

Lista de Exercícios 2 - Espectroscopia IV

Prof^a. Dr^a. Patrícia B. Brondani
(@Patyqmc)

1. Relacione os espectros abaixo com as seguintes moléculas:

(a) *n*-butil acetato

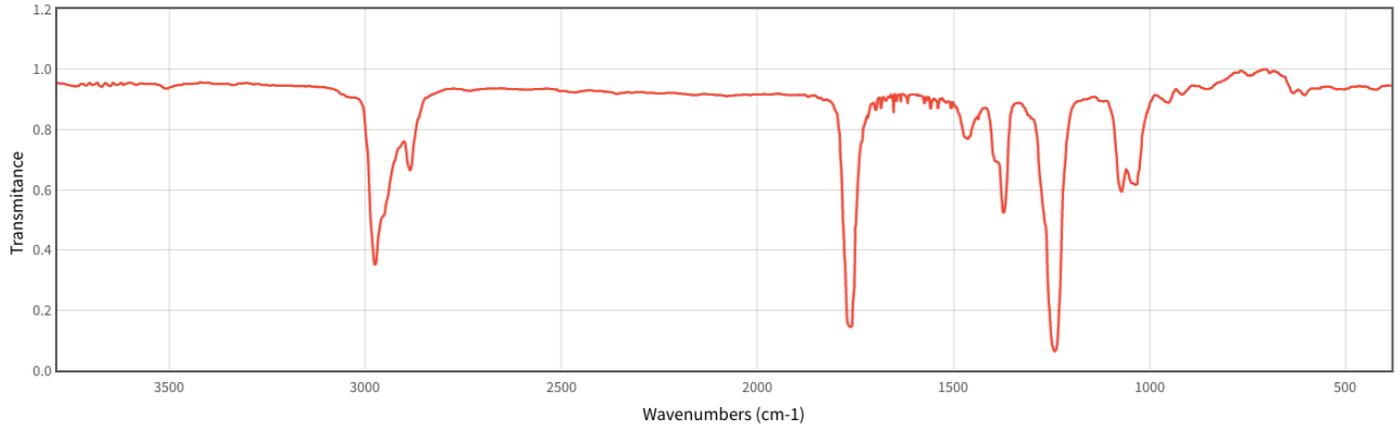
