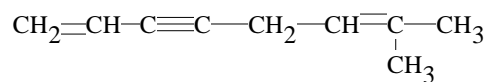
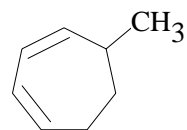


m)



p)

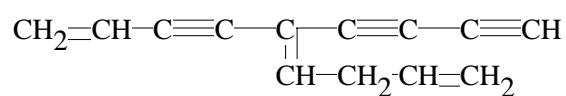


n) Ciclopenteno.

o) 4,4-dimetil-3-vinilciclohexeno.

q) 6-alil-6-(4,4-dimetil-2-pentenil)-1,2,9-decatrien-7-ino.

r)

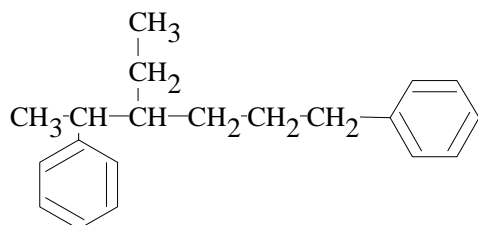


3. Formula o nombra los siguientes compuestos:

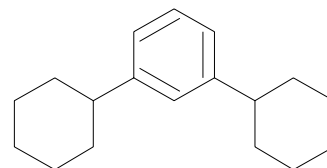
a) *p*-dimetilbenceno.b) *o*-isopropilpropilbenceno.

c) 1,3-difenilbutano.

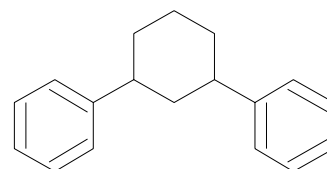
d)



e)



f)

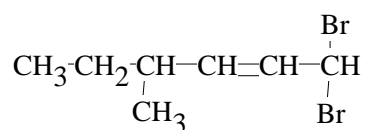


4. Formula o nombra los siguientes compuestos:

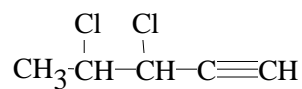
a) 1-cloro-2-metil-4-vinilbenceno.

b) 3-cloro-1,4-hexadieno.

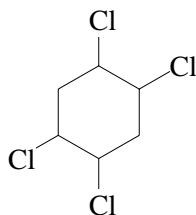
c)



d)



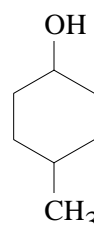
e)



5. Formula o nombra los siguientes compuestos:

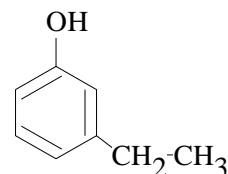
- a) 1-Propanol.
- b) 1,2-Propanodiol.
- c) Fenol.
- d) CH_3OH
- e) $\text{CH}_3\text{-CHOH-CH}_3$

f)



- g) $\text{CH}_2\text{OH-CH}_2\text{OH}$.
- h) 3-Hexen-1-ol.
- k) $\text{CH}\equiv\text{C-CH=CH-CH}_2\text{-CH}_2\text{OH}$.

- i) 4-Metil-2,4-hexadien-1-ol.
- j) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{OH}$.
- l)



6. Formula o nombra los siguientes compuestos:

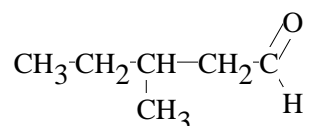
- a) Fenil metil éter.
- b) Ciclohexil ciclopentil éter.
- c) Difenil éter.
- f) $\text{CH}_3\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_3$
- g) 1,3,5-Trioxaciclohexano.

- d) $\text{CH}_3\text{-O-CH=CH}_2$
- e) $\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH=CH-CH}_3$

7. Formula o nombra los siguientes compuestos:

- a) Butanal.
- b) 3-octen-6-inal.
- c) Formaldehído.

d)

e) $\text{CH}_3\text{-CH=CH-CH=CH-CHO}$ f) $\text{OHC-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CHO}$

g) Difenil cetona.

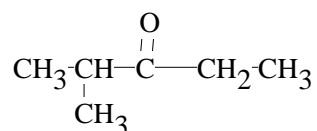
h) Metil vinil cetona.

i) 3-Buten-2-ona.

