

Formulación orgánica

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1 Ejercicios de nomenclatura

S 1.1

- a) 3-metilbut-1-eno
- b) dietil éter / etoxietano
- c) metilbutano
- d) pent-2-ino
- e) hexanamina
- f) dimetil cetona / propanona
- g) etanol
- h) etanoato de etilo / acetato de etilo

S 1.2

- a) ácido butanoico
- b) 1,1-dicloroetano
- c) etino
- d) pentil metil cetona / heptan-2-ona
- e) propan-2-ol

- f) ácido benzoico / ácido bencenocarboxílico
- g) 2,3,5-trimetilhexano
- h) 1-cloropropeno

S 1.3

- a) 2,5-dimetilhexan-3-ona / isobutil isopropil cetona
- b) butanona / etil metil cetona
- c) etenol
- d) eteno
- e) etil metil amina / N-metiletanamina
- f) pent-3-en-2-ona / metil prop-1-enil cetona
- g) propanamida
- h) nona-2,6-dien-4-ino

S 1.4

- a) pentanal
- b) ácido etanoico / ácido acético
- c) ácido hexa-3,5-dienoico
- d) 4,4-dihidroxipentanal
- e) dietil amina / N-etiletanamina
- f) 2-metilpropanoato de etilo
- g) penta-2,4-dienal
- h) ácido but-3-inoico

S 1.5

- a) butanodiona
- b) 2-hidroxibutanamida

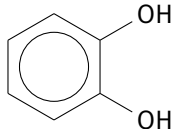
- c) 4-metilhex-5-in-3-ona
- d) propanamina
- e) 5-clorohept-3-eno-1,6-diino
- f) 3-metilbutanonitrilo
- g) 3-hidroxibutanona
- h) penta-1,4-dieno

S 1.6

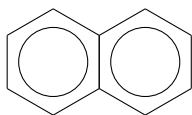
- a) dimetil éter / metoximetano
- b) 3-metilbutan-2-ona / isopropil metil cetona
- c) ácido 2-metilpropanoico
- d) etanoato de metilo / acetato de metilo
- e) hidroxietanal
- f) metanamina
- g) dietil cetona / pentan-3-ona
- h) etanal

2 Ejercicios de formulación**S 2.1**

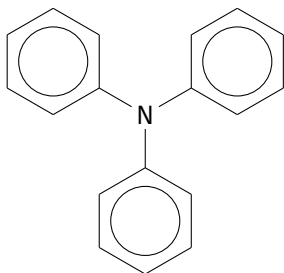
- a) $\text{CH}_3\text{—CH}(\text{CH}_3)\text{—COOH}$
- b) $\text{CH}_3\text{—COO—K}$
- c)



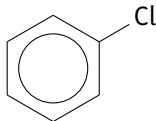
d)



e)



f)



g) $\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CH}(\text{CH}_3)\text{—COOH}$

h) $\text{CH}_3\text{—NH}_2$

S 2.2

a) $\text{CH}_2\text{=CH—COOH}$

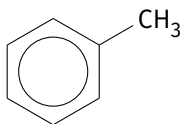
b) $\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CH}_2\text{—NH—CH}_3$

c) $\text{CH}_3\text{—CH}_2\text{—O—CH}_2\text{—CH}_2\text{—CH}_3$

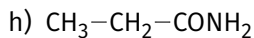
d) $\text{CH}_3\text{—CH=CH—CH}_3$

e) $\text{CH}_2\text{OH—CH}_2\text{—CH}_2\text{—CH}(\text{CH}_3)\text{—CH}_2\text{—CH}_3$

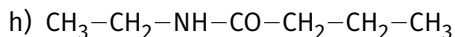
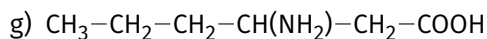
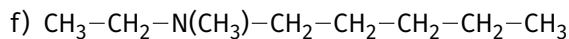
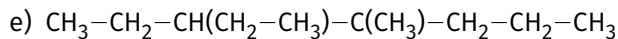
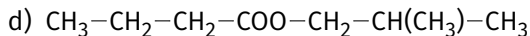
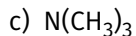
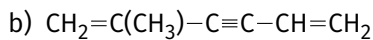
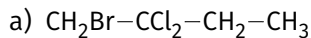
f)