(b) Butilamida

(c) Isobutilamina

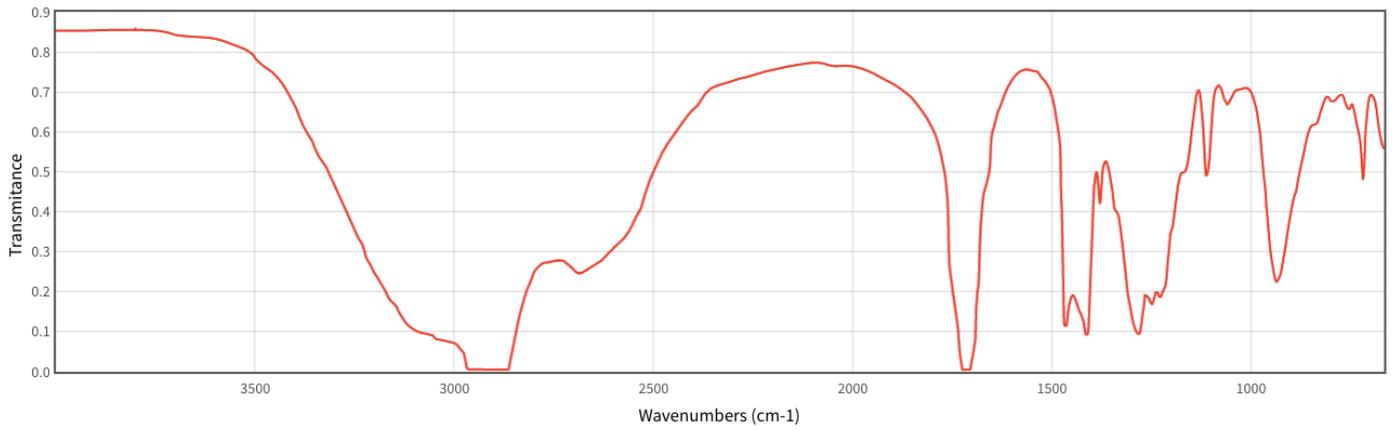
(d) Ácido decanóico

(e) Propionato de sódio

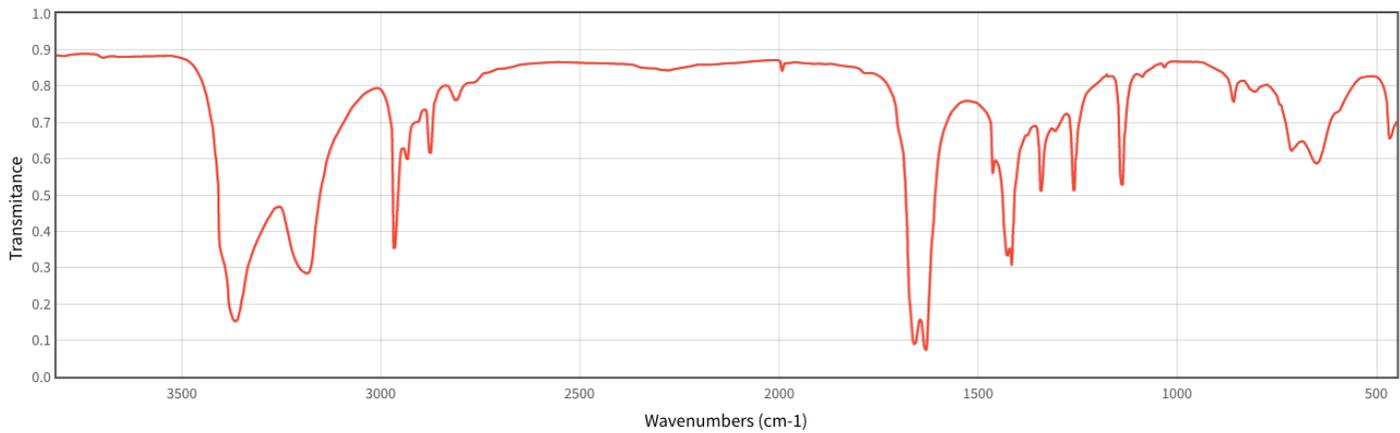
(I)



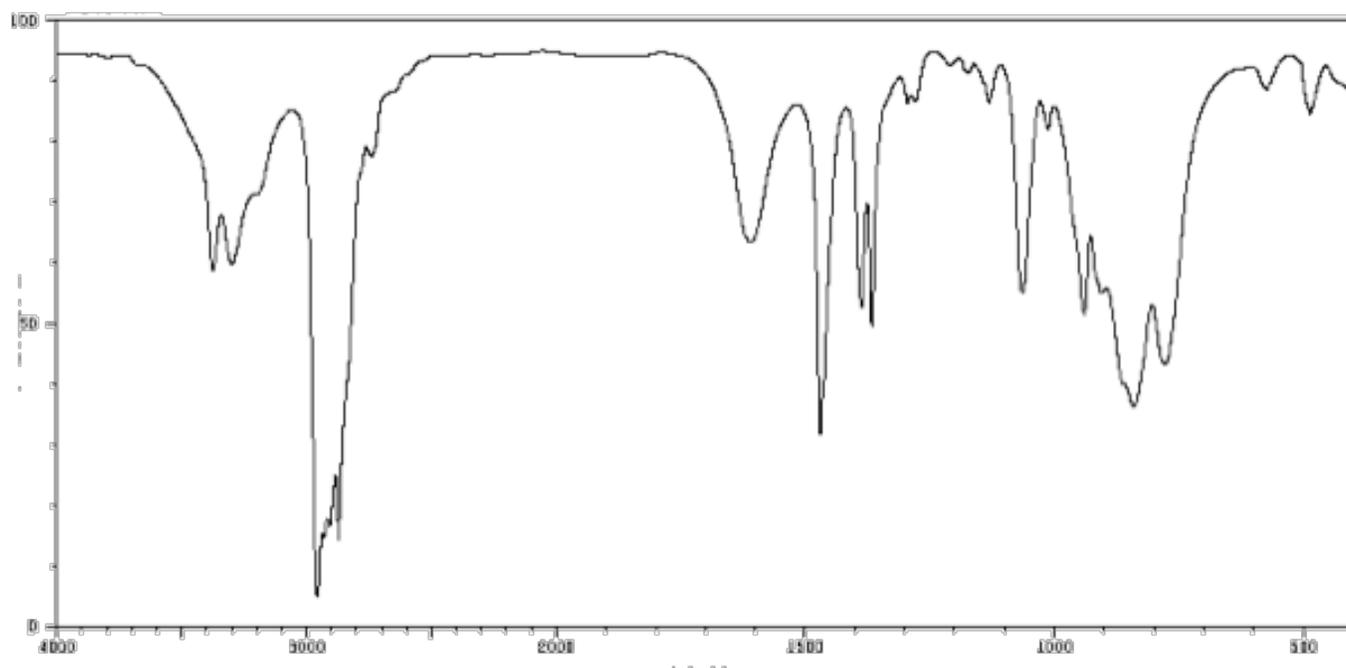
(II)



