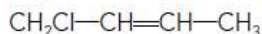


## SOLUCIÓN NOMENCLATURA ORGÁNICA LIBRO

Página 263:

5 Formula los compuestos:

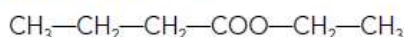
a) 1-clorobut-2-eno (1-cloro-2-buteno).



b) Ácido pent-2-enodioico (ácido 2-pentenodioico).



c) Butanoato de etilo.



d) Acetamida.

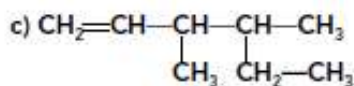
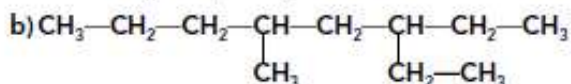
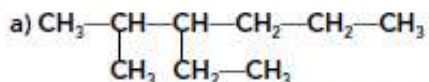


¿Cuáles presentarán isomería *cis-trans*?

La isomería geométrica o *cis-trans* la presentan los átomos de carbono con doble enlace, por ello se denomina también, etilénica. Los dos radicales *R* y *R'* pueden estar situados al mismo lado del plano o bien en lados opuestos, en el primer caso se denomina *cis* y en el segundo *trans*. La presentan los compuestos a) y b).

Página 268:

1 Nombra según corresponda:



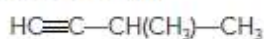
a) 3-etil-2-metilhexano.

b) 3-etil-3-metiloctano.

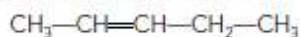
c) 3,4-dimetilhex-1-eno (3,4-dimetil-1-hexeno).

**2** Formula los siguientes compuestos:

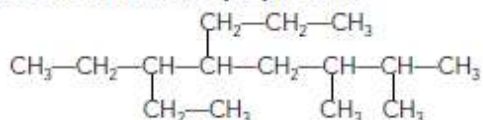
a) 3-metilbutino



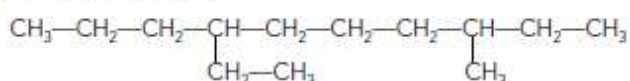
b) pent-2-eno (2-penteno)



c) 6-etil-2,3-dimetil-5-propiloctano



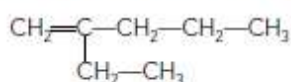
d) 7-etil-3-metildecano



e) 4-metilhex-2-eno (4-metil-2-hexeno)

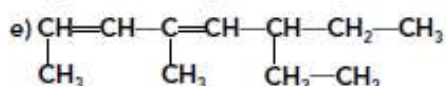
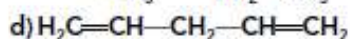
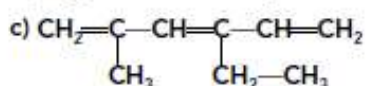
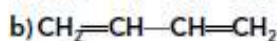
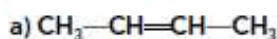


f) 2-etilpent-1-eno (2-etil-1-penteno)



**Página 270:**

**1** Nombra los siguientes compuestos:



a) But-2-eno (2-buteno).

b) But-1,3-dieno (1,3-butadieno).

c) 4-etil-2-metilhex-1,3,5-trieno (4-etil-2-metil-1,3,5-hexatrieno).

d) Pent-1,4-dieno (1,4-pentadieno).

e) 6-etil-4-metilocta-2,4-dieno (3-etil-4-metil-2,4-octadieno).

**2** Formula los siguientes compuestos:

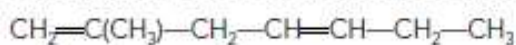
a) Penta-1,4-dieno (1,4-pentadieno).



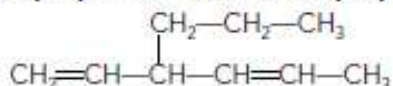
b) But-2-eno (2-buteno).



c) 2-metilhepta-1,4-dieno (2-metil-1,4-heptadieno).

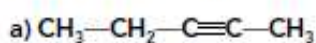


d) 3-propilhexa-1,4-dieno (3-propil-1,4-hexadieno).



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3 Nombra los compuestos:

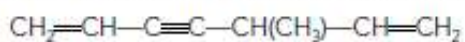


a) Pent-2-ino (2-pentino).