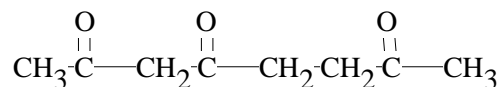
j) 1-Hepten-5-in-3-ona.

k) 1,3-Ciclopentanodiona.

l)



m)

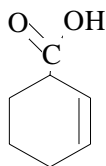
n) $\text{CH}_3\text{-CO-CH}_2\text{-CH}_2\text{-C}_6\text{H}_5$ **8.** Formula o nombra los siguientes compuestos:

a) Ácido propanoico.

b) HCOOH .

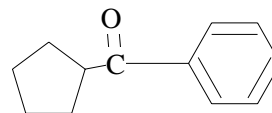
e) Ácido 4-etil-2-metil-2,4,6-octatrienoico.

f)

h) $\text{HOOC-CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_2\text{-COOH}$

i) Ácido 2-carboxi-4-metilhexanodioico o ácido 3-metil-1,1,4-butanotricarboxílico.

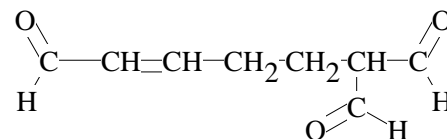
o)



p) 2-Formilpentanodial.

q) 1,1,3-Propanotricarbaldehído.

r)

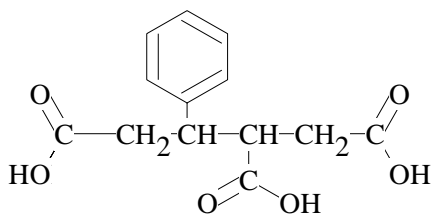


c) Ácido 4-hexenoico.

d) $\text{CH}_3\text{-C}\equiv\text{C-COOH}$

g) Ácido 2,2-dimetilheptanodioico.

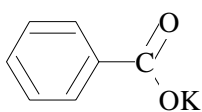
j)



9. Formula o nombra los siguientes compuestos:

a) Acetato de sodio.

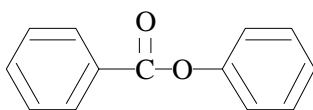
b)



c) Benzoato de etilo.

g) $\text{CH}_3\text{-C}\equiv\text{C-COO-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$

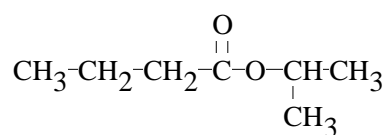
h)



i) Acetato de 1,2,3-trimetilbutilo.

j) Ciclohexanocarboxilato de *tert*-butilo o ciclohexanocarboxilato de dimetiletilo.

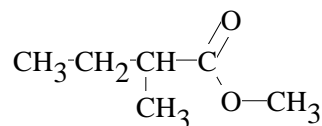
k)



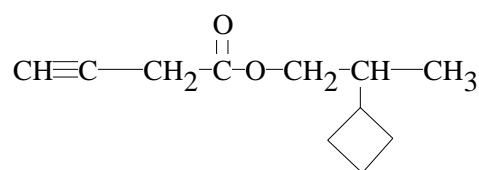
d) Propanoato de fenilo.

e) 3-Pentenoato de propilo.

f)



l)



m) Butanodioato de dietilo.

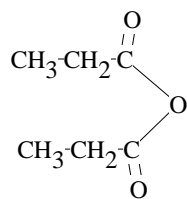
n) Pentanodioato de etilo-metilo.

10. Formula o nombra los siguientes compuestos:

a) Anhídrido acético.

b) $(\text{CH}_3\text{-CH}_2\text{-CO})_2\text{O}$

c)

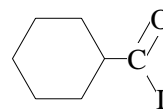


d) Cloruro de acetilo.

e) Bromuro de benzoílo.

f) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CO-F}$

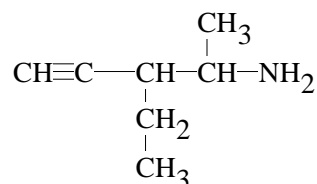
g)

**11.** Formula o nombra los siguientes compuestos:

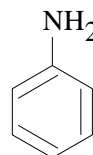
a) Propilamina.

b) 3-Fenilbutilamina.

