

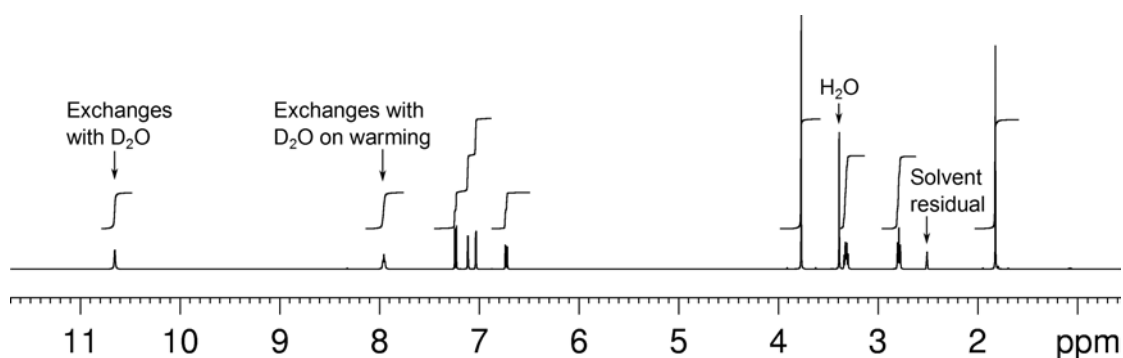
# Problem 64

Identify the following compound.

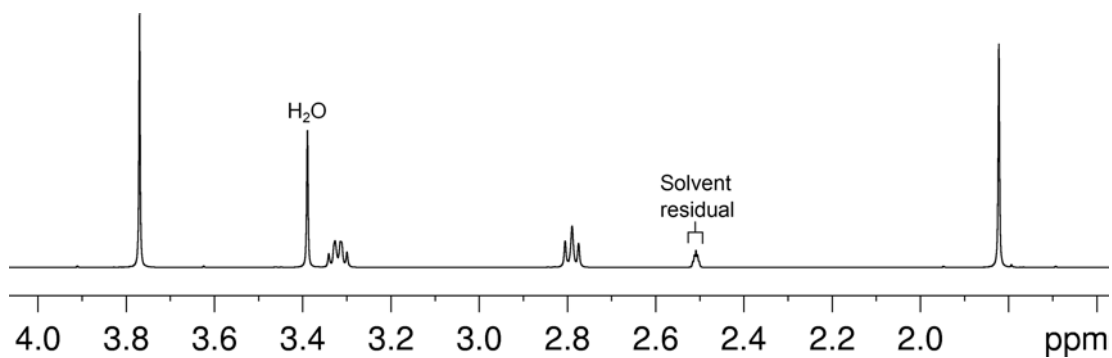
Molecular Formula:  $C_{13}H_{16}N_2O_2$

IR: 3305, 1629, 1620, 1566  $cm^{-1}$

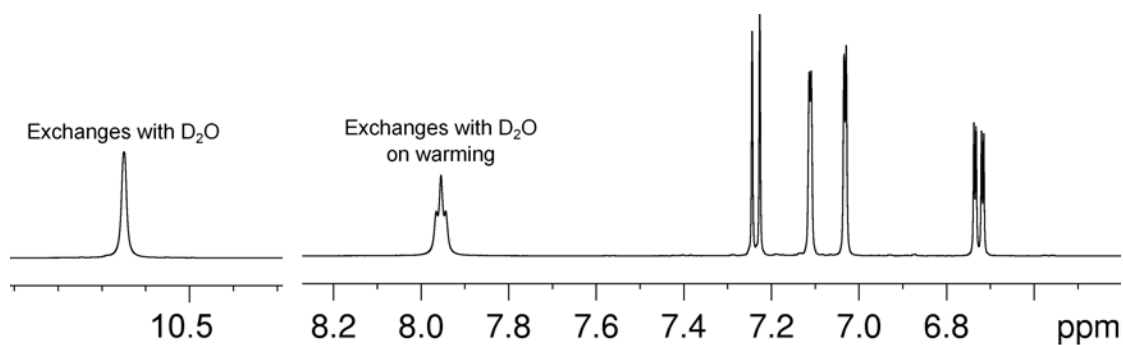
$^1H$  NMR Spectrum  
(DMSO- $d_6$ , 500 MHz)



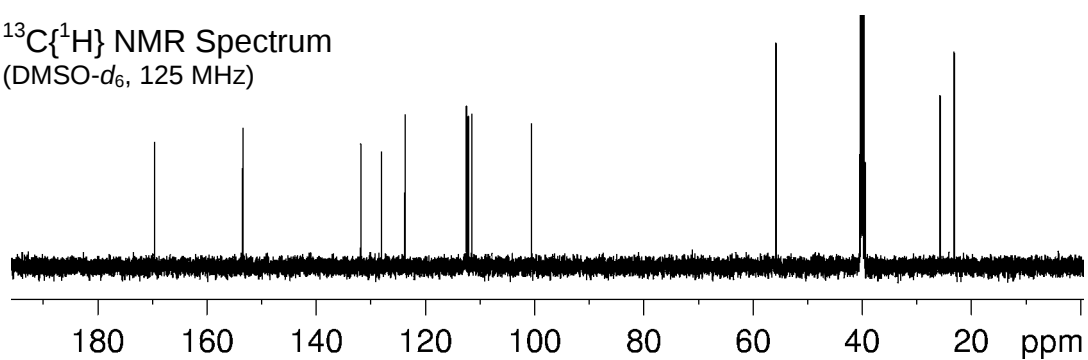
$^1H$  NMR Expansion 1  
(DMSO- $d_6$ , 500 MHz)



$^1H$  NMR Expansion 2  
(DMSO- $d_6$ , 500 MHz)



$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum  
(DMSO- $d_6$ , 125 MHz)



$^{13}\text{C}\{^1\text{H}\}$  NMR Expansions  
(DMSO- $d_6$ , 125 MHz)