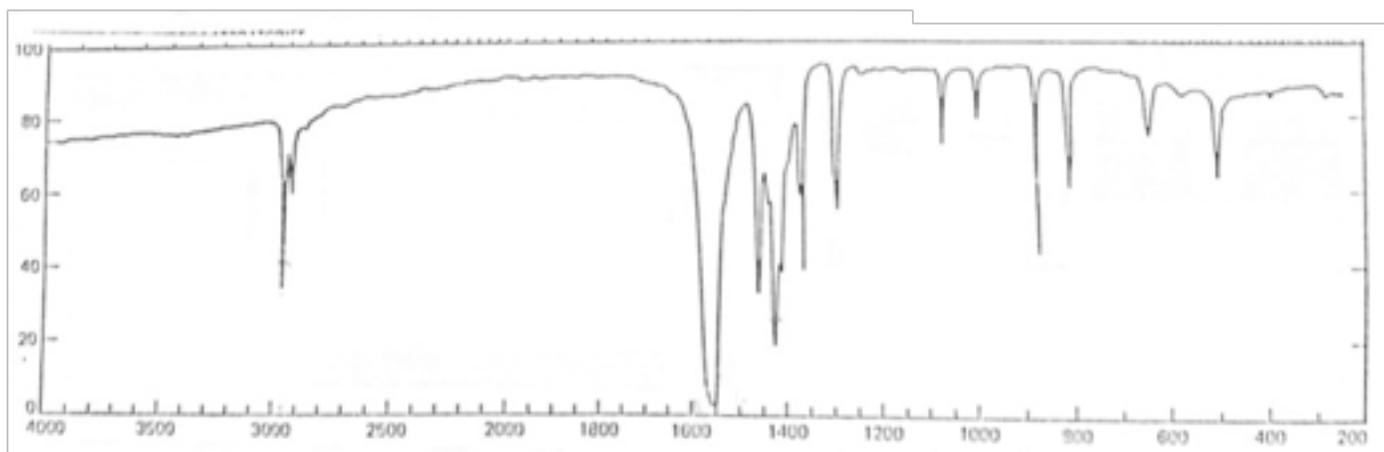
(III)



(IV)