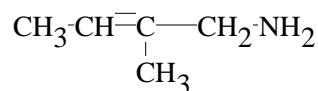
c)



d)

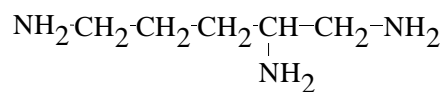


e)



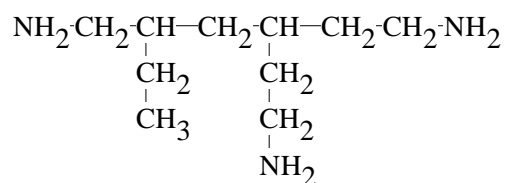
f) 1,3-Propanodiamina.

h)



i) 3-Aminometil-1,7-heptanodiamina.

j)

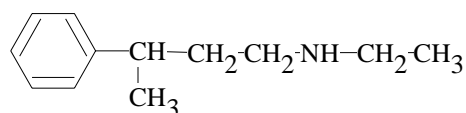
k) *N*-metilpropilamina.

l) Difenilamina.

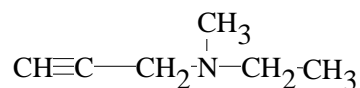
m) *N,N*-dimetilvinilamina.

g) 1,4-Hexanodiamina.

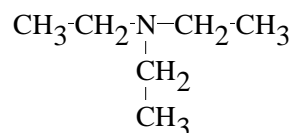
n)



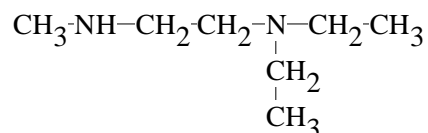
o)



p)

q) *N,N*-dietil-*N'*-metil-1,3-propanodiamina.r) *N,N'*-dimetil-1,3-butanodiamina.

s)

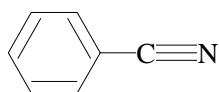
**12.** Formula o nombra los siguientes compuestos:

a) Etanonitrilo.

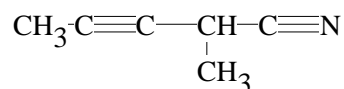
b) Cianuro de metilo.

c) 4-Metilpentanonitrilo.

d)



e)



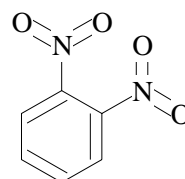
f) Ciclohexanocarbonitrilo.

g) Nitrometano.

h) 1,3-Dinitropropano.

i) *p*-Nitrofenol.j) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{NO}_2$

k)

**13.** Formula o nombra los siguientes compuestos:

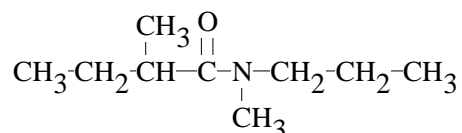
a) Butanamida.

b) Benzamida.

e) $\text{CH}_3-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CO}-\text{NH}_2$ f) *N*-metilacetamida.

g) 2,4-Dimetilpentanamida.

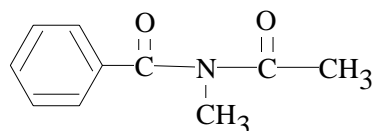
h)

i) *N*-acetilbenzamida.

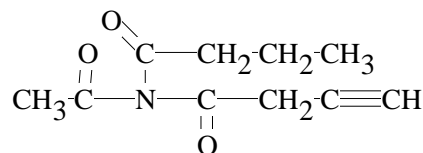
c) Ciclopentanocarboxamida.

d) $\text{CH}_3-\text{CO}-\text{NH}_2$ j) *N*-acetil-*N*-propanoilbutanamida.

k)



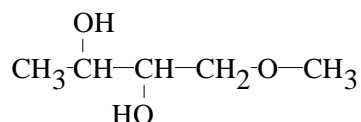
l)



14. Formula o nombra los siguientes compuestos:

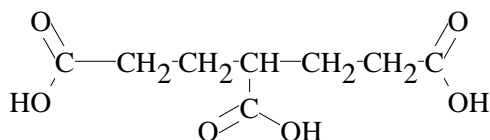
a) Ácido 4-aminohexanoico.

b)



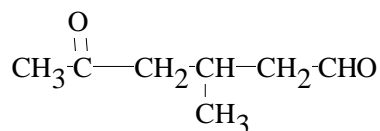
c) 3,5-Dioxohexanoato de butilo.

d)

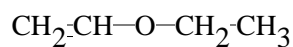


e) Ácido 3-hidroxi-6-metil-5-heptenoico.

f)

