

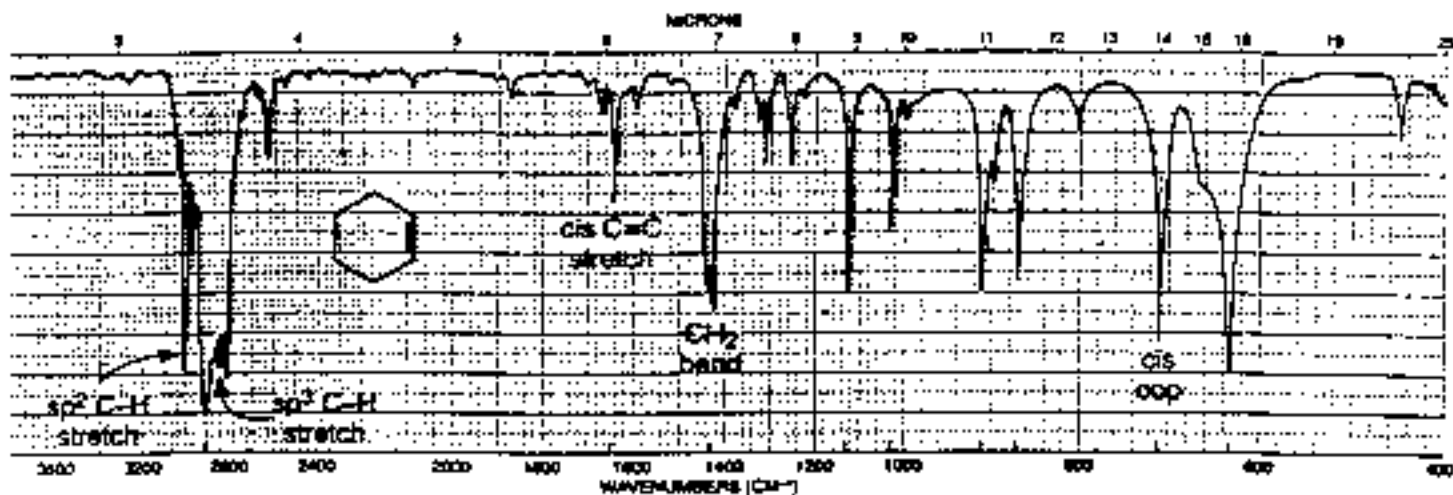
► FIGURE 2.10 The infrared spectrum of 1-hexene (neat liquid, KBr plates).

SP<sup>2</sup> above 3000

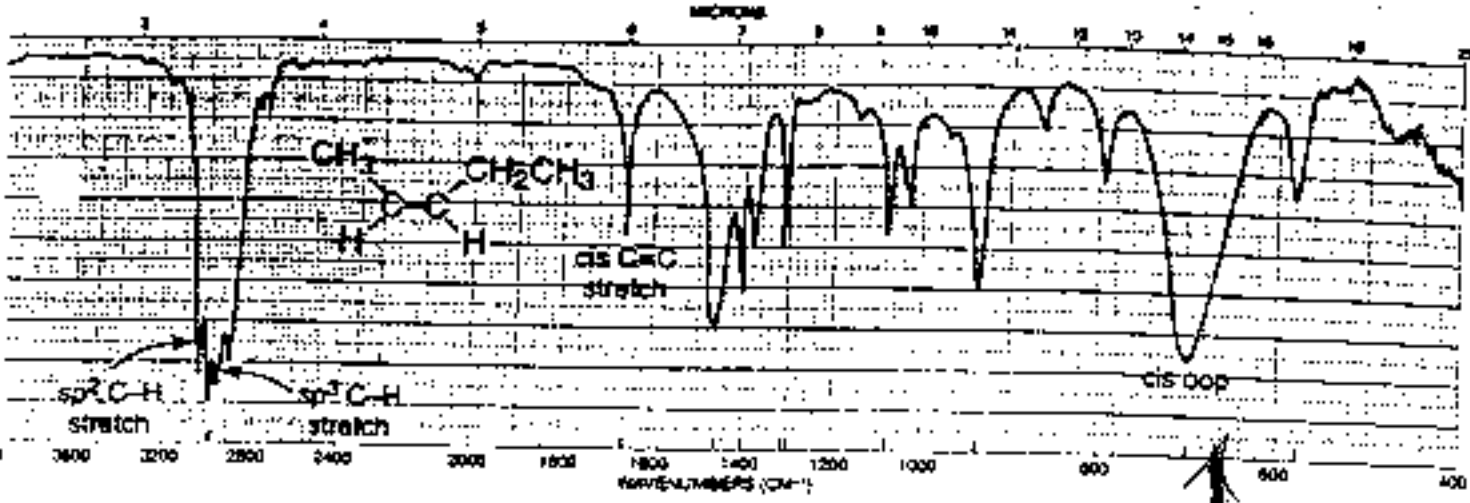
C=C ~ 1600

OOP banding

(2500 - 1000)



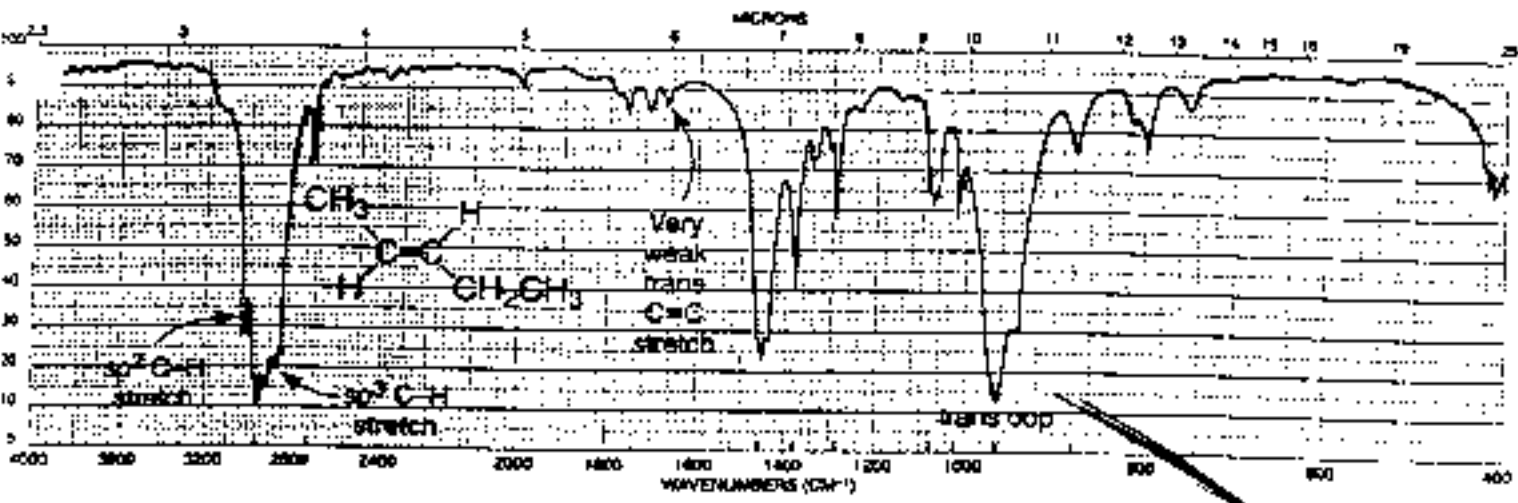
► FIGURE 2.11 The infrared spectrum of cyclohexene (neat liquid, KBr plates).



