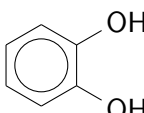
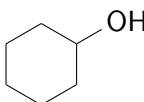
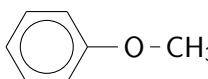
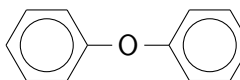
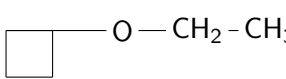
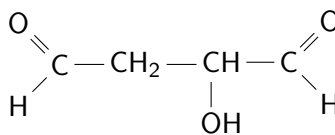
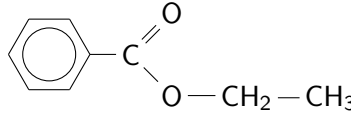
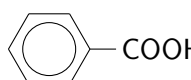


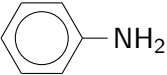
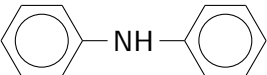
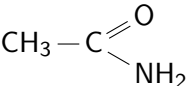
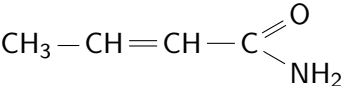
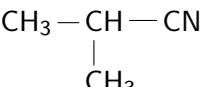
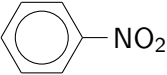
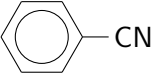
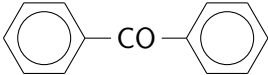
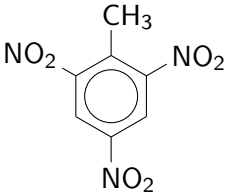

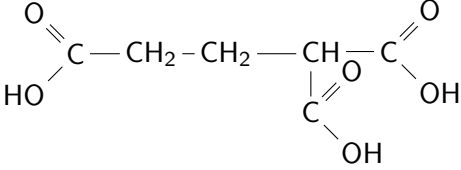
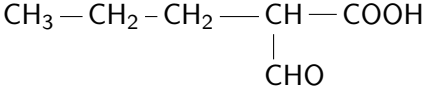
# FORMULACIÓN QUÍMICA ORGÁNICA

## Ejercicios

Nombra o formula los siguientes compuestos químicos:

- 1 4-isopropilheptano
- 2 4-etil-3,3-dimetilheptano
- 3 7-(1,2-dimetilbutil)-5-etiltridecano
- 4 5-etil-5-isopropil-3,4-dimetil-7-propilundecano
- 5 5-propilnonano
- 6 
$$\begin{array}{ccccccc} & & \text{CH}_3 & & & & \\ & & | & & & & \\ \text{CH}_3 - & \text{CH}_2 - & \text{C} - & \text{CH} - & \text{CH}_2 - & \text{CH}_3 \\ & & | & | & & & \\ & & \text{CH}_3 & \text{CH}_2 - & \text{CH}_2 - & \text{CH}_3 \end{array}$$
- 7 
$$\begin{array}{ccccccccccc} & & & & & & \text{CH}_3 & & & & \\ & & & & & & | & & & & \\ \text{CH}_3 - & (\text{CH}_2)_5 - & \text{CH} - & \text{CH}_2 - & \text{CH} - & \text{CH}_2 - & \text{C} - & \text{CH}_2 - & \text{CH}_3 \\ & & | & & | & & | & & & & \\ & & \text{CH}_3 - \text{CH} & & \text{CH}_2 - \text{CH}_3 & & \text{CH}_3 \\ & & | & & & & | \\ & & \text{CH} - \text{CH}_2 - \text{CH}_3 & & & & \\ & & | & & & & \\ & & \text{CH}_3 & & & & \end{array}$$
- 8 
$$\begin{array}{ccccccc} \text{CH}_3 - & \text{CH}_2 - & \text{CH} - & \text{CH} - & \text{CH}_2 - & \text{CH} - & \text{CH}_3 \\ & & | & | & & | & \\ & & \text{CH}_3 & \text{CH} - \text{CH}_3 & & \text{CH}_3 \\ & & & | & & \\ & & & \text{CH}_3 & & \end{array}$$
- 9  $\text{CH}_3 - \text{CH}_2 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH}_3$
- 10 
$$\begin{array}{ccccccc} & & \text{CH}_3 & & & & \\ & & | & & & & \\ \text{CH}_3 - & \text{C} - & \text{CH}_2 - & \text{CH}_2 - & \text{C} \equiv & \text{CH} \\ & & | & & & & \\ & & \text{CH}_3 & & & & \end{array}$$
- 11 
$$\begin{array}{ccccccc} \text{CH}_2 = & \text{C} - & \text{CH}_2 - & \text{CH}_2 - & \text{C} \equiv & \text{C} - & \text{CH}_3 \\ & | & & & & & \\ & \text{CH}_3 & & & & & \end{array}$$
- 12 
$$\begin{array}{ccccccc} \text{CH}_2 = & \text{CH} - & \text{CH}_2 - & \text{C} = & \text{CH}_2 \\ & & & | & \\ & & & \text{CH}_3 & \end{array}$$
- 13 3-metilbut-1-ino  
o bien 3-metil-1-butino
- 14 6-metilhepta-2,4-diino  
o bien 6-metil-2,4-heptadiino
- 15 penta-1,3-dieno  
o bien 1,3-pentadieno
- 16 ciclohexano
- 17 metilciclobutano
- 18 1,2-dibromobut-1-eno  
o bien 1,2-dibromo-1-buteno
- 19 4-metilciclopenteno
- 20 
$$\begin{array}{ccccccc} \text{CH}_3 - & \text{CBr} - & \text{CH}_2\text{Br} \\ & | & \\ & \text{CH}_3 & \end{array}$$
- 21 tolueno o metilbenceno
- 22 1,3,5-triclorociclohexano
- 23 o-dimetilbenceno
- 24 naftaleno (buscar la fórmula)
- 25 4,5-dibromociclohexeno
- 26 
- 27 
- 28  $\text{CH}_2 = \text{CH} - \text{CHCl} - \text{CH}_2 - \text{CH}_3$
- 29 yodometano o yoduro de metilo
- 30 dibromometano
- 31 Yoduro de etilo  
o bien yodoetano
- 32 1,1-dicloropropano

