IR spectrum (liquid film)

mass spectrum

UV spectrum
no significant absorption above 210 nm

20MHz carbon-13 NMR spectrum
CDCl₃ solution
off-resonance decoupled
proton decoupled

100MHz proton NMR spectrum
CDCl₃ solution
4x expansion
problem 6

IR spectrum
(liquid film)

mass spectrum

UV spectrum
5.662mg/10ml EtOH
1cm cell

20MHz carbon-13
NMR spectrum
CDCl₃ solution

off-resonance decoupled

proton decoupled

100MHz proton NMR spectrum
CDCl₃ solution

exchanges
with H₂O
problem 7

IR spectrum (liquid film)

mass spectrum

UV spectrum
5.815mg/10ml EtOH
1cm cell

20MHz carbon-13 NMR spectrum
CDCl₃

5x expansion
off-resonance decoupled

proton decoupled

100MHz proton NMR spectrum
CDCl₃ solution

exchanges with D₂O