► FIGURE 2.12 The infrared spectrum of *cis*-2-pentene (neat liquid, KBr plates).

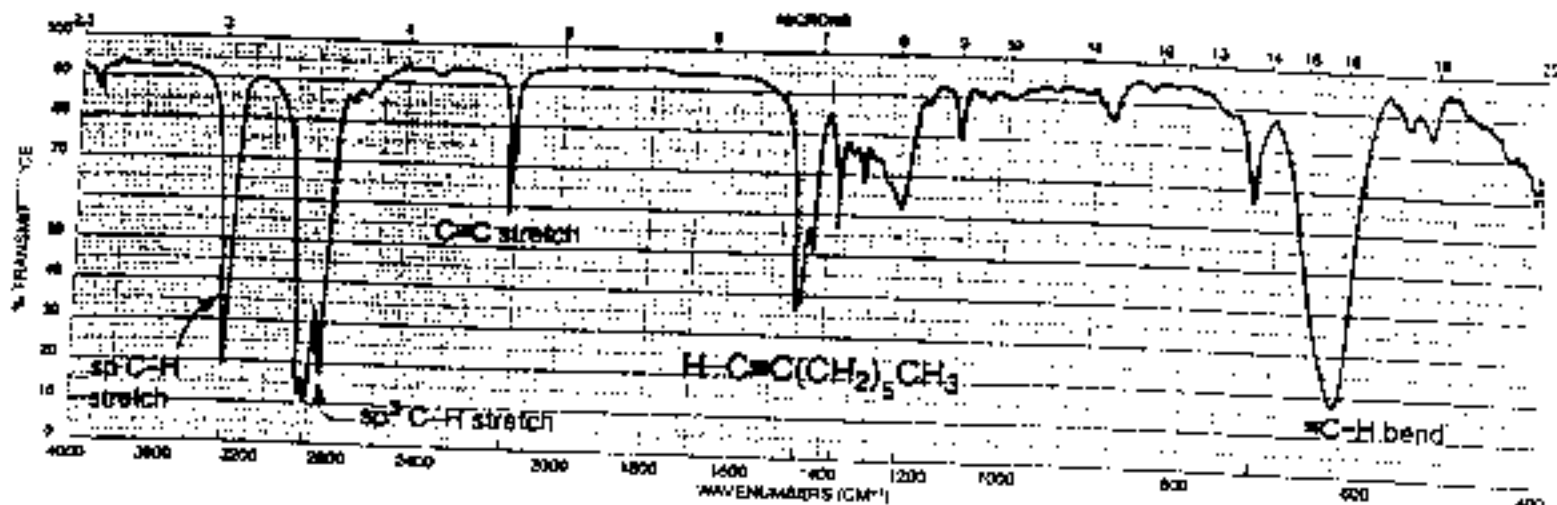
700

INFRARED SPECTROSCOPY



► FIGURE 2.13 The infrared spectrum of *trans*-2-pentene (neat liquid, KBr plates).

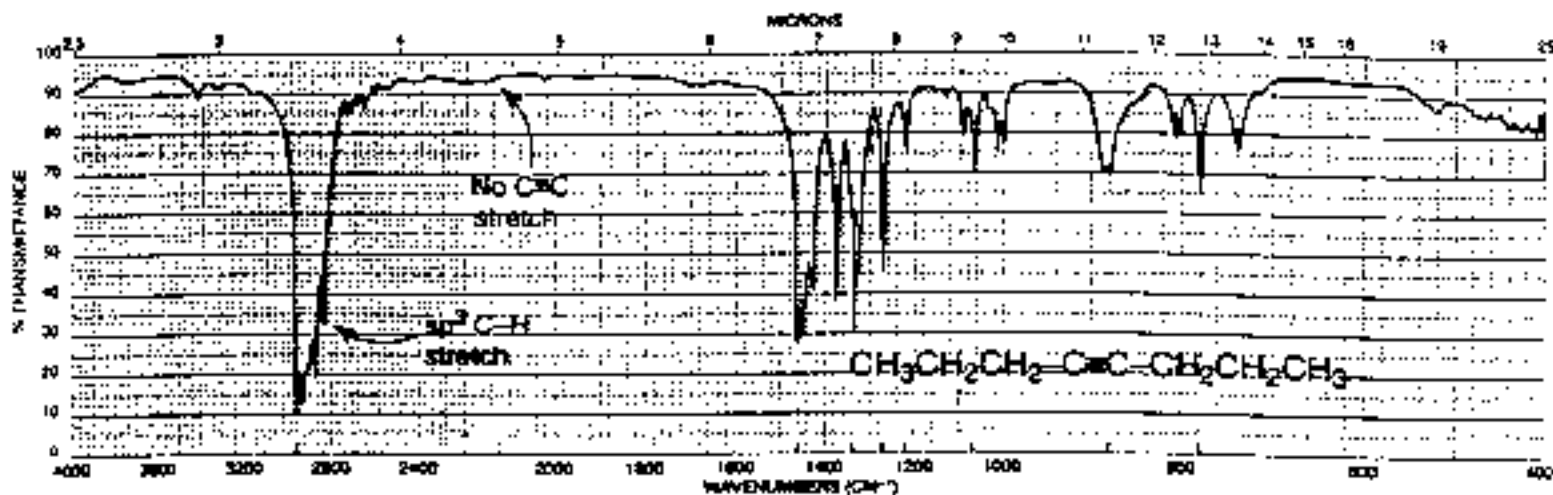
970



► FIGURE 2.14 The infrared spectrum of 1-octyne (neat liquid, KBr plates).