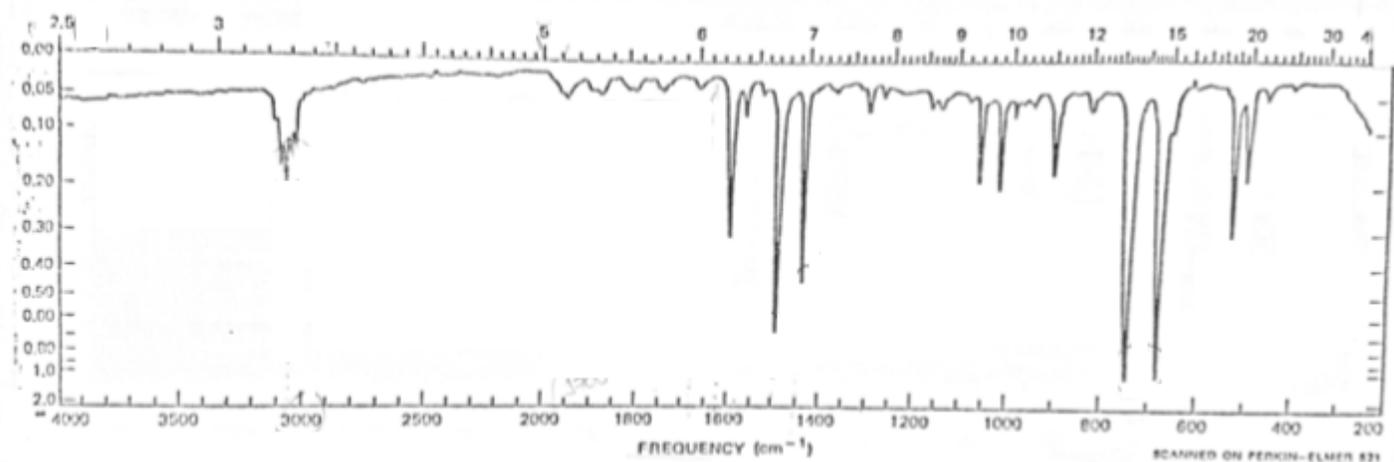
(V)



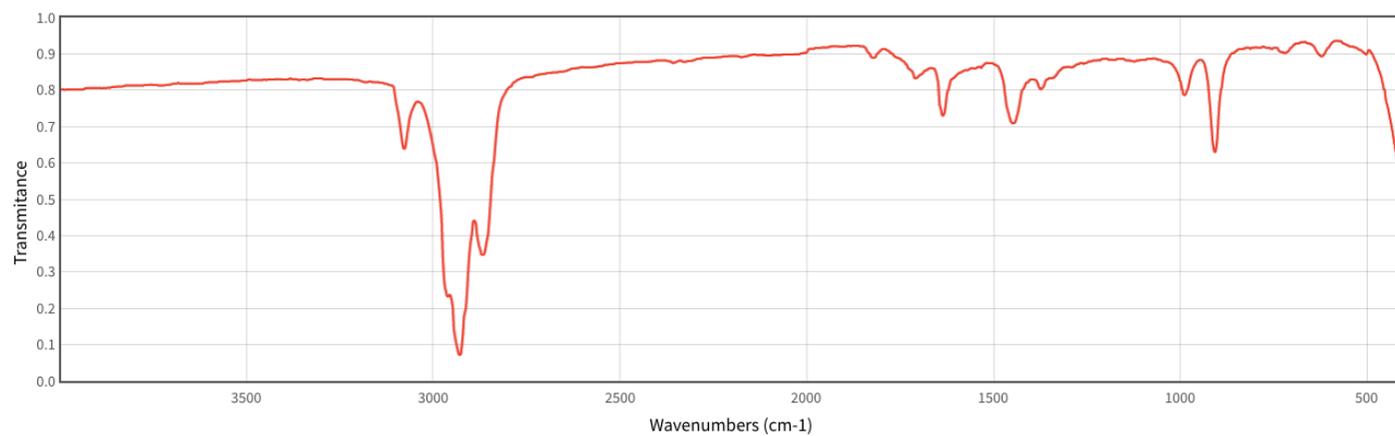
2. Relacione os espectros abaixo com as seguintes moléculas:

- (a) 1,3-ciclohexadieno
- (b) Difenilacetileno
- (c) 1-Octeno
- (d) *Trans*-2-Penteno