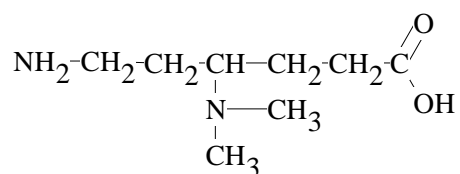
g) *N*-metilaminoacetaldehído.

h)



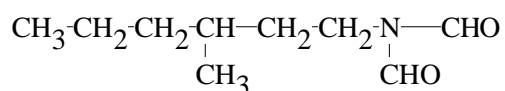
i) 4-(1-formiletíl)heptanodial.

j)



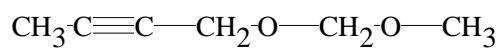
k) 3-Nitrofenil 4-nitrofenil éter.

l)



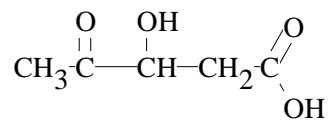
m) Ácido 3-ciano-5-oxohexanoico.

n)



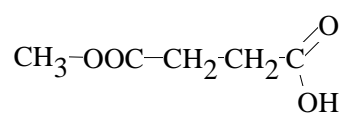
o) 2-Formil-3-oxopentanodial.

p)



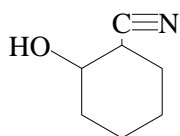
q) Ácido *p*-(formilmetil)benzoico.

r)



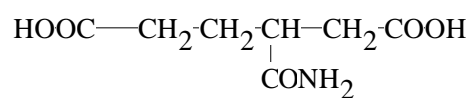
s) Ácido 3-acetoxipropiónico.

t)



u) 2-Amino-4-oxohexanonitrilo.

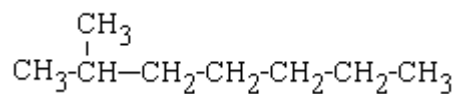
v)



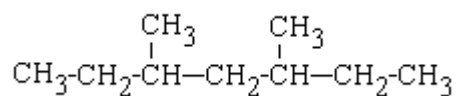
Soluciones.

1.

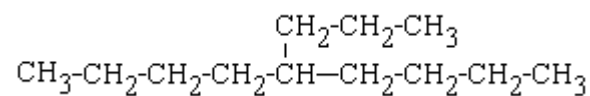
a)



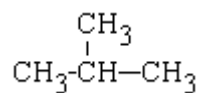
b)



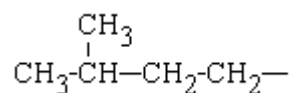
c)



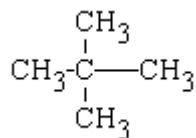
d)



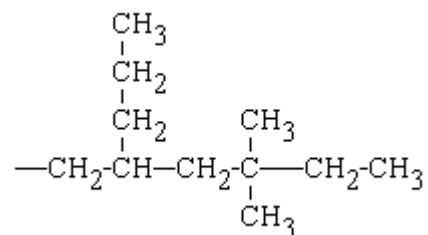
j)



e)



k)

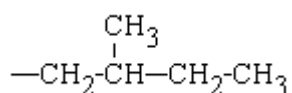


f) 2,2,4-trimetilpentano.

g) 3-metilhexano.

h) 3-etil-5-propilnonano.

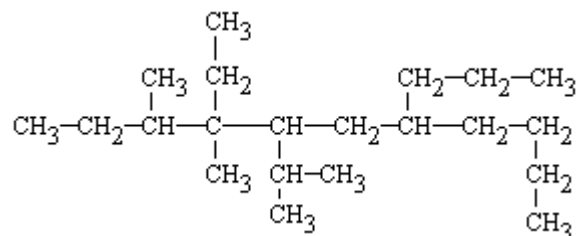
i)



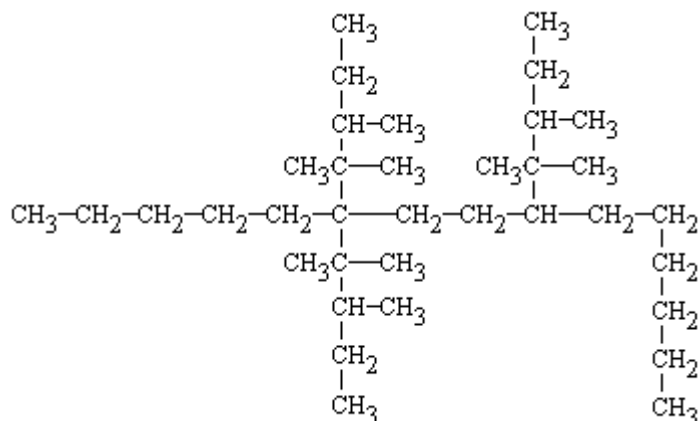
l) Radical 2,4-dimetilpentilo.