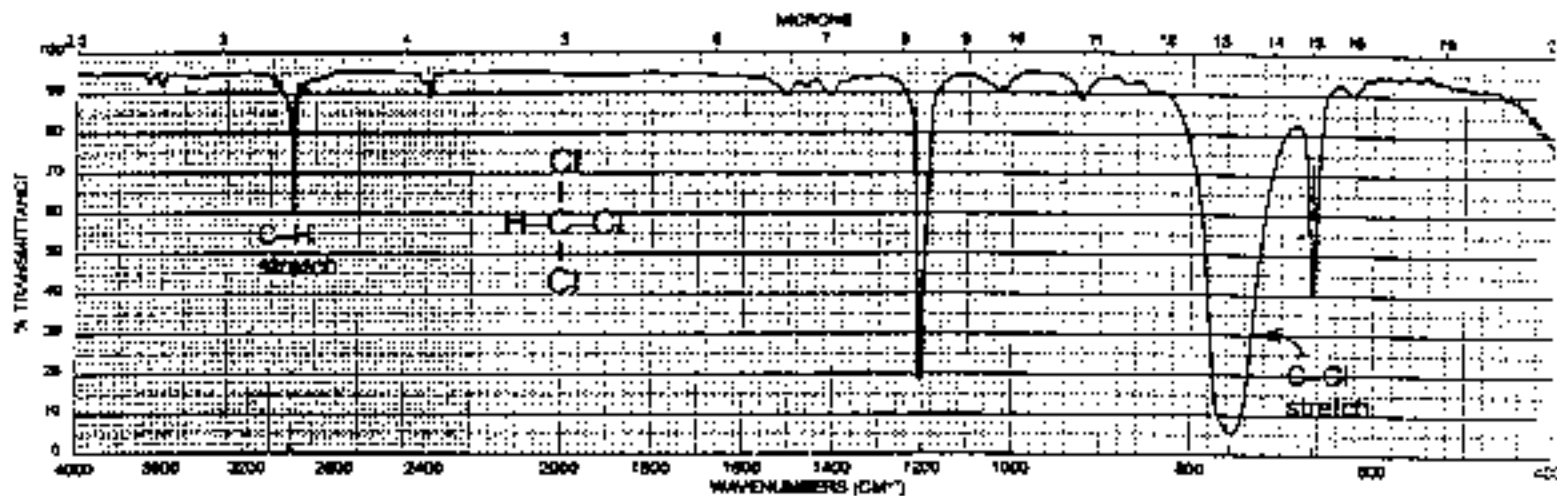
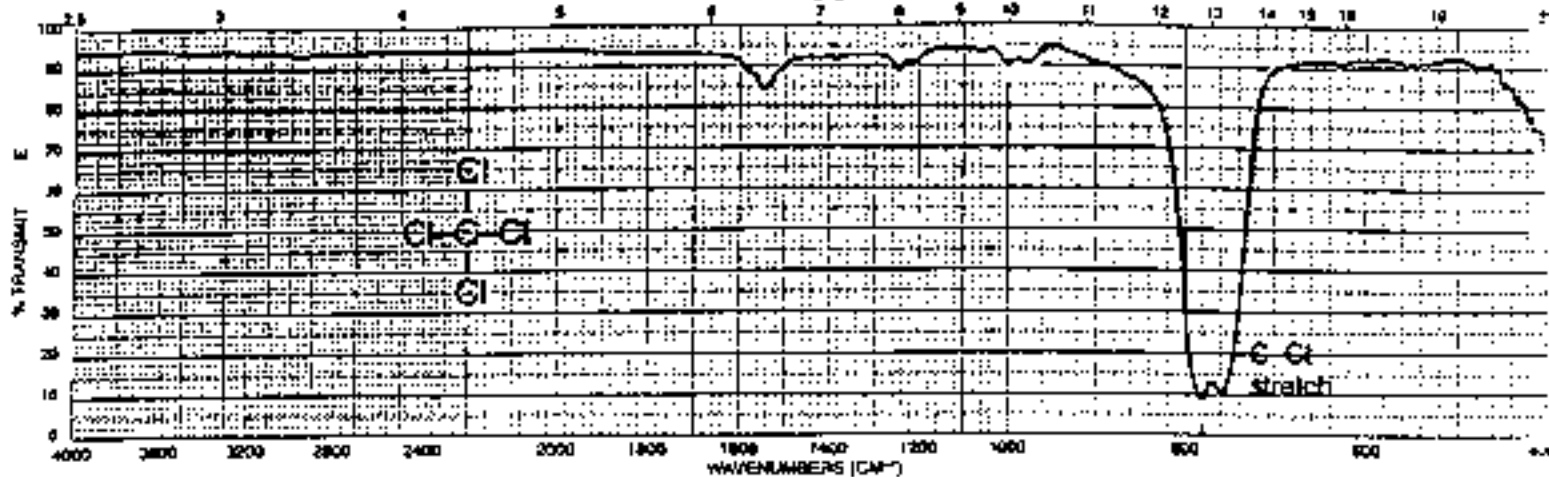
3300  
2150

2.10 HYDROCARBONS: ALKANES, ALKENES, AND ALKYNES 35

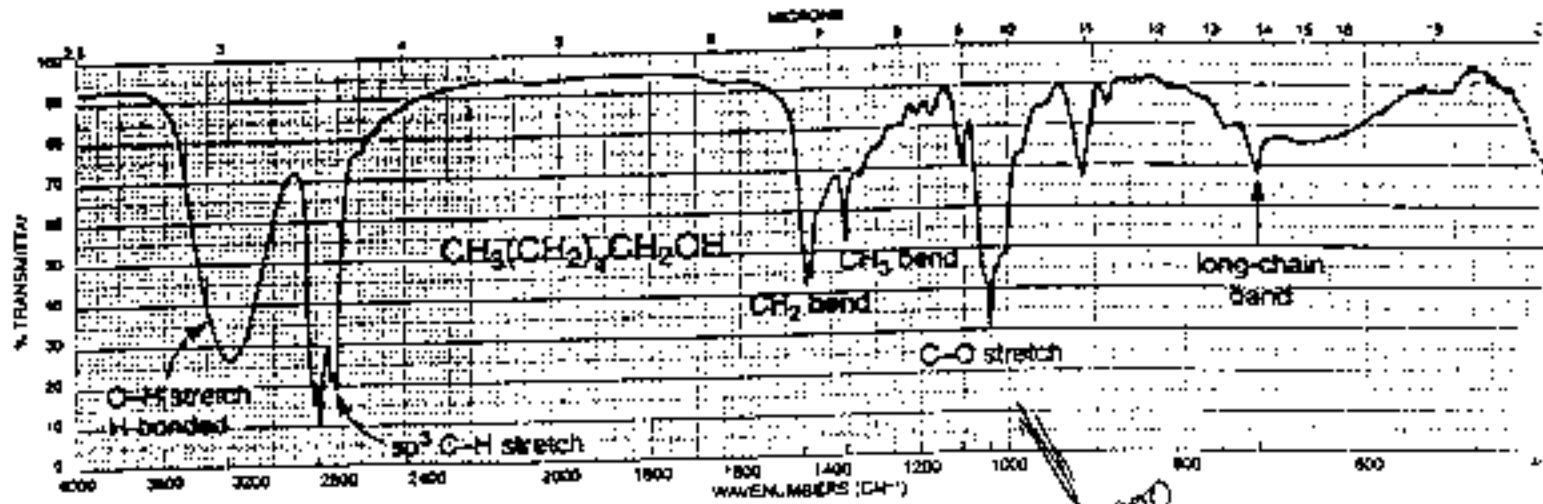


► FIGURE 2.15 The infrared spectrum of 4-octyne (neat liquid, KBr plates).

