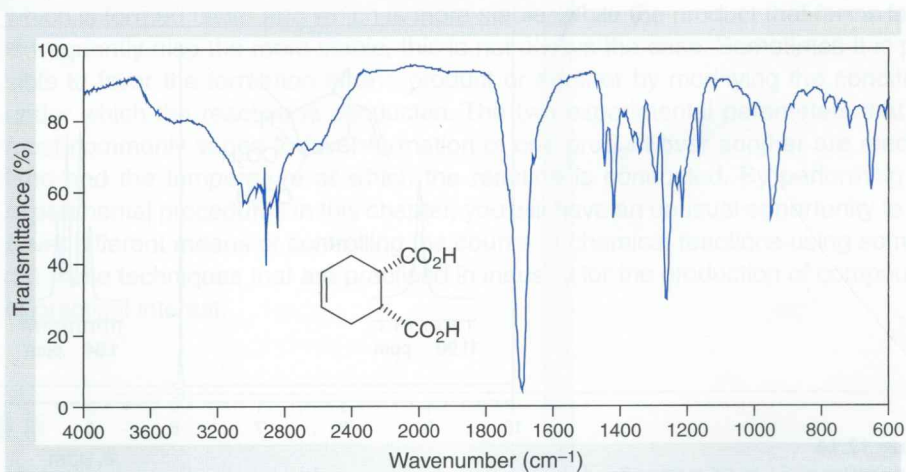
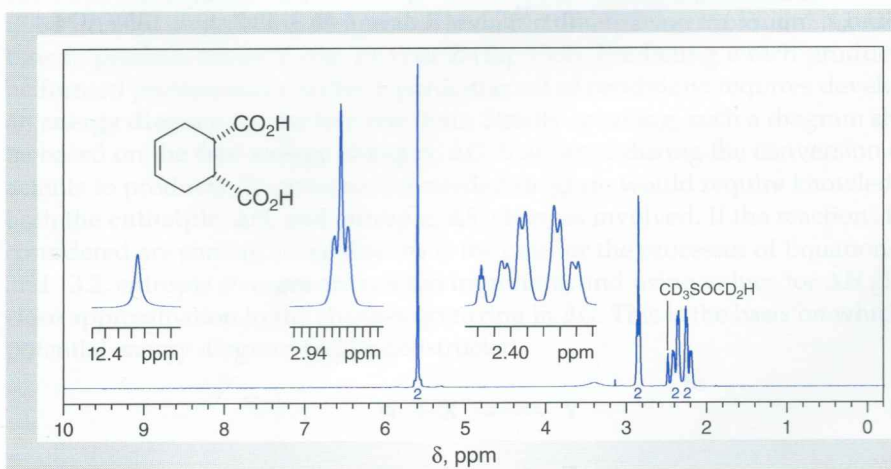
**Figure 12.10**

NMR data for bicyclo[2.2.1]hept-5-ene-endo-2,3-dicarboxylic anhydride (CDCl_3).

- (a) ^1H NMR spectrum (300 MHz).
 (b) ^{13}C NMR data: δ 47.6, 53.5, 136.1, 171.9.

**Figure 12.11**

IR spectrum of 4-cyclohexene-cis-1,2-dicarboxylic acid (IR card).

**Figure 12.12**

NMR data for 4-cyclohexene-cis-1,2-dicarboxylic acid ($\text{DMSO}-d_6$).

- (a) ^1H NMR spectrum (300 MHz).
 (b) ^{13}C NMR data: δ 25.9, 39.2, 125.2, 174.9.