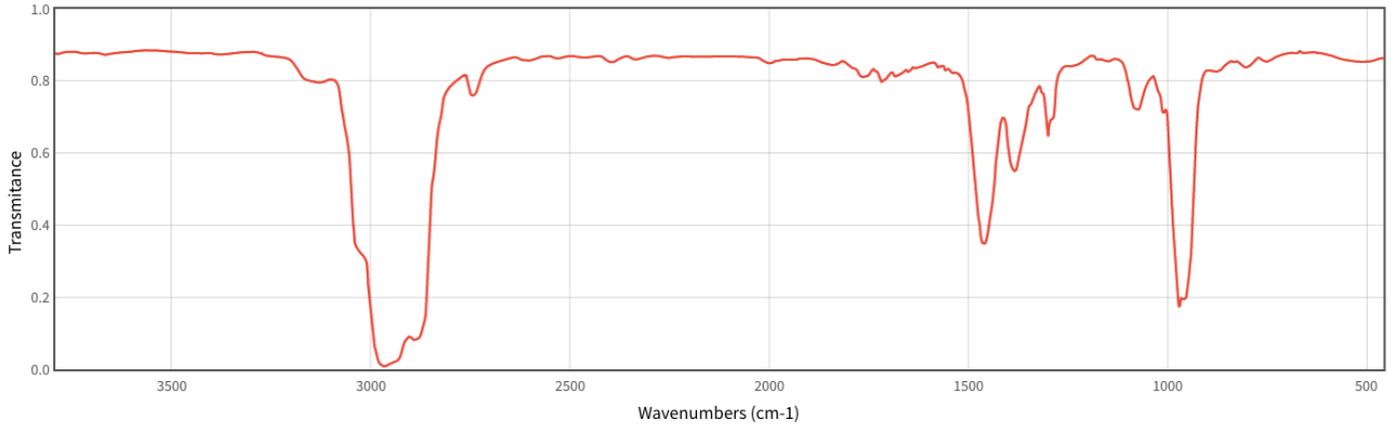
(I)



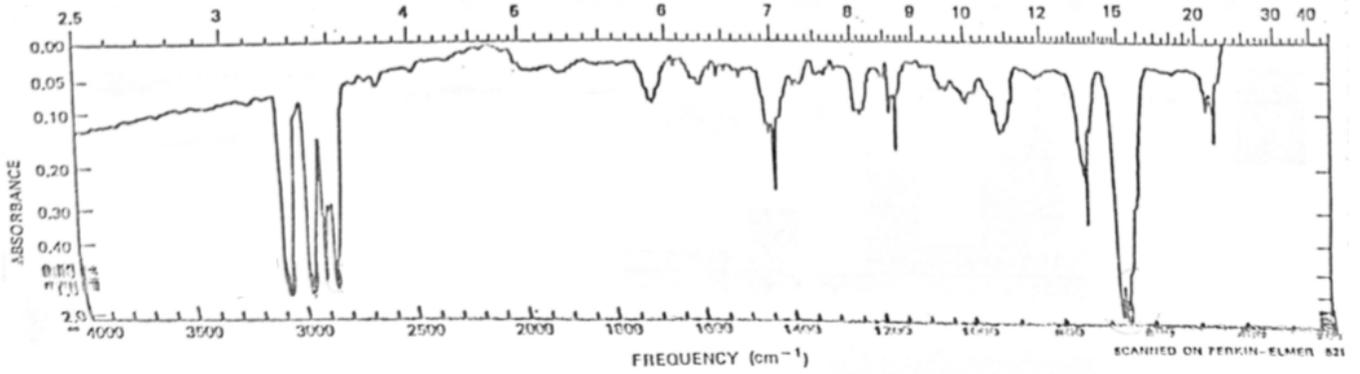
(II)



(III)