m) Radical 4,4-dimetil-2-propilhexilo.

n)



o)

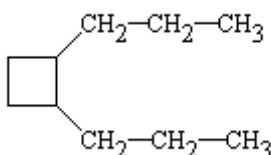


p) 2,2,3,5,7,7-hexametilnonano.

q) 3,3,6-trietil-6-metiloctano.

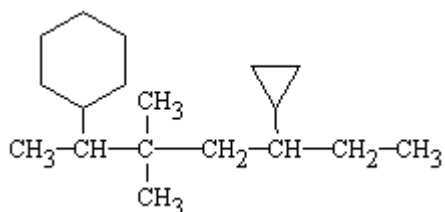
r) 10-etil-2,2,3,3,8,9-hexametil-6-(3,4,4-trimetilpentil)tridecano.

s)



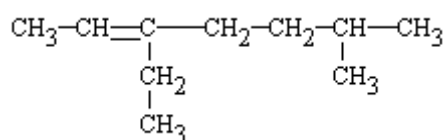
t) 1-butil-1-*terc*-butil-4,4-dimetilciclohexano.

u)

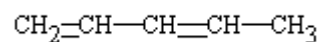


2.

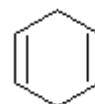
a)



c)

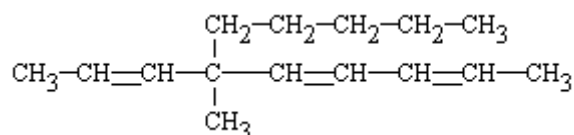


d)



b) 5-metil-1-hexeno.

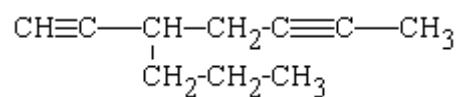
e)



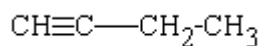
f) 5-metil-3-propil-1,4,6-octatrieno.

g) 3-metil-3,4-heptadieno.

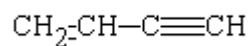
i)



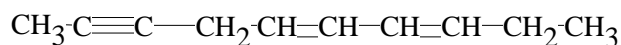
h)



j)



k)



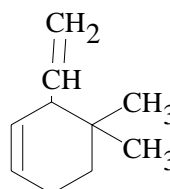
l) 4-hexen-1-ino.

m) 7-metil-1,6-octadien-3-ino.

n)

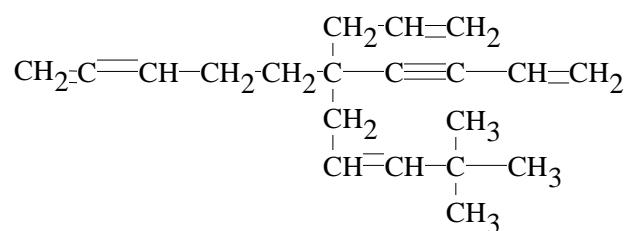


o)



p) 5-metil-1,3-cicloheptadieno.

q)



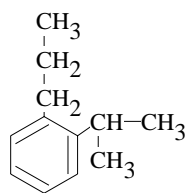
r) 5-(1,3-butadiinil)-1,5,8-nonatrien-3-ino.

3.

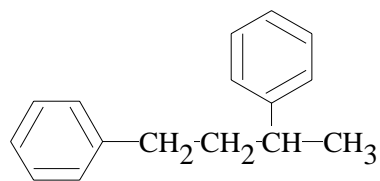
a)



b)



c)



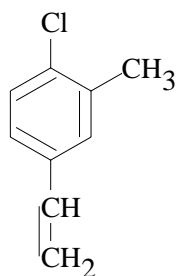
d) 1,5-difenil-4-etilhexano.

e) *m*-dicrolohexilbenceno.

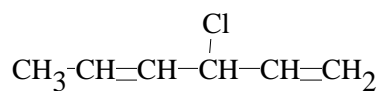
f) 1,3-difenilciclohexano.

