

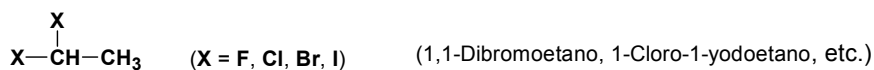
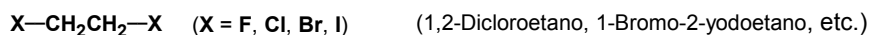
4. NOMENCLATURA DE GRUPOS FUNCIONALES

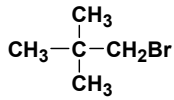
INTRODUCCIÓN

1 Haluros de alquilo:	$R-X$; $Ar-X$ ($X = F, Cl, Br, I$)
2 Alcoholes y fenoles:	$R-OH$; $Ar-OH$
3 Éteres:	$R-O-R$; $R-O-R'$; $R-O-Ar$; $Ar-O-Ar$
4 Aminas:	$R-NH_2$; $R-NH-R$; $R-\overset{R}{N}-R$
5 Aldehidos y cetonas:	$R-\overset{O}{\parallel}C-H$; $Ar-\overset{O}{\parallel}C-H$; $R-\overset{O}{\parallel}C-R$; $R-\overset{O}{\parallel}C-Ar$
6 Ácidos carboxílicos:	$R-\overset{O}{\parallel}C-OH$; $Ar-\overset{O}{\parallel}C-OH$
7 Ésteres:	$R-\overset{O}{\parallel}C-O-R'$; $Ar-\overset{O}{\parallel}C-O-R$
8 Amidas:	$R-\overset{O}{\parallel}C-NH_2$; $Ar-\overset{O}{\parallel}C-NH-R$; $Ar-\overset{O}{\parallel}C-NR_2$
9 Haluros de ácido:	$R-\overset{O}{\parallel}C-X$; $Ar-\overset{O}{\parallel}C-X$ ($X = Cl, Br, I$)
10 Anhídridos de ácido:	$R-\overset{O}{\parallel}C-O-\overset{O}{\parallel}C-H$; $Ar-\overset{O}{\parallel}C-O-\overset{O}{\parallel}C-Ar$
11 Nitrilos:	$R-C\equiv N$; $Ar-C\equiv N$
12 Nitrocompuestos:	$R-NO_2$; $Ar-NO_2$

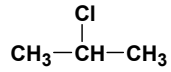
HALUROS DE ALQUILO

ACÍCLICOS SATURADOS

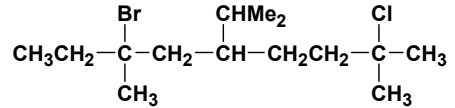




1-Bromo-2,2-dimetilpropano
Bromuro de neopentilo

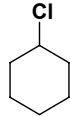


2-Cloropropano
Cloruro de isopropilo

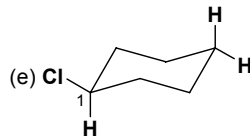


7-Bromo-2-cloro-5-isopropil-2,7-dimetilnonano

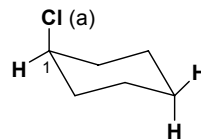
CÍCLICOS SATURADOS



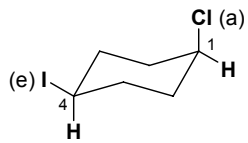
(Clorociclohexano ; Cloruro de ciclohexilo)



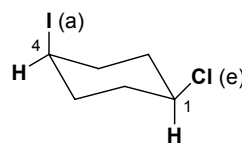
(e) Clorociclohexano



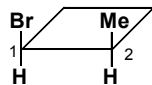
(a) Clorociclohexano



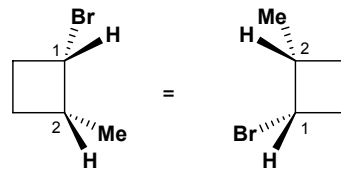
(*cis*) (1a)-Cloro-(4e)-yodociclohexano



(*cis*) (1e)-Cloro-(4a)-yodociclohexano

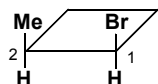


(*cis*) (1*S*,2*R*) 1-Bromo-2-metilciclobutano

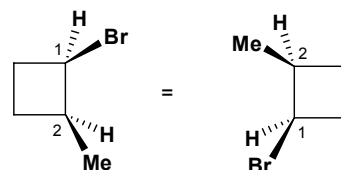


(*cis*) (1*S*,2*R*)