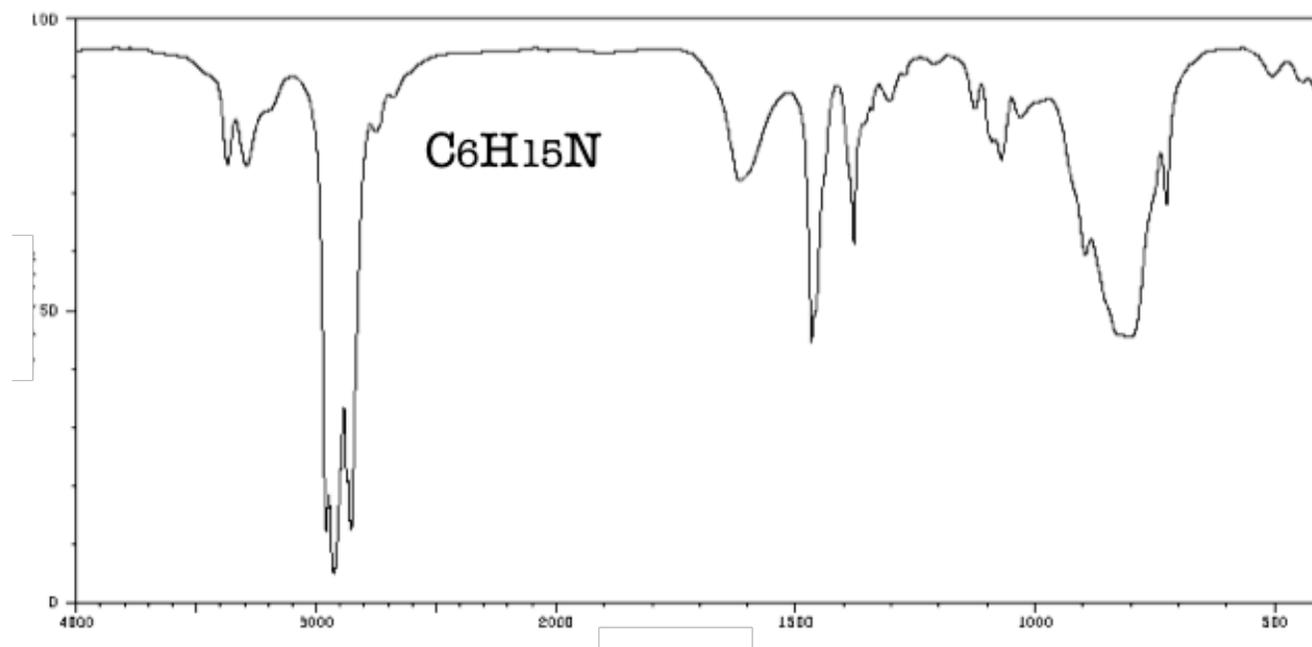


(IV)