4.

a)



b)



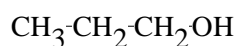
c) 1,1-dibromo-4-metil-2-hexeno.

d) 3,4-dicloro-1-pentino.

e) 1,2,4,5-tetraclorociclohexano.

5.

a)



d) Metanol.

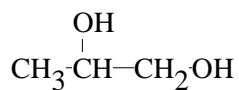
e) 2-Propanol.

f) 4-Metilciclohexanol.

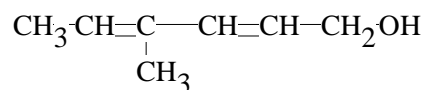
g) 1,2-Etanodiol o etilenglicol.

h) $\text{CH}_3\text{-CH}_2\text{-CH}=\text{CH-CH}_2\text{-CH}_2\text{OH}$.

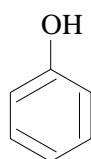
b)



i)



c)



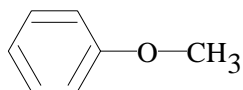
j) 3-Penten-1-ol.

k) 3-Hexen-5-in-1-ol.

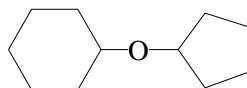
l) *m*-Etilfenol.

6.

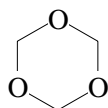
a)



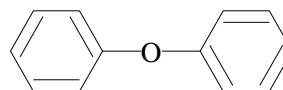
b)



g)



c)



d) Metil vinil éter o metoxieteno.

e) 2-Butenil etil éter o 1-etoxi-2-buteno.

f) 2,5,8-trioxadecano

7.

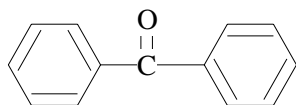
a) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CHO}$.b) $\text{CH}_3\text{-C}\equiv\text{C-CH}_2\text{-CH=CH-CH}_2\text{-CHO}$.c) HCHO .

d) 3-Metilpentanal.

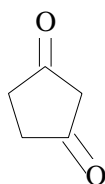
e) 2,4-Hexadienal.

f) Hexanodial.

g)

h) $\text{CH}_3\text{-CO-CH=CH}_2$ i) $\text{CH}_3\text{-CO-CH=CH}_2$ j) $\text{CH}_2\text{=CH-CO-CH}_2\text{-C}\equiv\text{C-CH}_3$

k)



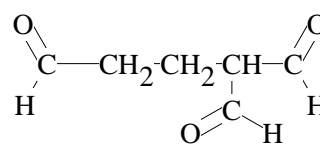
l) 2-Metil-3-pentanona.

m) 2,4,7-Octanotrióna.

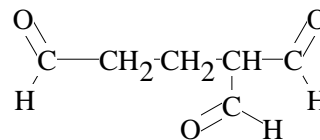
n) 4-Fenil-2-butanona.

o) Ciclopentil fenil cetona.

p)



q)

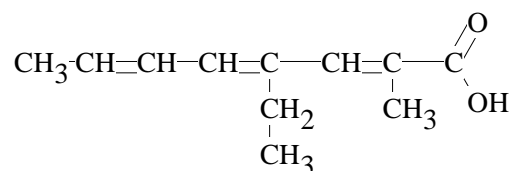


- r) 6-Formil-2-heptenodial o 1-penteno-1,5,5-tricarbaldehído.

8.

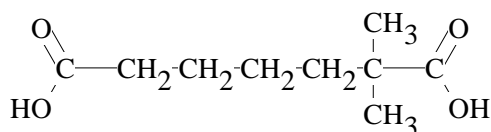
- a) $\text{CH}_3\text{-CH}_2\text{-COOH}$.
 b) Ácido metanoico o ácido fórmico.
 c) $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-COOH}$.
 d) Ácido 2-butinoico.

e)



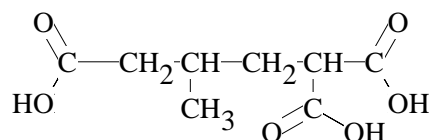
- f) Ácido 2-ciclohexenocarboxílico.

g)



- h) Ácido 3-heptinodioico.

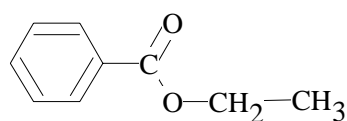
i)



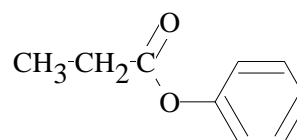
- j) Ácido 3-carboxi-4-fenilhexanodioico o ácido 3-fenil-1,2,4-hexanotricarboxílico.