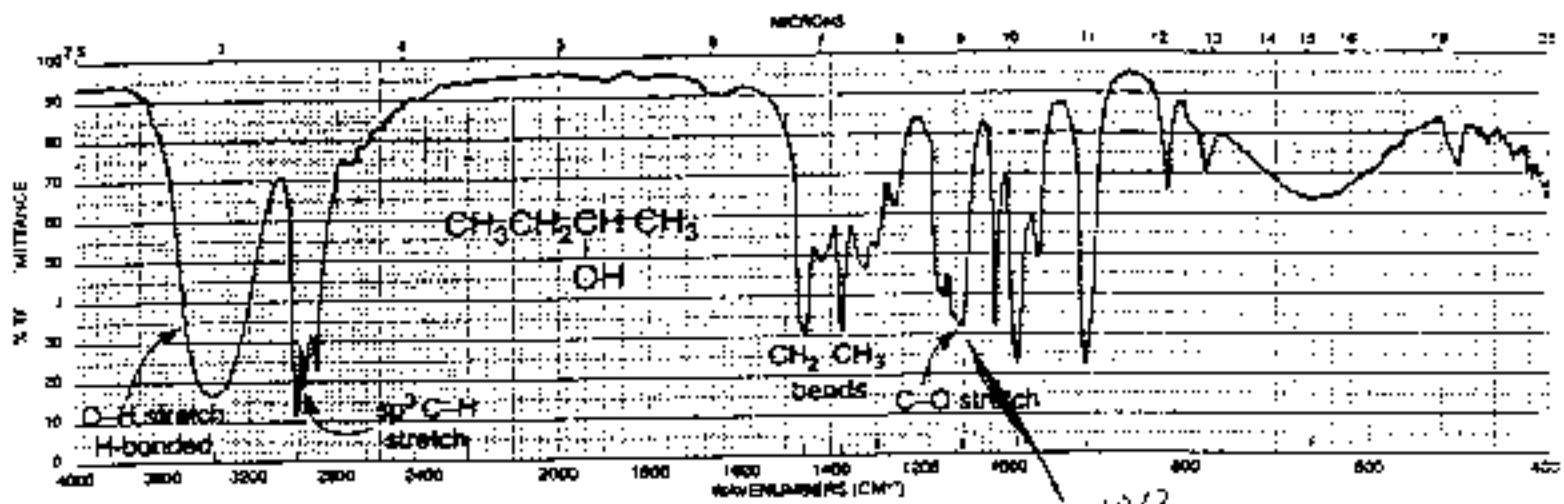
*Symmetrical*



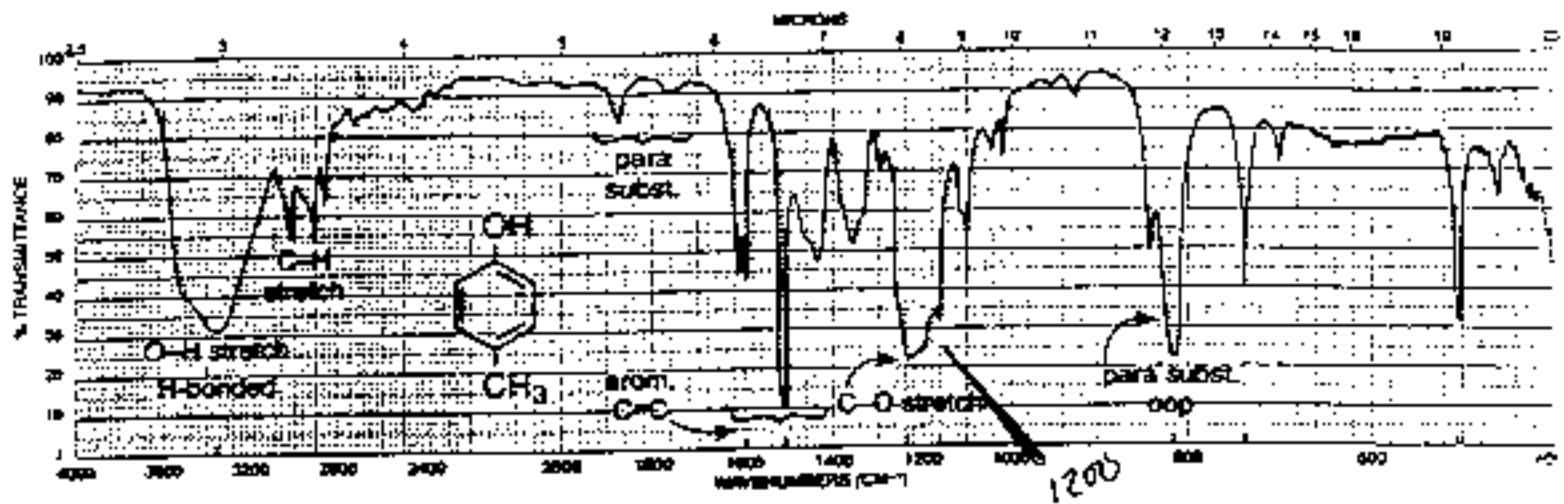
1000 - 1400



► FIGURE 2.29 The infrared spectrum of 1-hexanol (neat liquid, KBr plates).

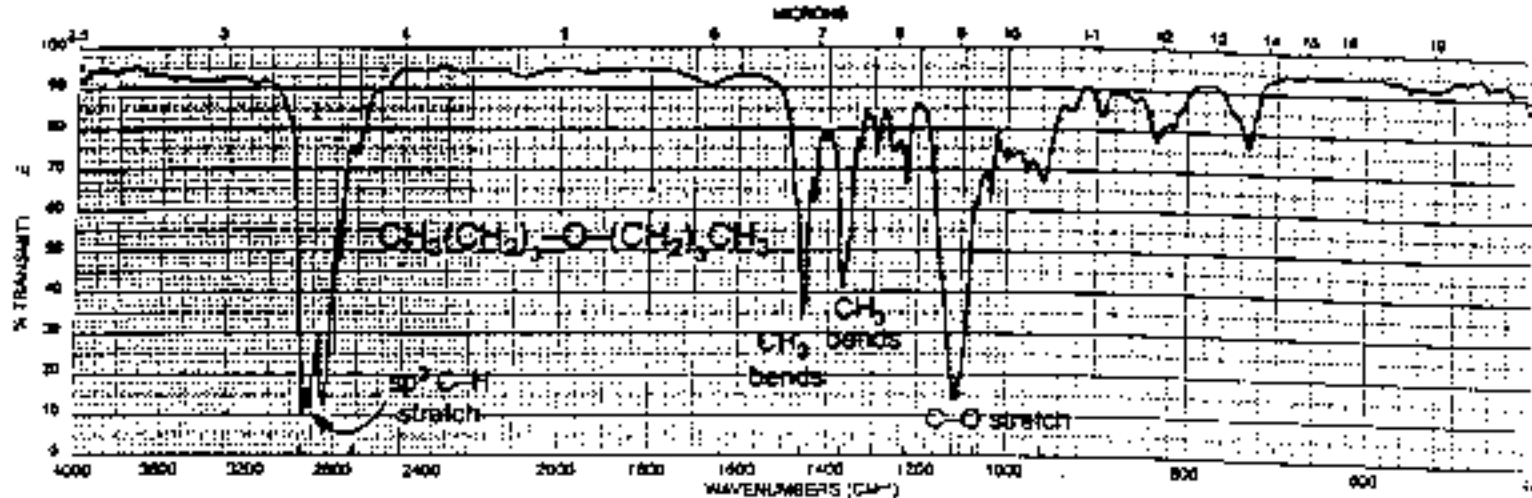


► FIGURE 2.30 The infrared spectrum of 2-butanol (neat liquid, KBr plates).