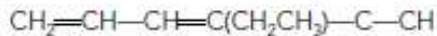
b) Hex-1,4-diino (1,4-hexadiino).

4 Formula los compuestos:

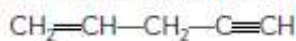
a) 5-metilhepta-1,6-dien-3-ino (5-metil-1,6-heptadien-3-ino).



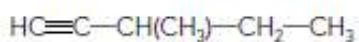
b) 4-etilhexa-1,3-dien-5-ino (4-etil-1,3-hexadien-5-ino).



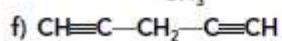
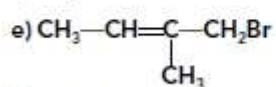
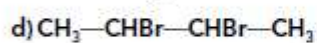
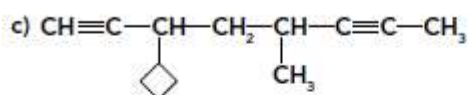
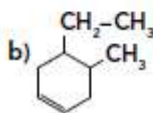
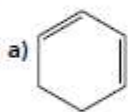
c) Pent-1-en-4-ino (1-penten-4-ino).



d) 3-metilpent-1-ino (3-metil-1-pentino).



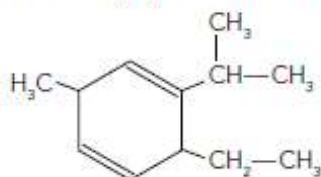
5 Nombra según corresponda los siguientes compuestos:



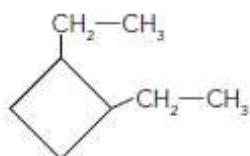
- a) Ciclohexa-1,3-dieno (1,3-ciclohexadieno).  
b) 4-etil-5-metilhex-1-eno (4-etil-5-metilciclohexeno).  
c) 3-ciclobutil-5-metiloct-1,6-diino (3-ciclobutil-5-metil-1,6-octadieno).  
d) 2,3-dibromobutano.  
e) 1-bromo-2-metilbut-2-eno (1-bromo-2-metil-2-buteno).  
f) But-1,4-diino (1,4-butadieno).

6 Formula los siguientes compuestos:

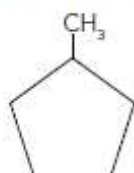
a) 3-etil-2-isopropil-6-metilciclohexa-1,4-dieno (3-etil-2-isopropil-6-metil-1,4-ciclohexadieno).



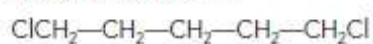
b) 1-etil-2-etilciclobutano.



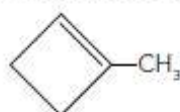
c) 1-metilciclopentano.



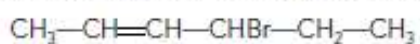
d) 1,5-dicloropentano.



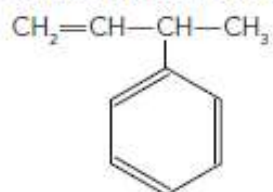
e) 2-metilciclobuteno.



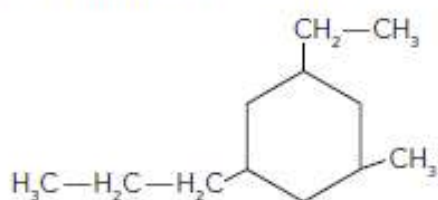
f) 4-bromohex-2-eno (4-bromo-2-hexeno).



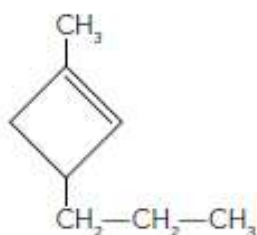
g) 3-fenilbut-1-eno (3-fenil-1-buteno).



h) 1-etil-3-metil-5-propilciclohexano.



i) 1-metil-3-propilciclobuteno.

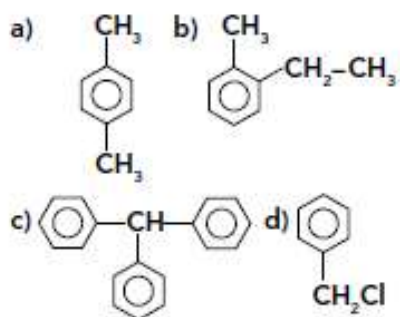


j) Ciclopenta-1,3-dieno (1,3-ciclopentadieno).



