CH-314 Structural Analysis
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Jigsaw 2C

Hore Section 2.4. Contributions to nuclear shielding

1. Two students prepared each an NMR tube of ethanol in deuterated chloroform. The first one used 1 mM of ethanol, the second student used 100 times that concentration. Apart from the difference in intensity, will they obtain the same proton spectrum? Why or why not?

2. Predict which of the ortho, meta, and para protons in methoxybenzene has the highest and which the lowest ^{1}H chemical shift.