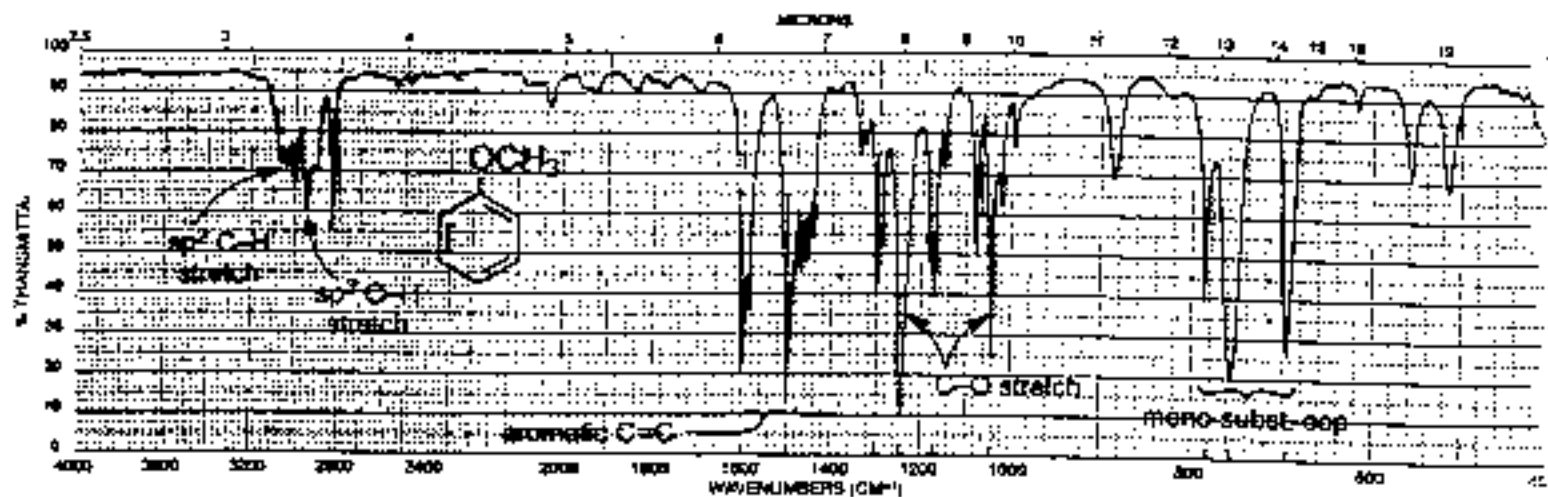


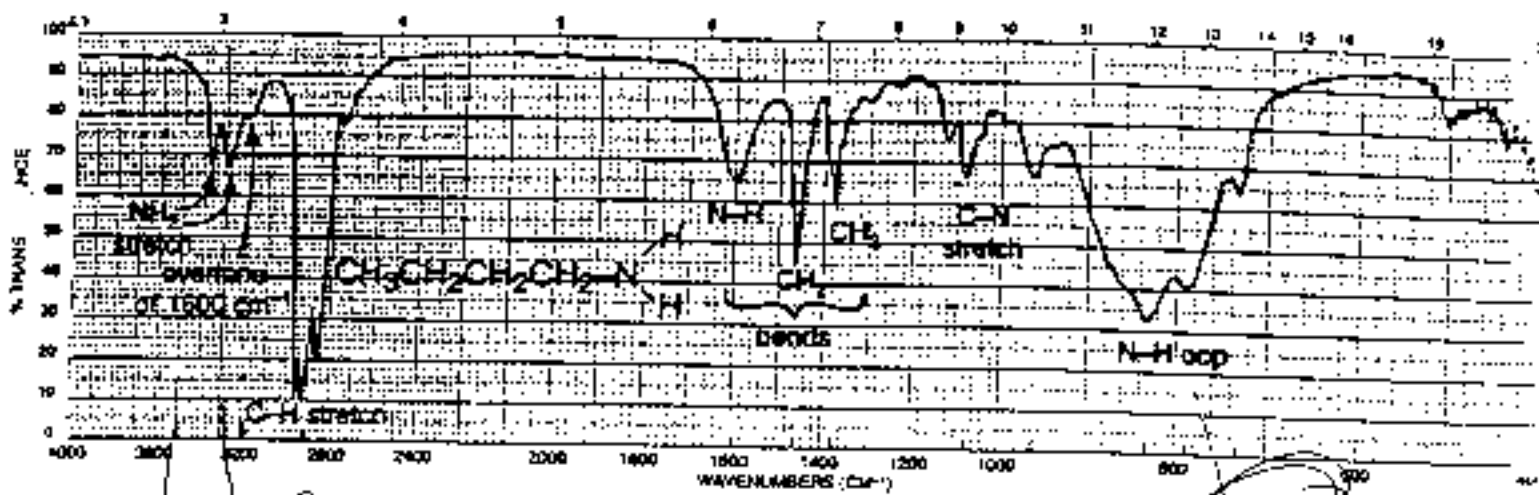
► FIGURE 2.31 The infrared spectrum of *para*-cresol (neat liquid, KBr plates).

8



▶ **FIGURE 2.33** The infrared spectrum of dibutyl ether (neat liquid, KBr plates).