(*cis*) (1*S*,2*R*)

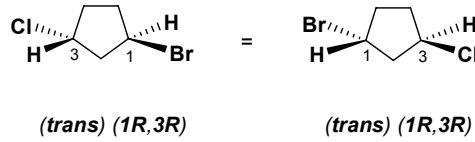
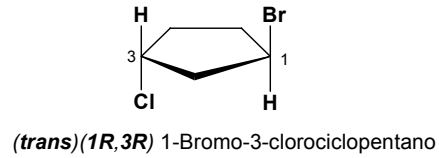
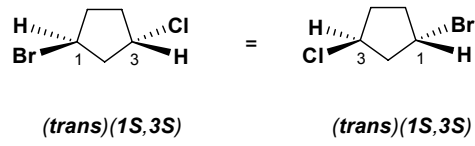
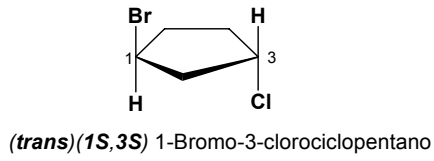


(*cis*) (1*R*,2*S*) 1-Bromo-2-metilciclobutano

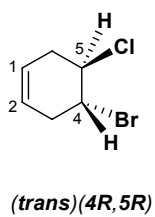
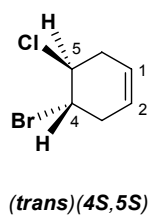
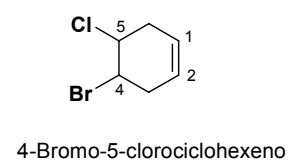
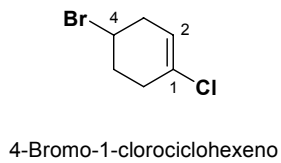
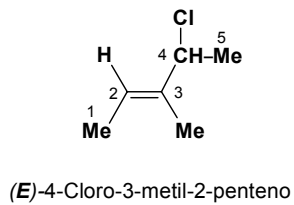
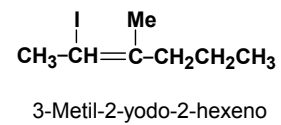
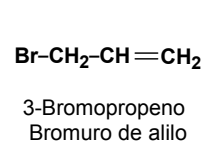
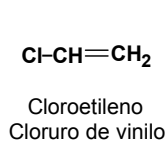
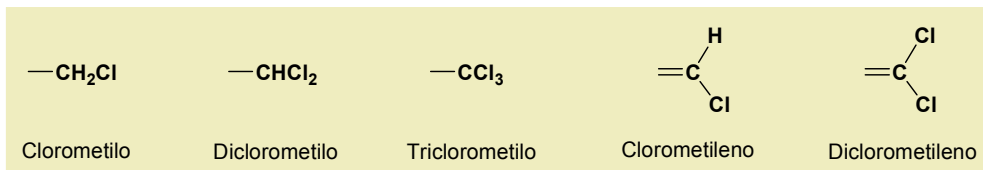


(*cis*) (1*R*,2*S*)

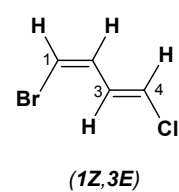
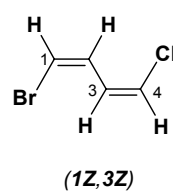
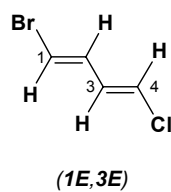
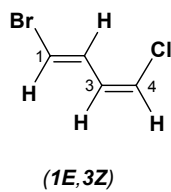
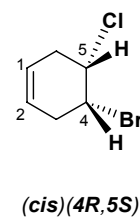
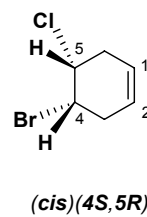
(*cis*) (1*R*,2*S*)



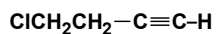
INSATURADOS ALIFÁTICOS



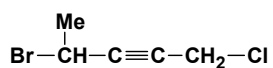
(4-Bromo-5-clorociclohexeno)



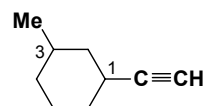
(1-Bromo-4-cloro-1,3-butadieno)



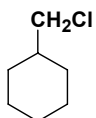
4-Cloro-1-butino



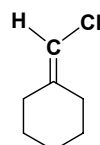
4-Bromo-1-cloro-2-pentino



(3-Metilciclohexil)acetileno

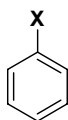


Clorometilciclohexano



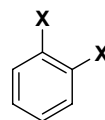
Clorometilenciclohexano

HIDROCARBUROS AROMÁTICOS



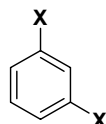
(X = F, Cl, Br, I)

(Clorobenceno, Bromobenceno, etc.)