- 33  $\text{CHCl}_3$
- 34 1,2-dibromo-4-metilhex-2-eno  
o bien 1,2-dibromo-4-metil-2-hexeno
- 35 1,2-diclorobenceno  
o bien o-diclorobenceno
- 36 2-fenil-4-metilpentano
- 37  $\text{CH}_3 - \text{CH}_2\text{OH}$
- 38  $\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CHOH} - \text{CH}_3$
- 39 
- 40 
- 41  $\text{CH}_2\text{OH} - \text{CHOH} - \text{CH}_2\text{OH}$
- 42 3-metil-1,2,4-butanotriol
- 43 2-etil-2-buten-1-ol  
o bien 2-etilbut-2-en-1-ol
- 44 p-yodofenol
- 45 
- 46  $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{CH}_3$
- 47 
- 48 dipropil éter
- 49  $\text{CH}_3 - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{CH}_3$
- 50 
- 51 propanal o propanaldehído
- 52 2,4,7-octanotriona  
o bien octano-2,4,7-triona
- 53 3-pentin-2-ona  
o bien pent-3-in-2-ona
- 54 2-pentanona  
o bien pentan-2-ona
- 55 
- 56  $\text{CH}_3 - \text{C}(\text{O}) - \text{CH}_3$
- 57 ácido acético o ácido etanoico
- 58  $\text{CH}_3 - \text{CH}_2 - \text{C}(\text{O})\text{OH}$
- 59 ácido butanodioico
- 60  $\text{CH}_3 - \text{CH}_2 - \text{C}(\text{O})\text{OCH}_3$
- 61 
- 62  $\text{CH}_3 - \text{COO} - \text{CH}_2 - \text{CH}_3$
- 63  $\text{CHO} - \text{CH}_2 - \text{CHOH} - \text{CHO}$
- 64 3,4-dihidroxiбутanona
- 65 ácido fórmico o ácido metanoico
- 66  $\text{COOH} - \text{CH} = \text{CH} - \text{COOH}$
- 67 
- 68  $\text{COOH} - \text{COOH}$
- 69 butanona  
o bien etilmetilcetona
- 70  $\text{CH}_3 - \text{CO} - \text{CHOH} - \text{CH}_2 - \text{COOH}$
- 71 ácido butenodioico  
o bien ácido but-2-enodioico
- 72 metilamina  
o bien metanamina

- 73 
- 74  $\text{CH}_3 - \text{CH}_2\text{NH}_2$
- 75 hexilamina o hexanamina
- 76 dimetilamina
- 77 
- 78 N-etil-N-metilpropanamina  
o bien etil(metil)propilamina
- 79  $\text{CH}_3 - \text{NH} - \text{CH}_2 - \text{CH}_3$
- 80 propanamida
- 81 
- 82 N-etilbutanamida
- 83 
- 84 propanonitrilo o cianuro de etilo
- 85  $\text{CH}_3 - \text{C} \equiv \text{N}$
- 86 
- 87 1,2-dinitropropano
- 88 
- 89 
- 90 benzaldehído
- 91 
- 92 
- 93 vinilbenceno  
o bien estireno
- 94 acetato de potasio
- 95 acetato de calcio
- 96 benzoato de sodio
- 97 
- 98 ácido 2-metil-3-oxopentanoico
- 99 etino  
o bien acetileno
- 100 eteno o etileno
- 101 ácido 2-cianobutanoico
- 102 ácido 2-carboxibutanodioico
- 103 
- 104 ácido 1,2-bencenodicarboxílico
- 105 ácido 2-formilbutanoico
- 106 
- 107  $\text{CH}_3 - \text{CClOH} - \text{CHNH}_2 - \text{CH}_2 - \text{CHO}$