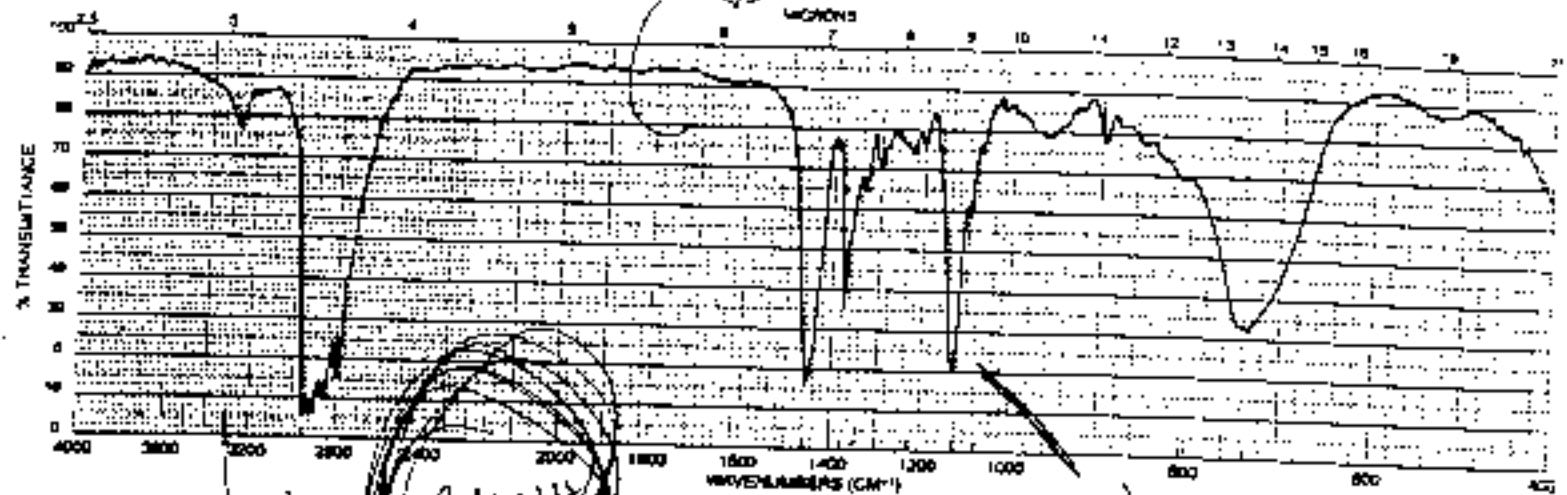




~~3400~~  
3300

Clayton  
Smith

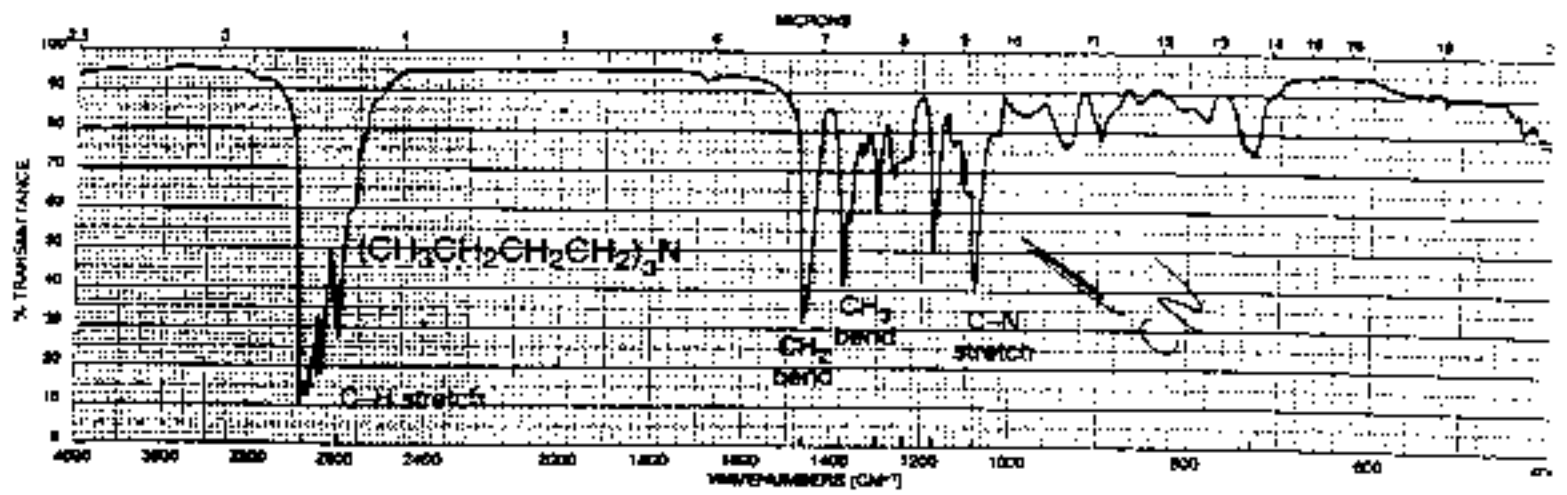
~~3400~~



3400

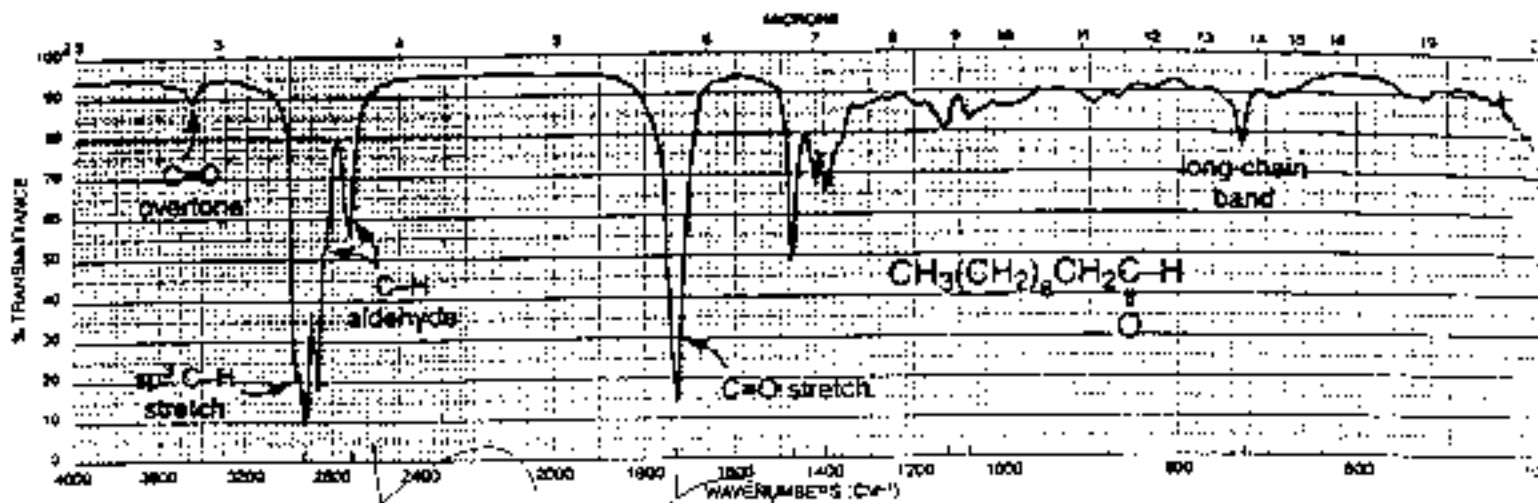
Bu<sub>2</sub>NH

CN



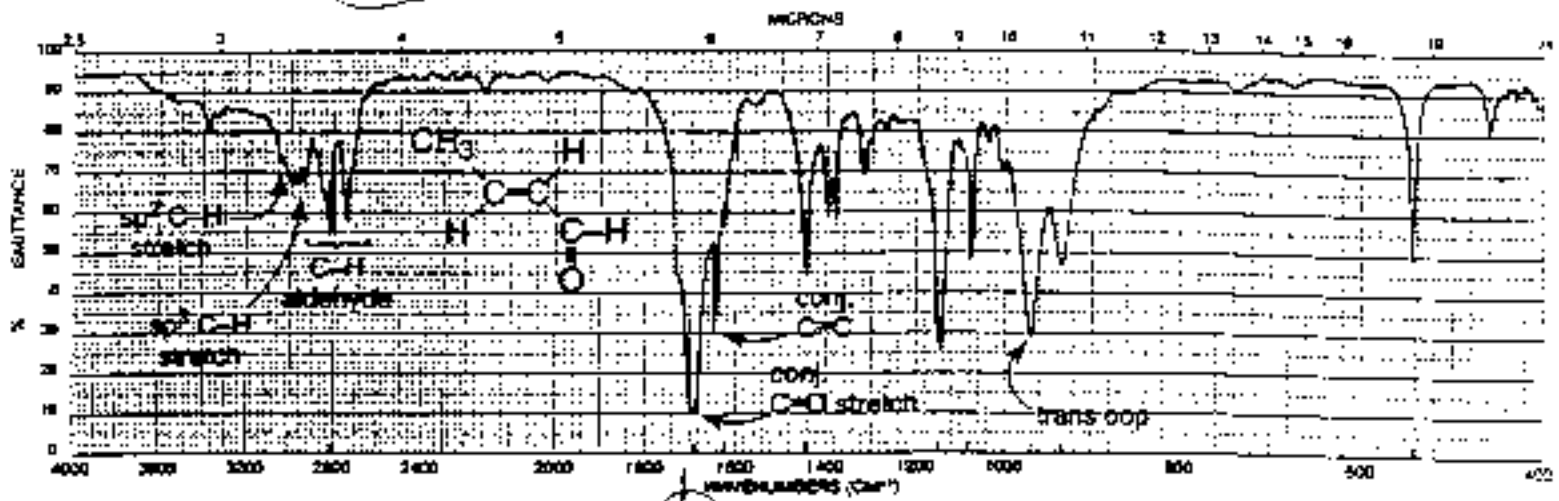
(CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>)<sub>3</sub>N