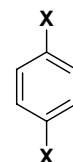
(X = F, Cl, Br, I)

(o-Diclorobenceno, o-Bromoclorobenceno, etc.)



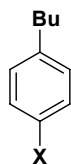
(X = F, Cl, Br, I)

(m-Dibromobenceno, m-Fluoroyodobenceno, etc.)



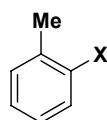
(X = F, Cl, Br, I)

(p-Diyodobenceno, p-Bromoyodobenceno, etc.)



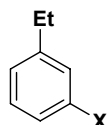
(X = F, Cl, Br, I)

(p-Bromobutilbenceno, p-Butilclorobenceno etc.)



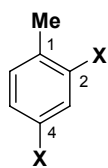
(X = F, Cl, Br, I)

(o-Clorotolueno, o-Bromotolueno etc.)



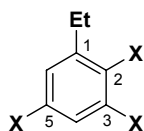
(X = F, Cl, Br, I)

(m-Etilyodobenceno, m-Etilfluorbenceno, etc.)



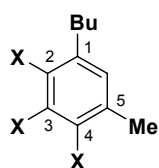
(X = F, Cl, Br, I)

4-Bromo-2-clorotolueno, 2-Bromo-4-yodotolueno etc.)



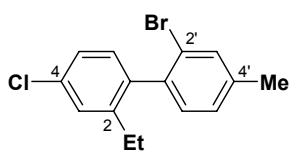
(X = F, Cl, Br, I)

(2,3,5-Tricloroetilbenceno, 2-Bromo-3,5-dicloroetilbenceno etc.)

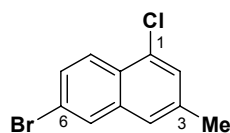


(X = F, Cl, Br, I)

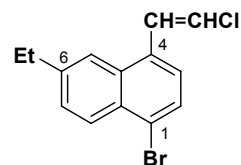
(4-Bromo-2,3-dicloro-5-metilbutilbenceno, 5-Metil-2,3,4-triyodobutilbenceno etc.)



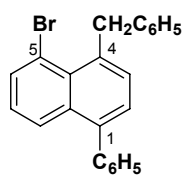
2'-Bromo-4-cloro-2-etil-4'-metilbifenilo



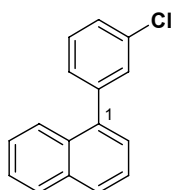
6-Bromo-1-cloro-3-metilnaftaleno



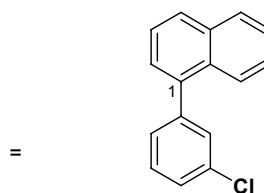
1-Bromo-4-(2-clorovinil)-6-etilnaftaleno



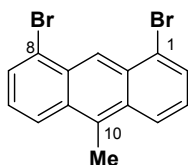
4-Bencil-5-bromo-1-fenilnaftaleno



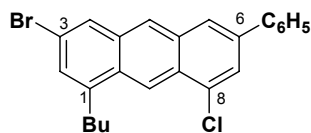
1-(m-Clorofenil)naftaleno



m-(1-Naftil)clorobenceno

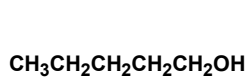
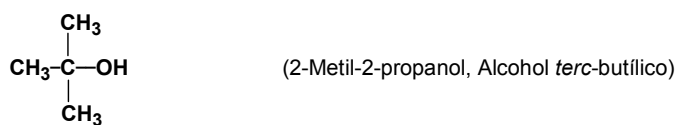
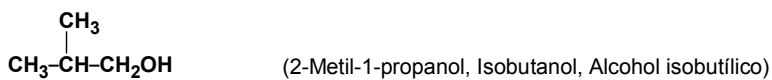
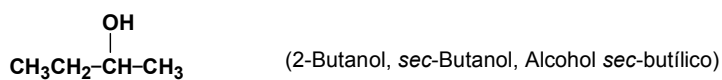
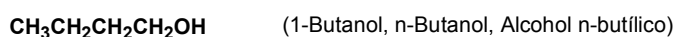
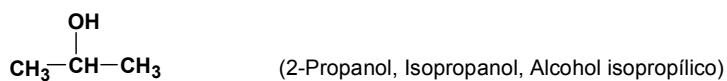
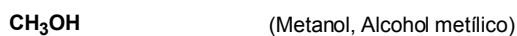
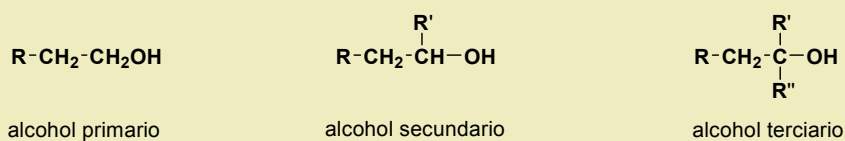