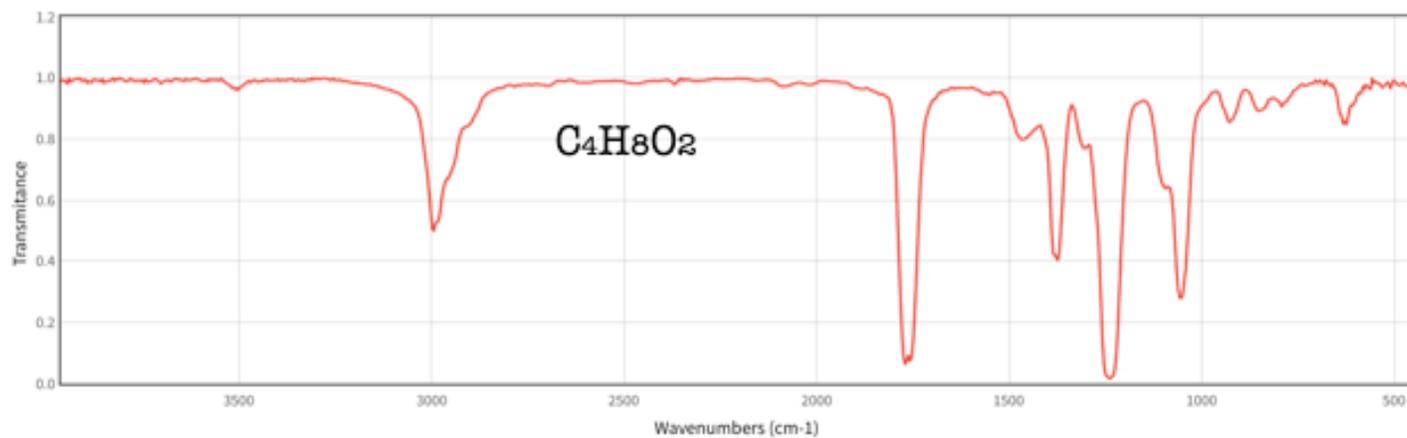


3. Justificar as principais bandas de IV, sugerir a estrutura provável e o grupo funcional.

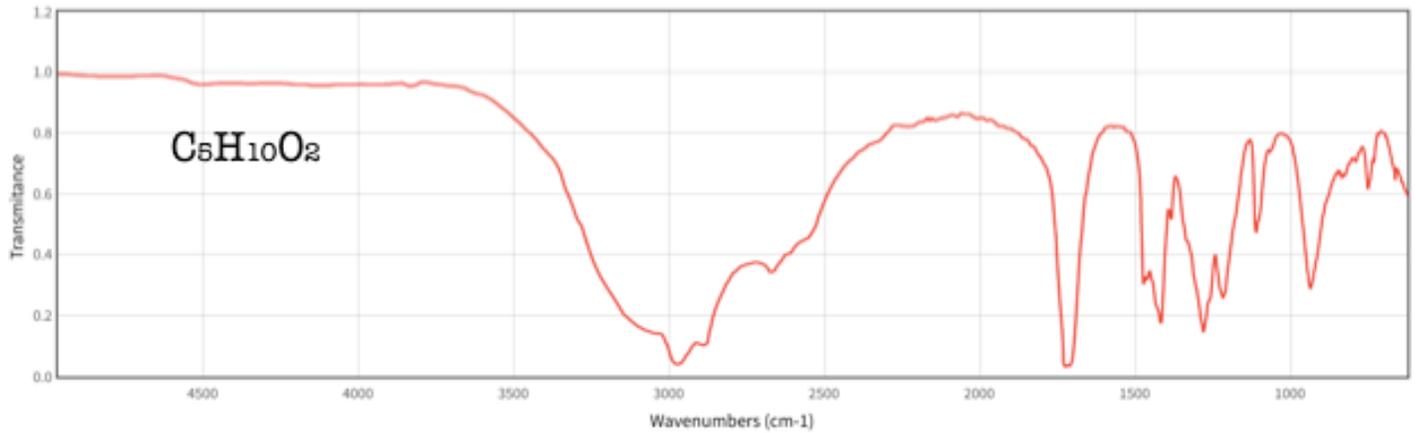
(a)



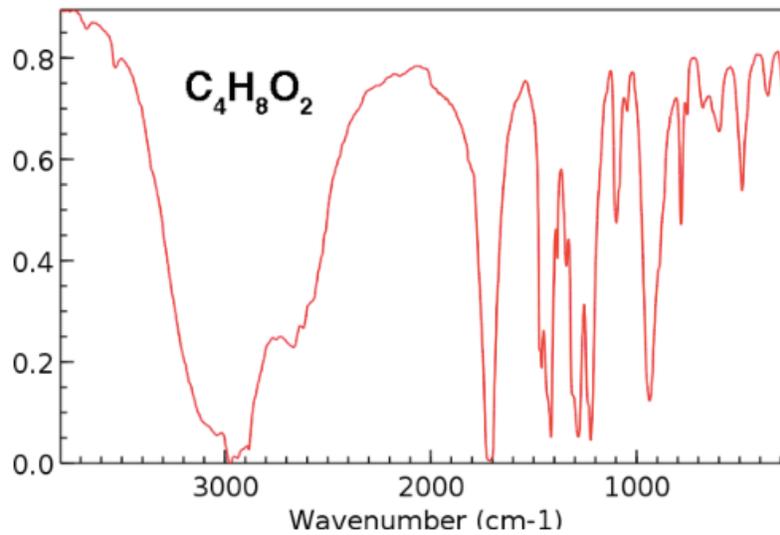
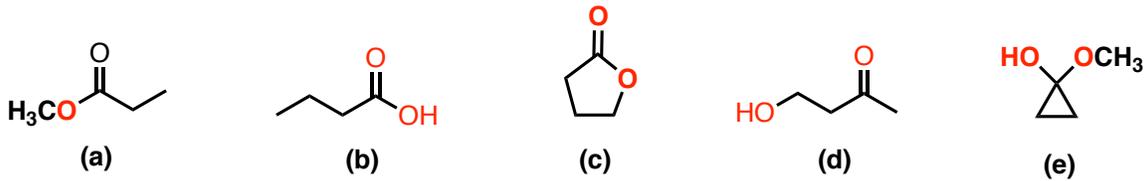
(b)