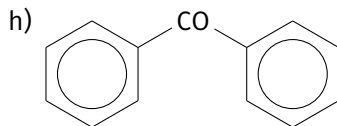
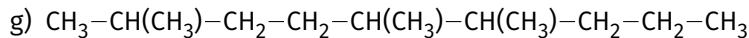
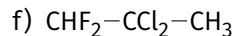
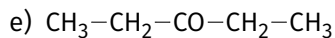
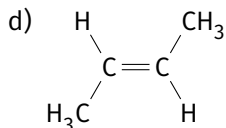
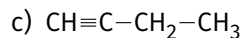
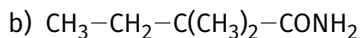
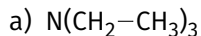
g) $\text{CH}_2\text{=C}(\text{CH}_3)\text{—CH}(\text{CH}_3)\text{—CH}_3$



S 2.3



S 2.4



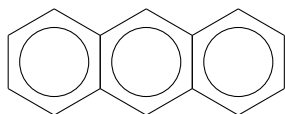
S 2.5

- a) $\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CHOH—CH}_3$
 b) $\text{CH}_3\text{—COO—CH}_2\text{—CH}_3$
 c) $\text{CH}_3\text{—CHOH—CH}_3$
 d) $\text{CH}_3\text{—CH=CH—CH}_2\text{—CH}_3$
 e) $\text{CClF}_2\text{—CH}_3$
 f)
$$\begin{array}{ccccccccccc} \text{CH}_3 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & & | & & & & | & & | & & & & & & & & \\ & & & & \text{CH}_3 & & & & \text{CH}_2 & & \text{CH}_2 & & & & & & & & \\ & & & & & & & & | & & | & & & & & & & & \\ & & & & & & & & \text{CH}_3 & & \text{CH}_3 & & & & & & & & \end{array}$$

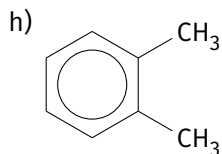
 g) $\text{CH}_3\text{—CH}_2\text{—N(CH}_3\text{)—CH}_2\text{—CH}_3$
 h) $\text{CH}_3\text{—C(CH}_3\text{)OH—CH}_3$

S 2.6

- a) $\text{CH}_3\text{—CH=C(CH}_3\text{)—CH(CH}_3\text{)—CH}_2\text{—CH}_2\text{—CH}_3$
 b) $\text{CH}_2\text{=CH—CH=CH—CH}_3$
 c) $\text{CH}_3\text{—CH}_2\text{—NH}_2$
 d) $\text{CH}_3\text{—CH}_2\text{—CHOH—CH}_3$
 e) $\text{CH}_3\text{—CH}_2\text{—NH—CH}_2\text{—CH}_3$
 f)

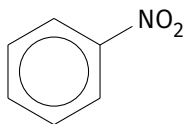


- g) $\text{CH}_3\text{—C}\equiv\text{CH}$

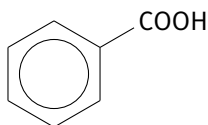


S 2.7

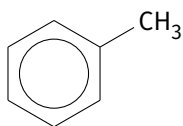
a)

b) $\text{CH}_3\text{--CH}_2\text{--CHO}$ c) CH_3OH

d)

e) $\text{CH}_3\text{--CH=CH--CH}_3$ f) HCOOH g) $\text{CH}_3\text{--CH}_2\text{--CH}_2\text{OH}$ h) $\text{CH}_3\text{--CH}_2\text{--CH}_2\text{--CH}_2\text{--CHO}$ **S 2.8**a) $\text{CH}_3\text{--COO--CH}_2\text{--CH}_3$ b) $\text{CH}\equiv\text{C--CH(CH}_3\text{)--CH(CH}_3\text{)--CH}_3$

c)

d) $\text{CH}_3\text{--CH}_2\text{--NH--CH}_2\text{--CH}_3$ e) $\text{CH}_3\text{--CH(CH}_3\text{)--CO--CH}_3$ f) $\text{CH}_3\text{--CONH--CH}_3$ g) $\text{CH}_3\text{--CH}_2\text{--CH}_2\text{--CH}_2\text{--CH}_2\text{--NH}_2$ h) $\text{CH}_3\text{--CHOH--CH}_2\text{OH}$