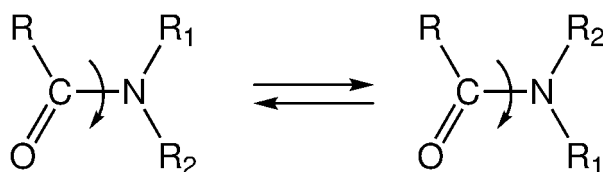


Problem 54

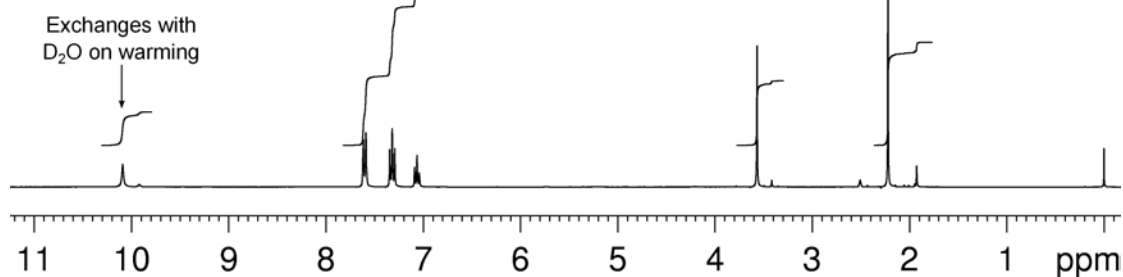
This compound is an amide, and amides frequently exist as a mixture of stereoisomers due to restricted rotation about the C–N bond.

Use the spectra below to identify the compound, including the stereochemistry of the major isomer.

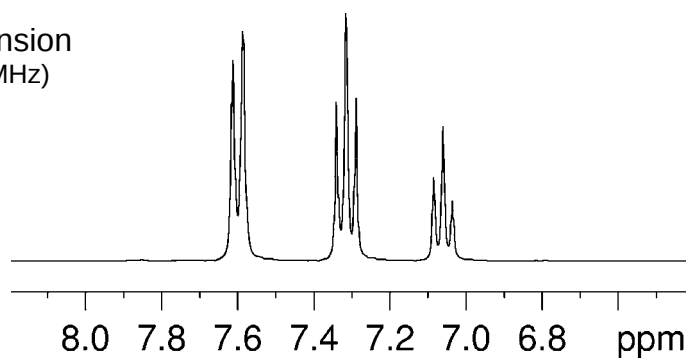
Molecular Formula: $C_{10}H_{11}NO_2$



1H NMR Spectrum
(DMSO- d_6 , 300 MHz)



1H NMR Expansion
(DMSO- d_6 , 300 MHz)



$^{13}C\{^1H\}$ NMR Spectrum
(DMSO- d_6 , 75 MHz)

