

2. C₉H₁₃NO

¹³C NMR

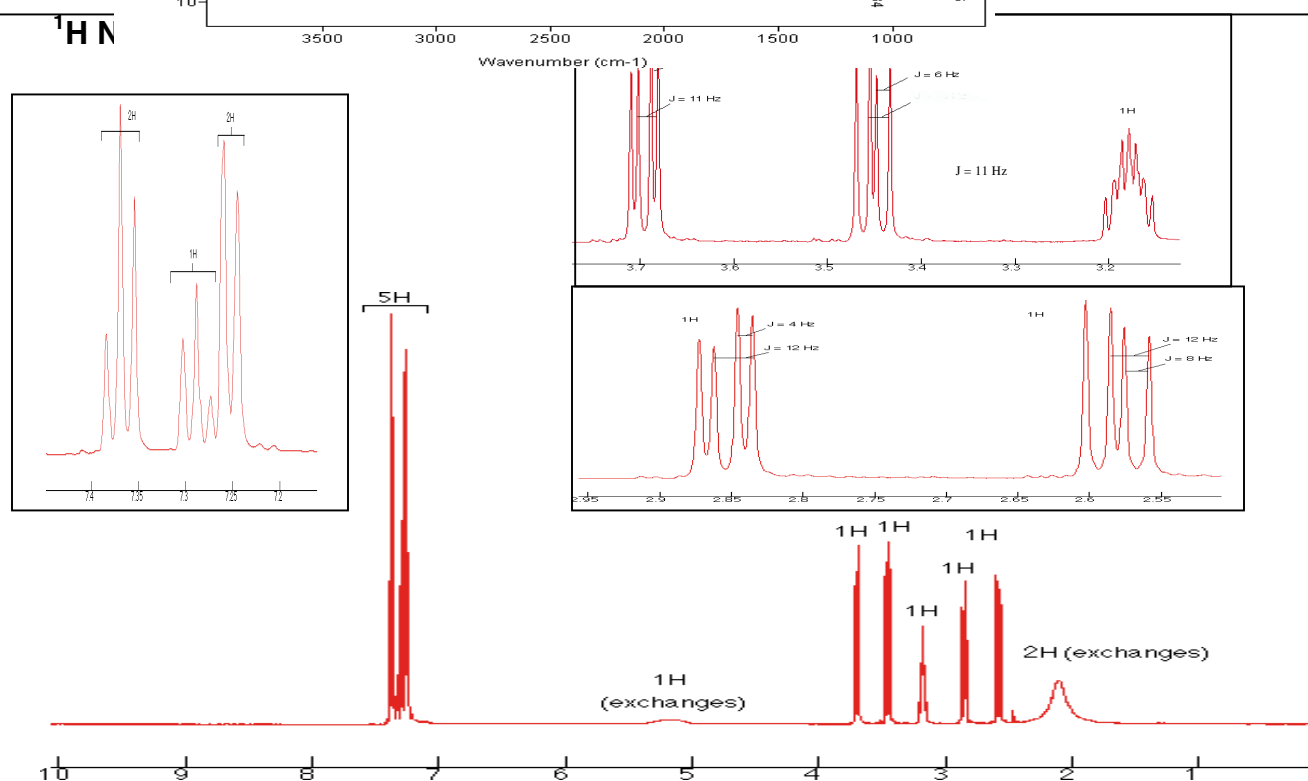
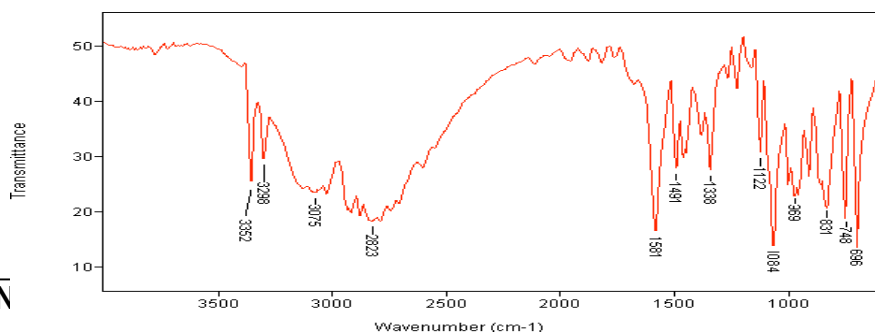
138.6, s
 129.1, d (2)
 128.3, d (2)
 126.3, d
 66.2, t
 54.1, d
 40.8, t