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7 Nombra los siguientes compuestos:



a) 1,4-dimetilbenceno (*p*-dimetilbenceno).

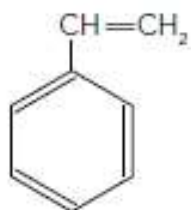
b) 1-etil-2-metilbenceno (*o*-etilmetilbenceno).

c) Trifenilmetano.

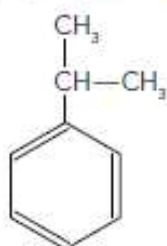
d) Clorometilbenceno.

**8** Formula estos compuestos:

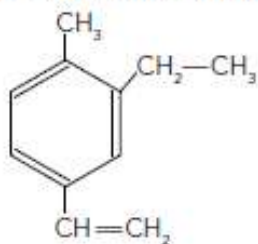
a) Etilbenceno.



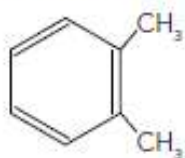
b) Isopropilbenceno.



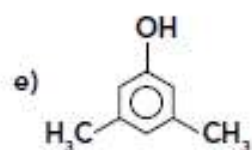
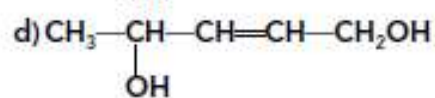
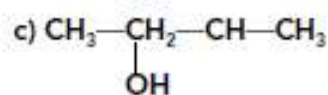
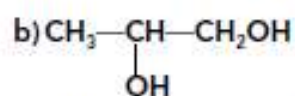
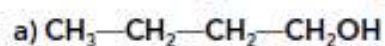
c) 2-etil-1-metil-4-vinilbenceno.



d) 1,2-dimetilbenceno.



1 Nombra los siguientes compuestos:



a) Butan-1-ol (butanol).

b) Propano-1,2-diol (1,2-propanodiol).

c) Butan-2-ol (2-butanol).

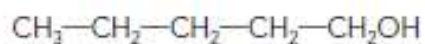
d) Pent-2-en-1,4-diol (2-penten-1,4-diol).

e) 3,5-dimetilfenol.

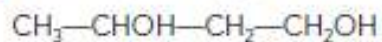


**2** Formula los siguientes compuestos:

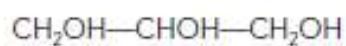
a) Pentanol.



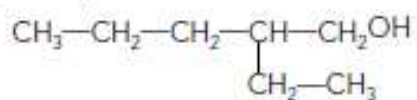
b) Butano-1,3-diol (1,3-butanodiol).



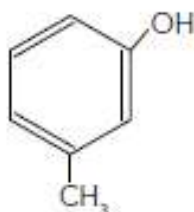
c) Propano-1,2,3-triol (1,2,3-propanotriol).



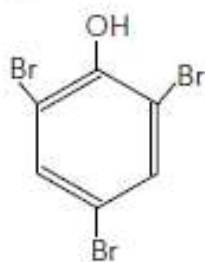
d) 2-etilpentanol.



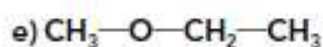
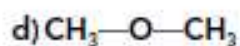
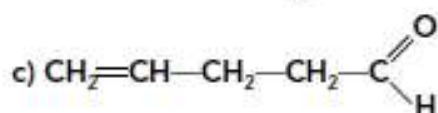
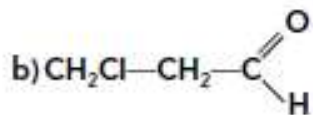
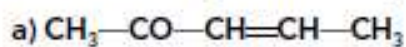
e) 3-metilfenol.



f) 2,4,6-tribromofenol.



**3** Nombra los siguientes compuestos:



a) Pent-3-en-2-ona (3-penten-2-ona).

b) 3-cloropropanal.

c) Pent-4-enal (4-pentenal).

d) Metoximetano (dimetiléter).

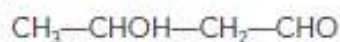
e) Metoxietano (etilmetiléter).