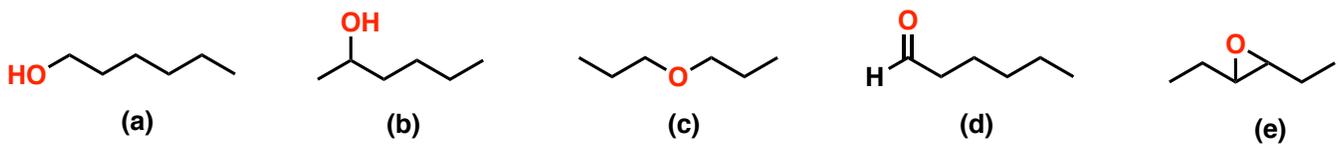
(c)

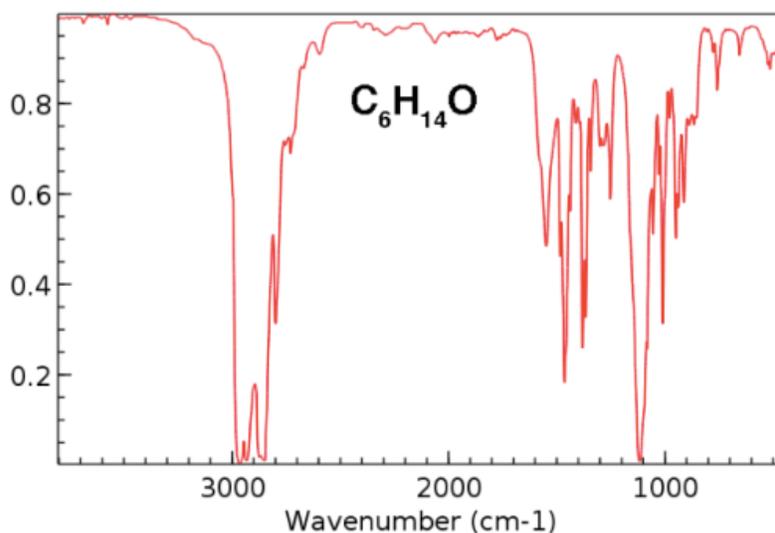


4. Relacione o espectro abaixo a uma das moléculas listadas e justifique.

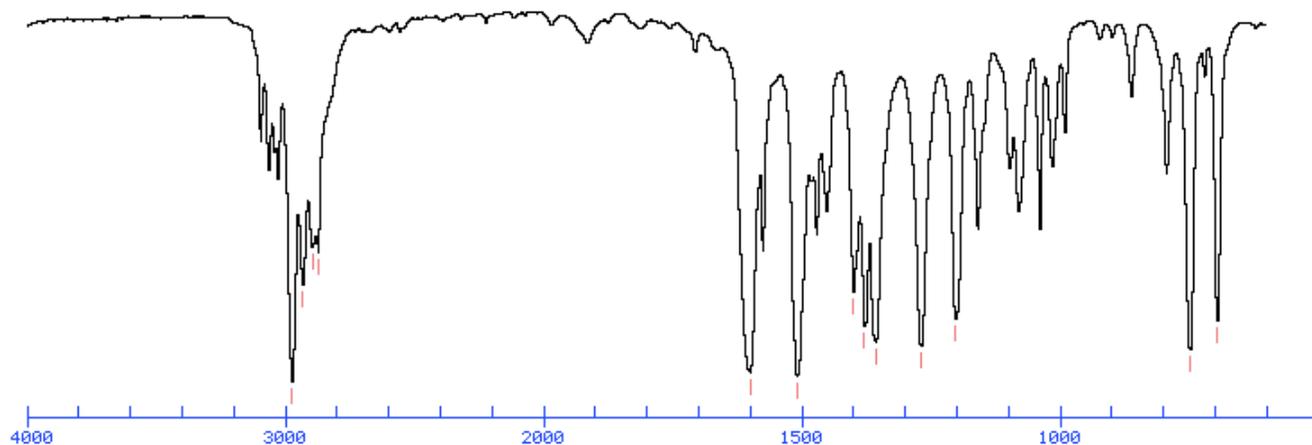


5. Qual das moléculas abaixo é descrita pelo espectro mostrado?





6. Qual a estrutura provável do composto cujo espectro de IV encontra-se abaixo? A fórmula molecular é $C_{10}H_{15}N$.



7. Sabendo que a fórmula molecular é $C_6H_{10}O$, qual a estrutura provável do composto cuja espectro de IV está abaixo?