¹H NMR

7.40–7.22, m, 5H
 5.2 broad s, 1H (exchanges with D₂O)
 3.69, dd, 1H, J = 11 and 3 Hz
 3.45, dd, 1H, J = 11 and 6 Hz
 3.17, m, 1H
 2.86, dd, 1H, J=12 and 4 Hz
 2.58, dd, 1H, J = 12 and 8 Hz
 2.1, broad s, 2H

MS: 151 (M⁺, 92), 134 (3), 120 (100), 103 (22), 91 (40), 77 (12), 65 (9), 60 (90), 42 (9), 30 (4), 28 (2)

IR:



2. (continued)

^{13}C chemical shift assignments

^1H Chemical shift assignments

^1H coupling constant assignments

IR assignments

2. (Continued)

Mass spectrum assignments

3. C₁₀H₁₈O₂

IR: 2960, 2931, 1722, 1646, 1457, 1417, 1186, 1035, 824 cm⁻¹

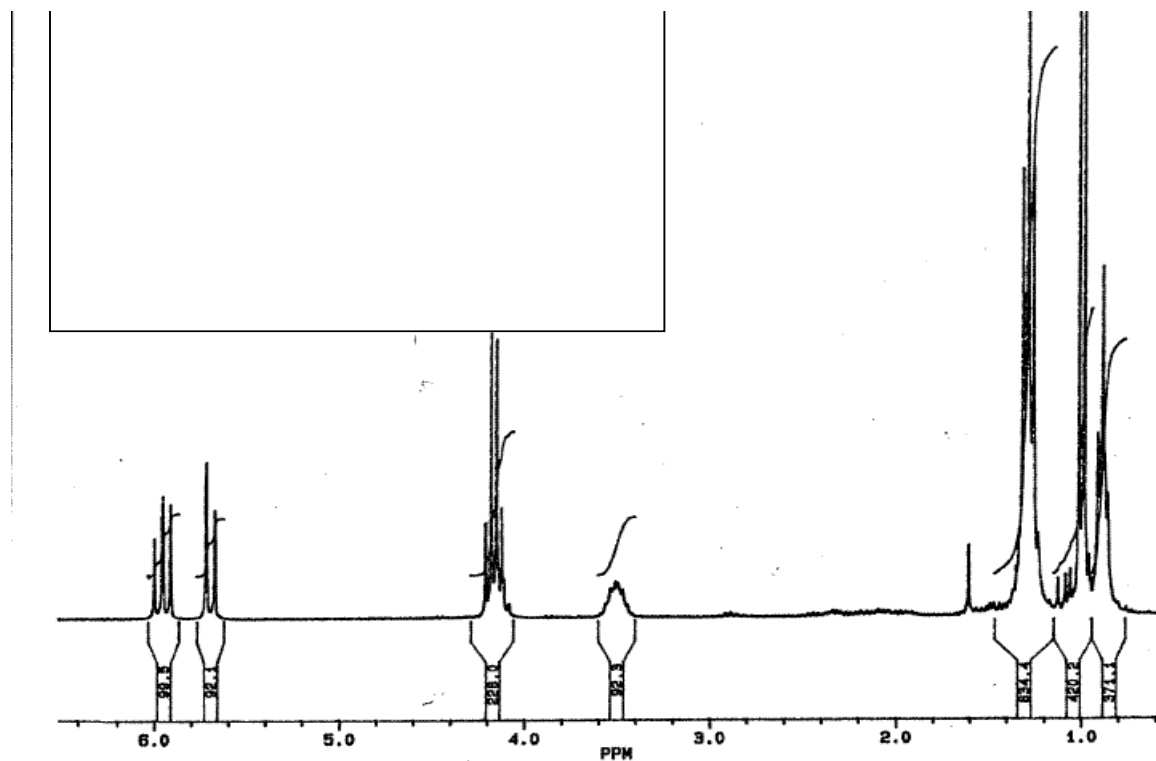
MS (m/z): 170, 141, 125, 113, 95, 83, 82, 71, 67, 55

¹³C NMR

166.4, s
156.0, d
118.2, d
59.7, t
39.2, t
32.4, d
20.7, t
20.2, q
14.2, q
14.1, q

¹H NMR

5.92, dd, J=10.2, 11.5, 1H
5.68, d, J=11.5 Hz, 1H
4.15, q, J=7.2 Hz, 2H
3.50, m, 1H
1.27, t, J=7.1 Hz, 3H
1.2-1.3, m, 4H
0.99, d, J=6.6 Hz, 3H
0.88, t, J=7.2 Hz, 3H



3. (Continued)

^{13}C chemical shift assignments

^1H Chemical shift assignments

^1H coupling constant assignments

IR assignments