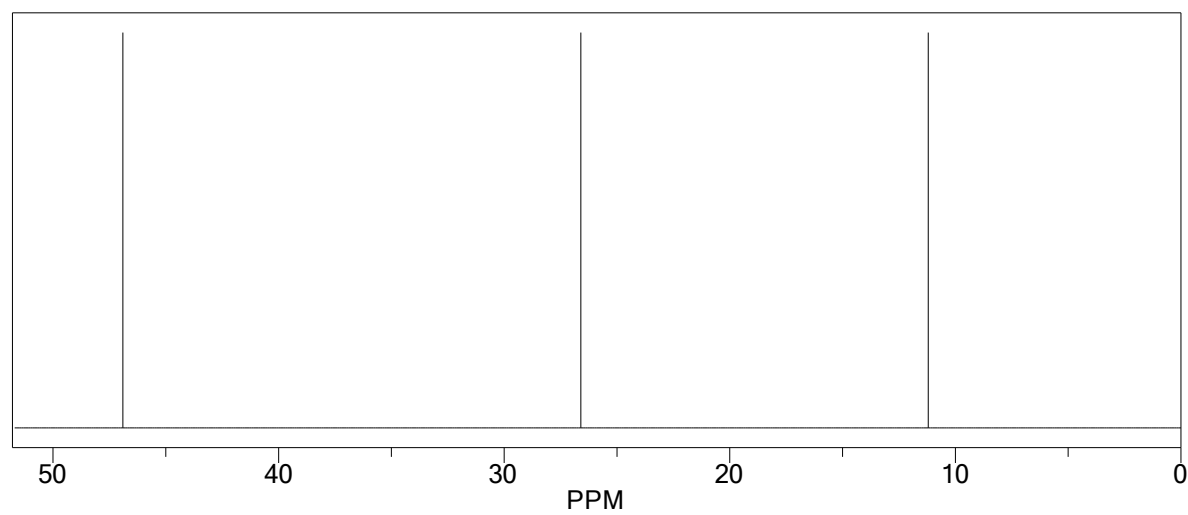
Compound B



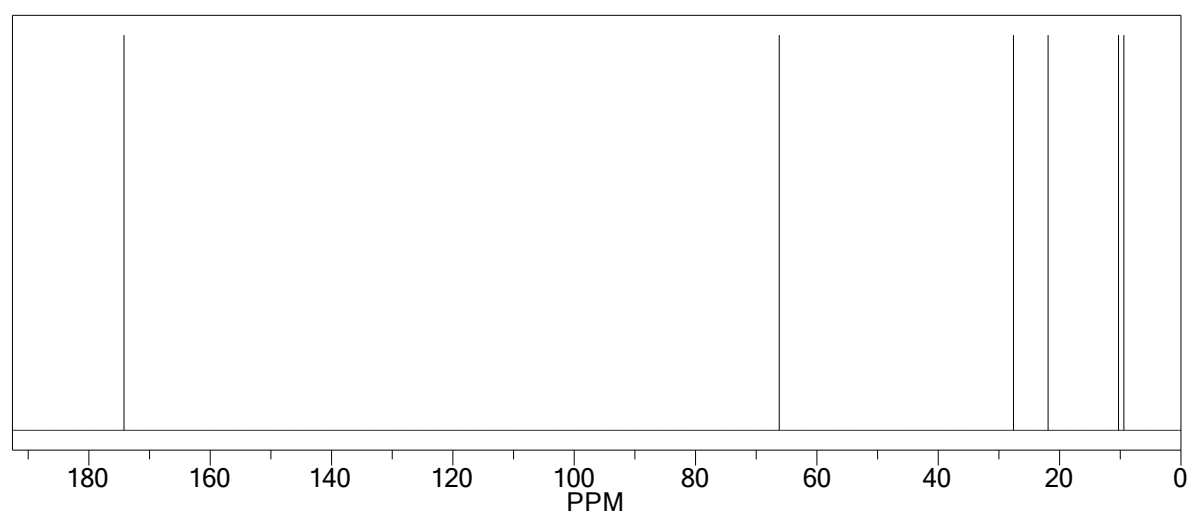
Compound C



Compound D



Propan-1-ol can react with one of the compound above and produce compound E



Discuss compound E