1,8-Dibromo-10-metilantraceno

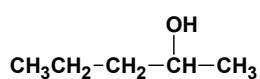


3-Bromo-1-butil-8-cloro-6-fenilantraceno

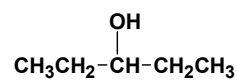
ALCOHOLES Y FENOLES



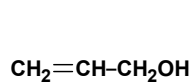
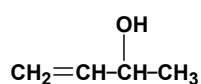
1-Pentanol



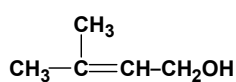
2-Pentanol



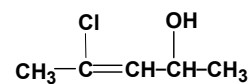
3-Pentanol

2-Propen-1-ol
Alcohol alílico

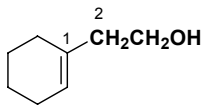
3-Buten-2-ol



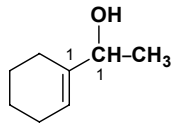
3-Metil-2-buten-1-ol



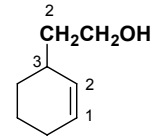
4-Cloro-3-penten-2-ol



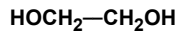
2-(1-Ciclohexenil)etanol



1-(1-Ciclohexenil)etanol

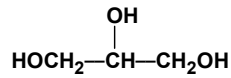


2-(2-Ciclohexenil)etanol



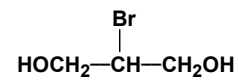
1,2-Etanodiol

Etilenglicol

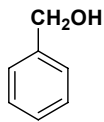


1,2,3-Propanotriol

Glicerina

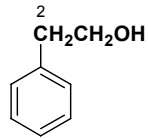


2-Bromo-1,3-propanodiol

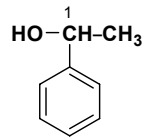


Fenilmetanol

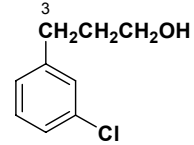
Alcohol bencílico



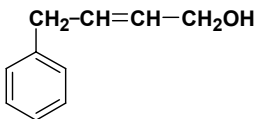
2-Feniletanol



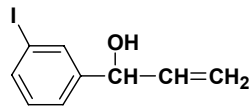
1-Feniletanol



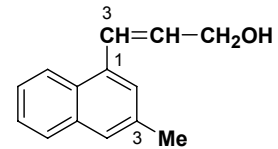
3-(m-Clorofenil)-1-propanol



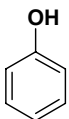
4-Fenil-2-buten-1-ol



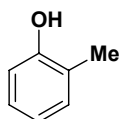
1-(m-Yodofenil)-2-propen-1-ol



3-[1-(3-Metilnaftil)]-2-propen-1-ol

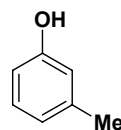


Fenol



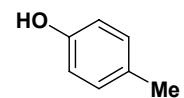
o-Metilfenol

o-Cresol



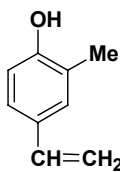
m-Metilfenol

m-Cresol

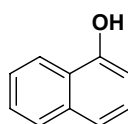


p-Metilfenol

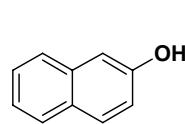
p-Cresol



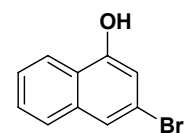
2-Meti-4-vinilfenol



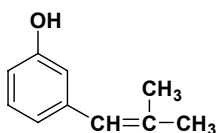
1-Naftol

 α -Naftol

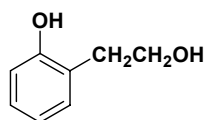
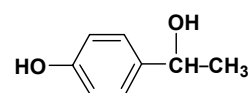
2-Naftol