CN



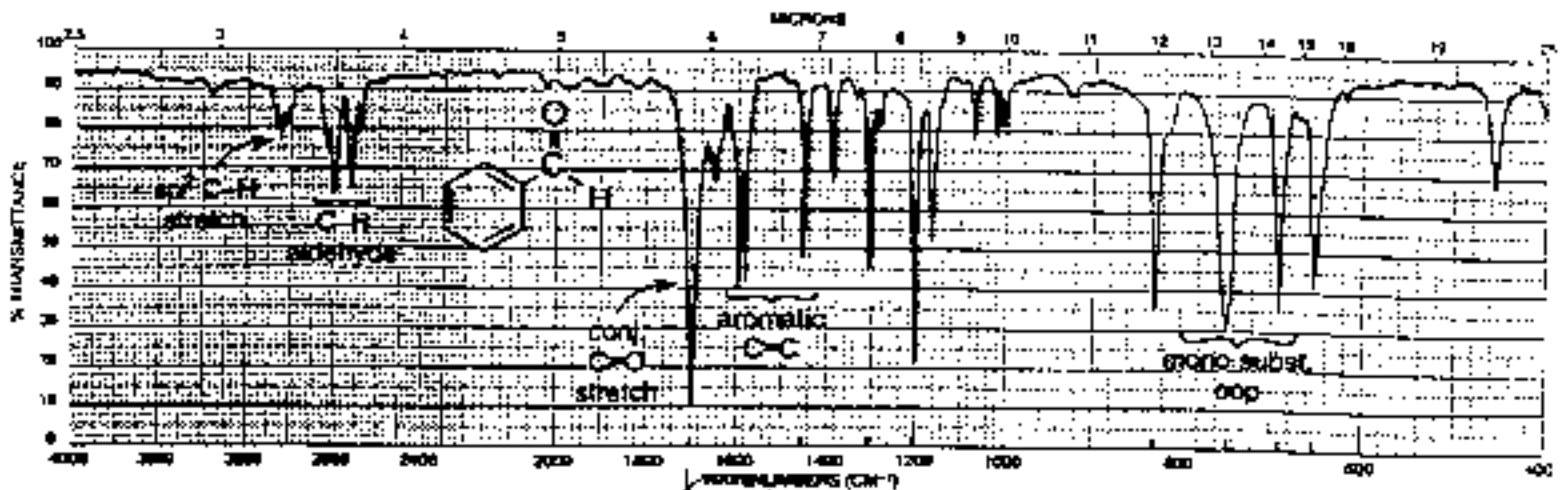
2725

1725



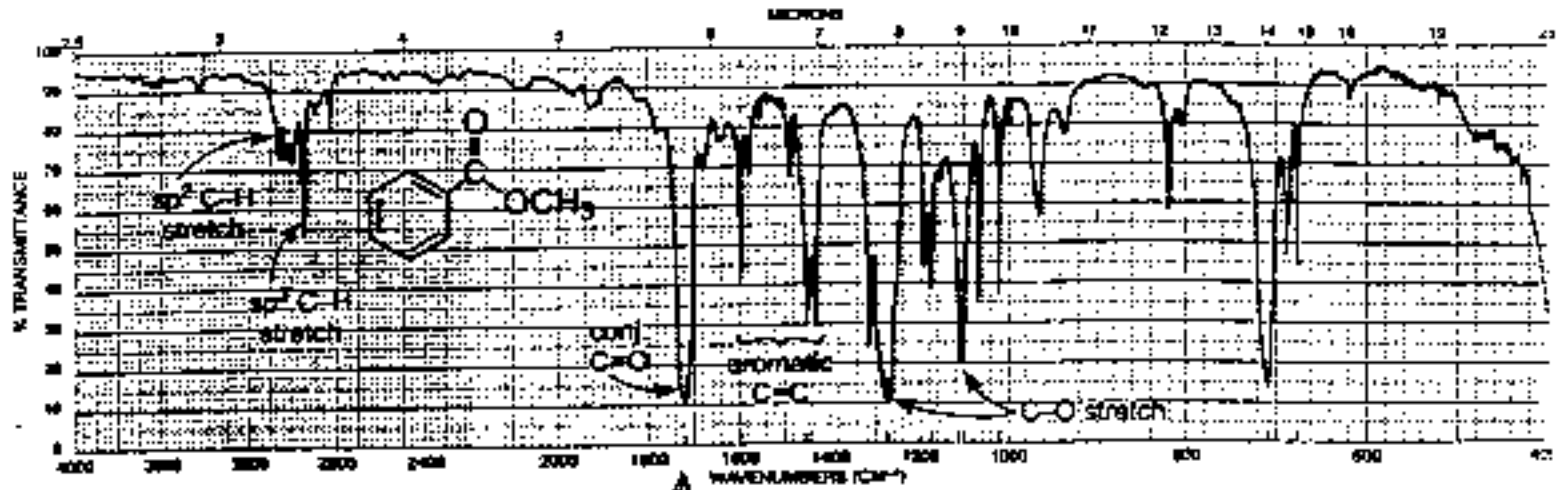
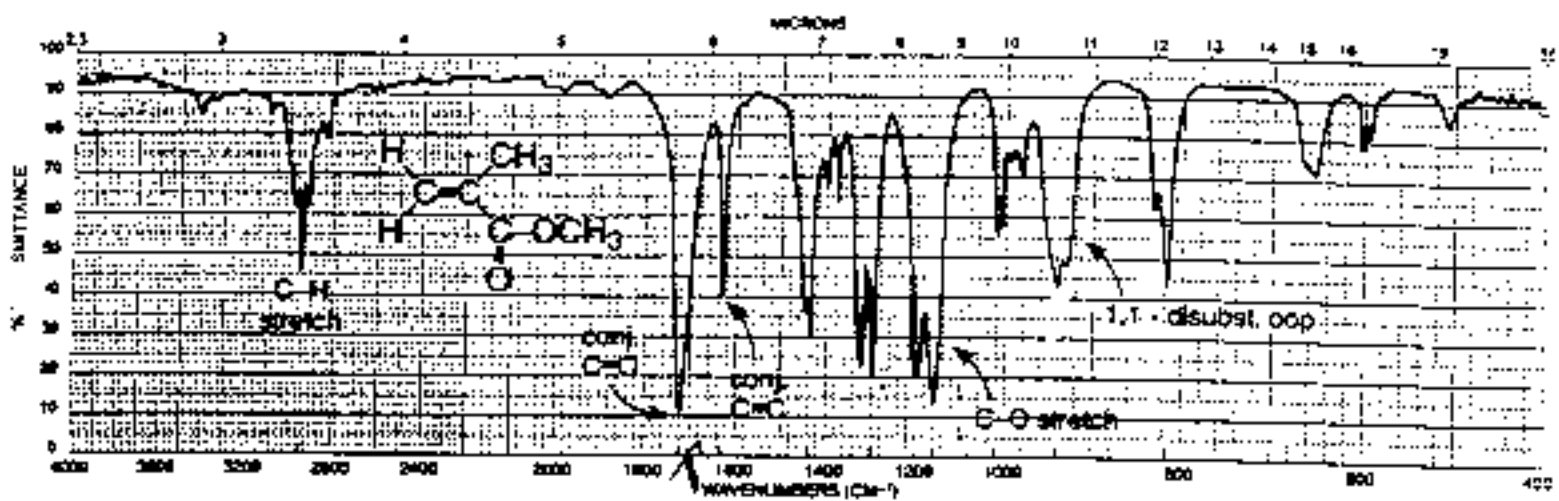
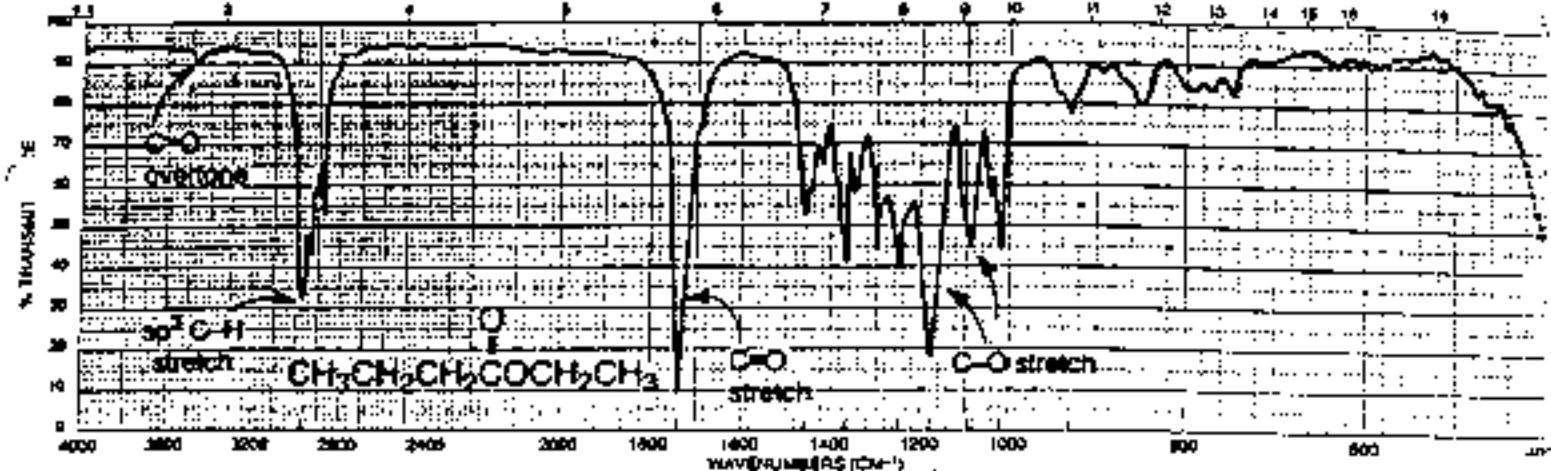