**4** Formula los siguientes compuestos:

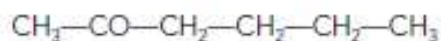
a) Propionaldehído.



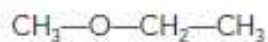
b) 3-hidroxiбутanal.



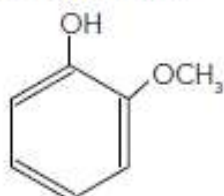
c) Hexan-2-ona (2-hexanona).



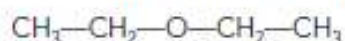
d) Metoxietano.



e) *o*-metoxifenol.

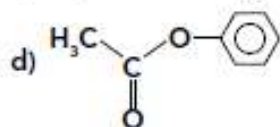
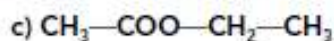
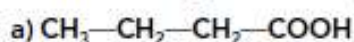


f) Etoxietano o etanooxietano.



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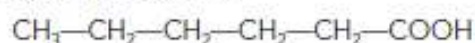
5 Nombra los siguientes compuestos:



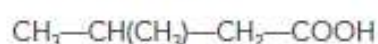
- a) Ácido butanoico.  
b) Ácido prop-2-enoico (ácido propenoico).  
c) Acetato de etilo (etanoato de etilo).  
d) Benzoato de metilo.

6 Formula los siguientes compuestos:

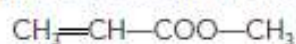
a) Ácido hexanoico.



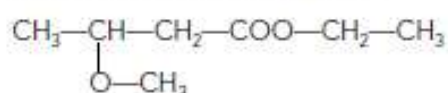
b) Ácido 3-metilbutanoico.



c) Propenoato de metilo.

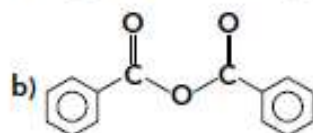
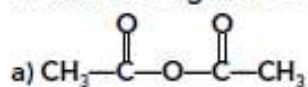


d) 3-metoxibutanoato de etilo.



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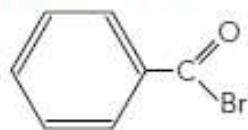
7 Nombra los siguientes compuestos:



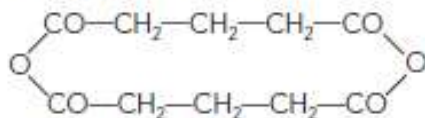
- a) Anhídrido acético (anhídrido etanoico).  
b) Anhídrido benzoico.

**8** Formula los siguientes compuestos:

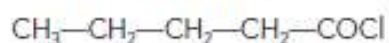
a) Bromuro de benzoilo.



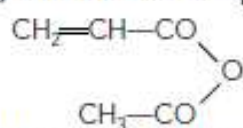
b) Anhídrido pentanodioico.



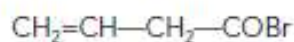
c) Cloruro de pentanoilo.



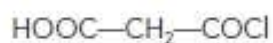
d) Anhídrido aceticopropenoico.



e) Bromuro de butenoilo.

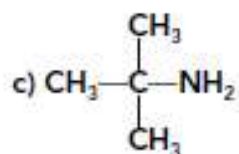
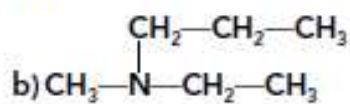
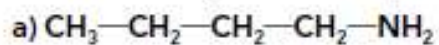


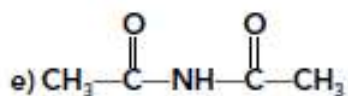
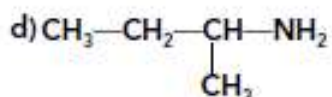
f) Ácido cloroformilacético.



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**1** Nombra los siguientes compuestos:





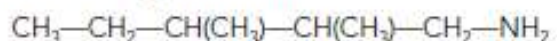
- a) Butanamina (butilamina).
- b) 2-propilbutanamina (etilmetilpropilamina).
- c) Trimetilamina (1,1-dimetiletilamina).
- d) 1-metilpropilamina.
- e) Diacetilamida (dietanilamida).

**2** Formula los siguientes compuestos:

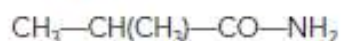
- a) 2-propilamina.