 β -Naftol

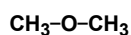
3-Bromo-1-naftol



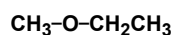
m-(2-Metil-1-propenil)fenol

o-(2-Hidroxietyl)fenol
2-(o-Hidroxiifenil)etanolp-(1-Hidroxietyl)fenol
1-(p-Hidroxiifenil)etanol

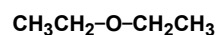
ÉTERES



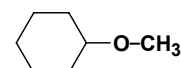
Dimetil éter



Etil metil éter



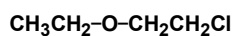
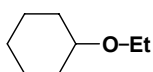
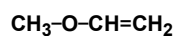
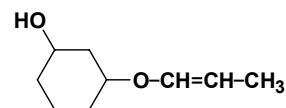
Dietil éter



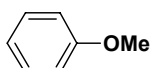
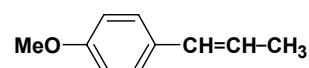
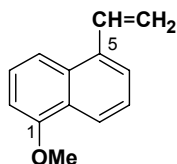
Ciclohexil metil éter

MeO-
Metoxi

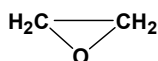
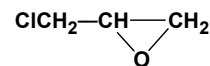
EtO-
Etoxi

(2-Cloroetil) etil éter
1-Cloro-2-etoxietanoCiclohexil etil éter
EtoxiciclohexanoMetil vinil éter
Metoxietileno

(3-Hidroxiciclohexil) (1-propenil) éter

Fenil metil éter
Metoxibenceno
Anisol(p-Hidroxiifenil) etil éter
p-EtoxiifenolMetil [p-(1-propenil) fenil] éter
Anetol

1-Metoxi-5-vinilnaftaleno

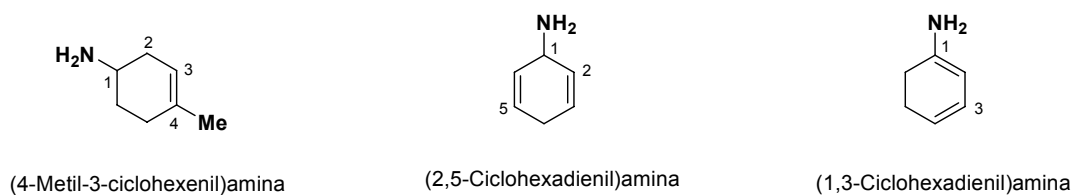
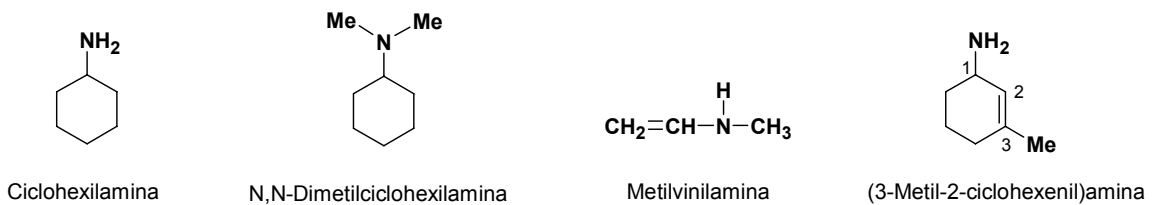
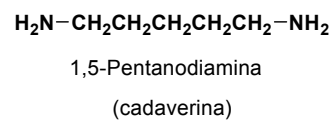
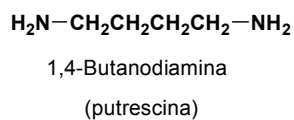
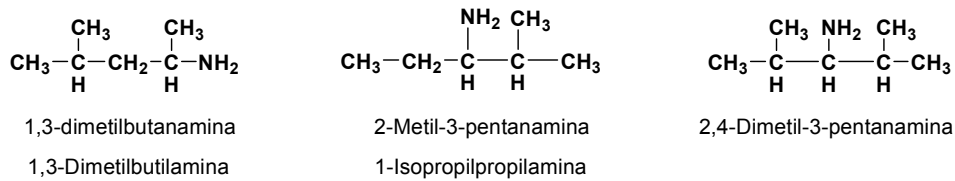
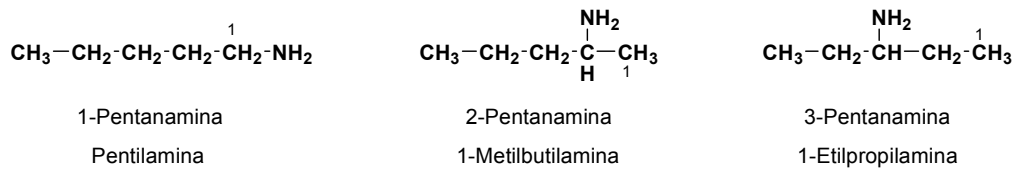
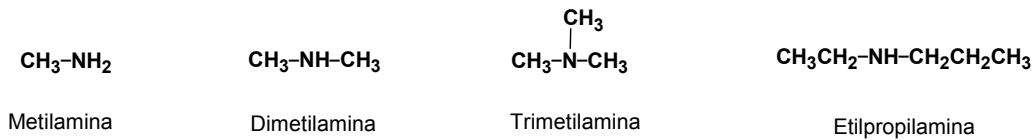
Oxirano
Oxido de etilenoClorometil oxirano
1-Cloro-2,3-epoxipropano

