

ORGANIC WORKSHEET 05b: ^1H NMR I

1. Consider the molecule ethyl ethanoate. Predict the number of signals, the relative intensity, and the splitting patterns, that you would expect in the ^1H NMR spectrum of this ester. (6)



2. Only in terms of the number of signals, how will ^1H NMR spectra differ for each pairs of isomers listed below? (6)

(a) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ and propan-2-ol

(b) Butanal and 2-butanone