9.

- a) $\text{CH}_3\text{-COONa}$
 b) Benzoato de potasio.
 c)



d)

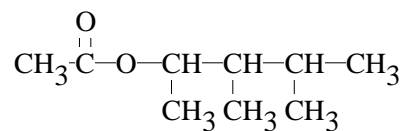


- e) $\text{CH}_3\text{-CH=CH-CH}_2\text{-COO-CH}_2\text{-CH}_2\text{-CH}_3$
 f) 2-Metilbutanoato de metilo.

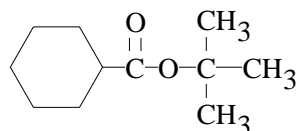
- g) 2-Butinoato de butilo.

h) Benzoato de fenilo.

i)



j)



k) Butanoato de isopropilo o butanoato de metiletilo.

l) 3-Butinoato de 2-ciclobutilpropilo.

m) $\text{CH}_3-\text{CH}_2-\text{OOC}-\text{CH}_2-\text{CH}_2-\text{COO}-\text{CH}_2-\text{CH}_3$

n) $\text{CH}_3-\text{OOC}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{COO}-\text{CH}_2-\text{CH}_3$

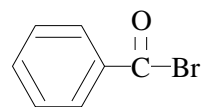
10.

a) $\text{CH}_3-\text{CO}-\text{O}-\text{OC}-\text{CH}_3$

b) Anhídrido propiónico.

c) Anhídrido propiónico.

d) $\text{CH}_3-\text{CO}-\text{Cl}$



f) Fluoruro de butanoílo.

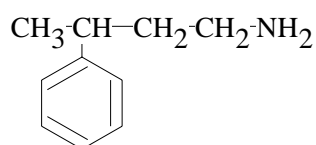
g) Yoduro de ciclohexanocarbonilo.

e)

11.

a) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{NH}_2$

b)



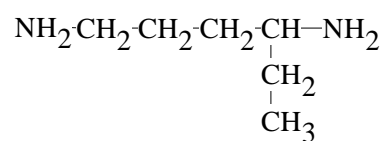
c) 2-Etil-1-etil-3-butenilamina.

d) Fenilamina o anilina.

e) 2-Metil-2-butenilamina.

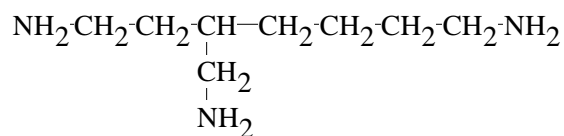
f) $\text{NH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{NH}_2$

g)



h) 1,2,5-Pentanotriamina.

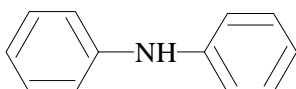
i)



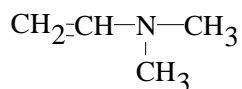
j) 4(2-aminoetil)-2-etil-1,6-hexanodiamina.

k) $\text{CH}_3\text{-NH-CH}_2\text{-CH}_2\text{-CH}_3$

l)

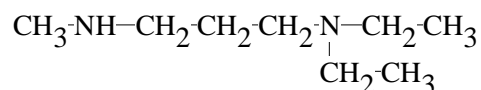


m)

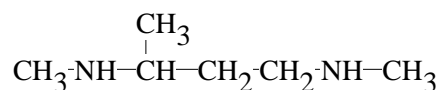
n) *N*-etil-3-fenilbutilamina.o) *N*-etil-*N*-metil-2-propinilamina.s) *N,N*-dietil-*N'*-metil-1,2-etanodiamina.

p) Trietilamina.