▶ **FIGURE 2.37** The infrared spectrum of crotonaldehyde (neat liquid, KBr plates).

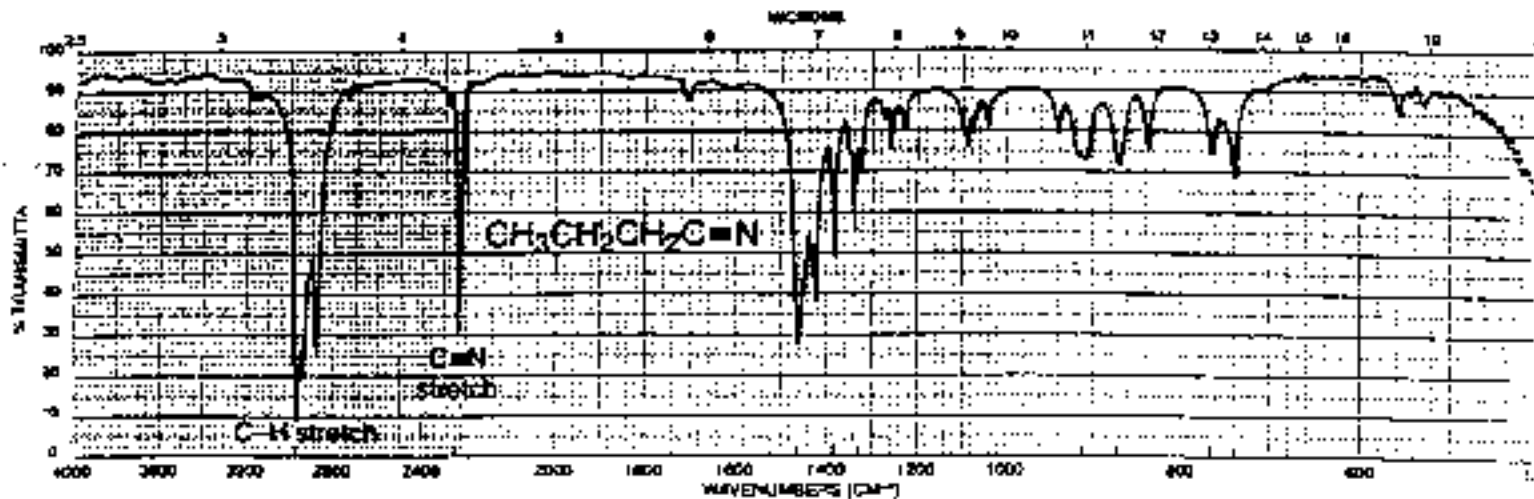
1640



1700







2250

C≡N 2250