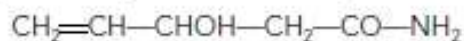
- b) 2,3-dimetilpentilamina.



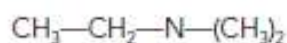
- c) Metilpropanamida.



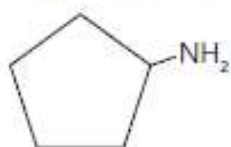
- d) 3-hidroxipent-4-enamida (3-hidroxi-4-pentenamida).



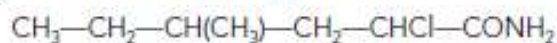
- e) *N,N*-dimetiletilamina.



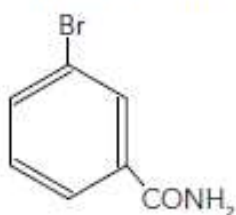
- f) Ciclopentilamina.



- g) 2-cloro-4-metilhexanamida.



- h) 3-bromobenzamida.

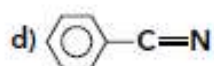
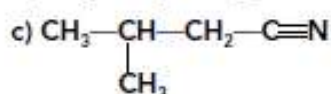
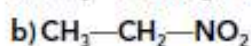
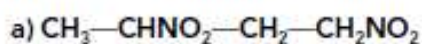


i) Ciclohexanocarboxamida.



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**3** Nombra los siguientes compuestos:



a) 1,3-dinitrobutano.

b) Nitroetano.

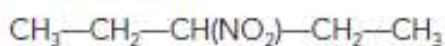
c) 3-metilbutanonitrilo.

d) Benzonitrilo.

e) Propanonitrilo.

**4** Formula los siguientes compuestos:

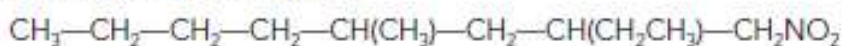
a) 3-nitropentano.



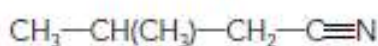
b) Ácido 4-cloro-2-nitrohexanoico.



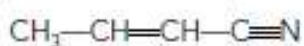
c) 2-etil-4-metilnitrooctano.



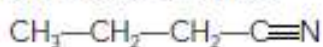
d) 3-metilbutanonitrilo.



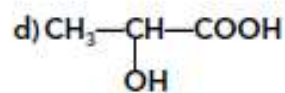
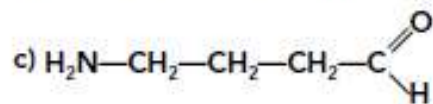
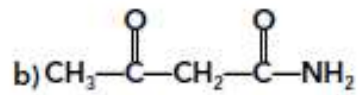
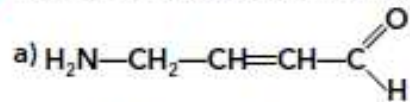
e) But-2-enonitrilo (2-butenonitrilo).



f) Cianuro de propilo.



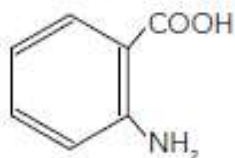
**1** Nombra los siguientes compuestos:



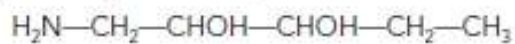
- a) 4-amino-but-2-enal (4-amino-2-butenal).
- b) 3-oxo-propanoamida.
- c) 4-aminobutanal.
- d) Ácido 2-hidroxipropanoico.

**2** Formula los siguientes compuestos:

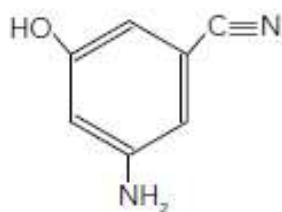
a) 2-aminobenzoico.



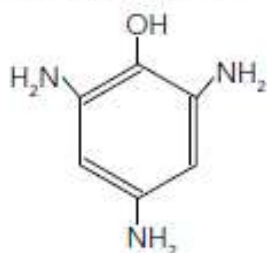
b) 1-aminopentano-2,3-diol.



c) 3-amino-5-hidroxibencenonitrilo.



d) 2,4,6-triaminofenol.



e) 2-amino-2-hidroksimetilpropano-1,3-diol.