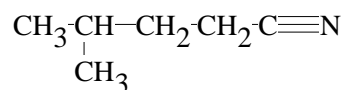
q)



r)

**12.**a) $\text{CH}_3\text{-C}\equiv\text{N}$ b) $\text{CH}_3\text{-C}\equiv\text{N}$

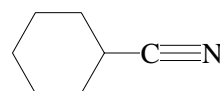
c)



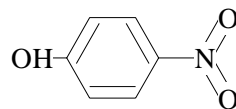
d) Benzonitrilo.

e) 2-Metil-3-butinonitrilo.

f)

g) $\text{CH}_3\text{-NO}_2$ h) $\text{O}_2\text{N-CH}_2\text{-CH}_2\text{-CH}_2\text{-NO}_2$

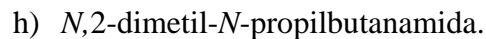
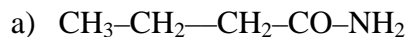
i)



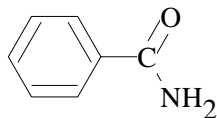
j) 1-Nitropropano.

k) *o*-Dinitrobenceno.

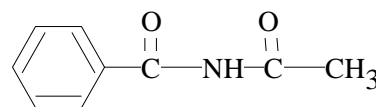
13.



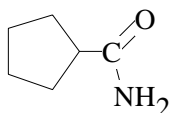
b)



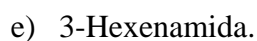
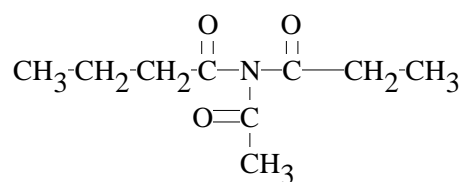
i)



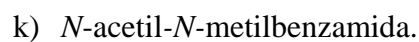
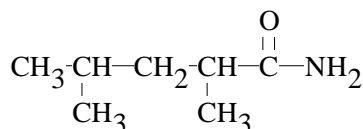
c)



j)

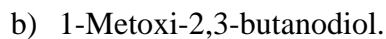
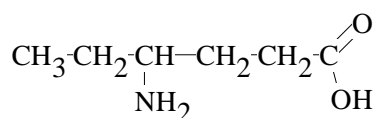


g)

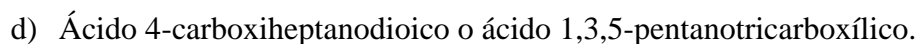
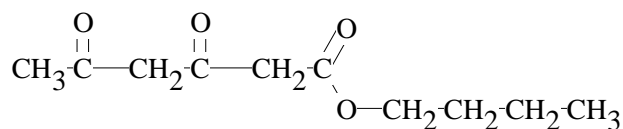


14.

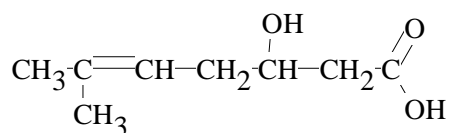
a)



c)

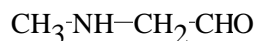


e)



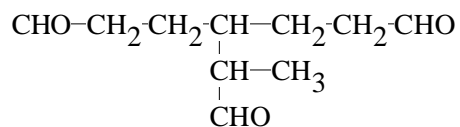
f) 3-Metil-5-oxohexanal.

g)



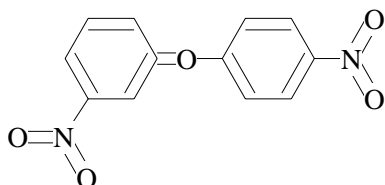
h) Etoxieteno.

i)



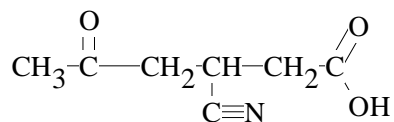
j) Ácido 6-amino-4-dimetilaminohexanoico.

k)



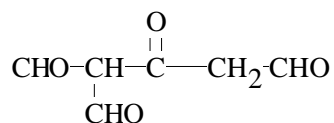
l) *N,N*-diformil-3-metilhexilamina.

m)



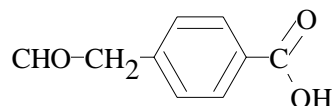
n) 6,8-Dioxa-2-nonino.

o)



p) Ácido 3-hidroxi-4-oxopentanoico.

q)

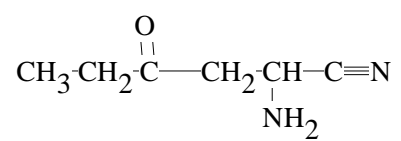


r) Ácido 3-(metoxicarbonil)propiónico.

s) $\text{CH}_3\text{-COO-CH}_2\text{-CH}_2\text{-COOH}$

t) 2-Hidroxiciclohexanocarbonitrilo.

u)



v) Ácido 3-carbamóilhexanodioico.