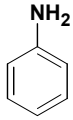
C₆H₅O-
Fenoxi

C₆H₅CH₂O-
Benciloxi

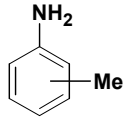
CH₂=CH-CH₂O-
Aliloxi

AMINAS

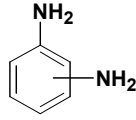




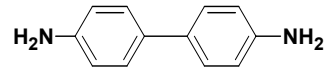
Fenilamina
Anilina



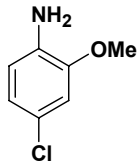
o-, m-, p- Metilanilina
o-, m-, p-Toluidina



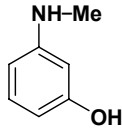
o-, m-, p- Fenilendiamina



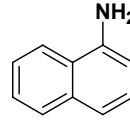
p-(p-Aminofenil)anilina
Bencidina



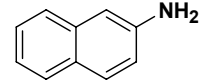
4-Cloro-2-metoxianilina



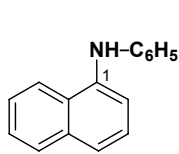
(m-Hidroxifenil)metilamina



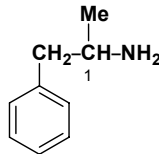
1-Naftilamina
 α -Naftilamina



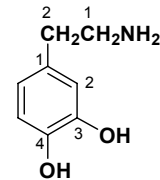
2-Naftilamina
 β -Naftilamina



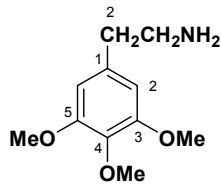
(N-Fenil)-1-naftilamina



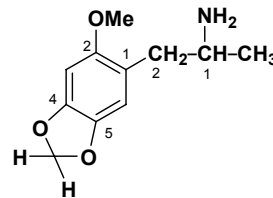
2-Fenilisopropilamina
Anfetamina



2-(3,4-Dihidroxifenil) etilamina
Dopamina



2-(3,4,5-Trimetoxifenil) etilamina
Mescalina (alucinógeno)



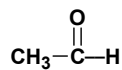
2-(2-Metoxi-4,5-metilendioxfenil)isopropilamina
MDA ("Extasis")

ALDEHIDOS



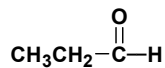
(H-CHO ; CH₂O)

(Metanal, Formaldehido, Formol)



(CH₃-CHO)

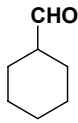
(Etanal, Acetaldehido)



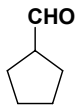
(CH₃CH₂-CHO)

(Propanal, Propionaldehido)

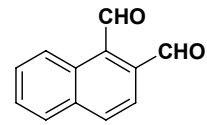
Cuando el grupo **-CHO** está unido directamente a un átomo de carbono de un sistema cíclico, el nombre del aldehído se forma añadiendo el sufijo “**carbaldehído**” al nombre del sistema cíclico:



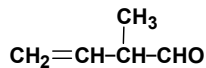
Ciclohexanocarbaldehído



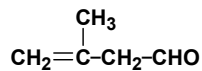
Ciclopentanocarbaldehído



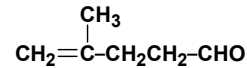
1,2-Naftalenodicarbaldehído



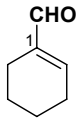
2-Metil-3-butenal



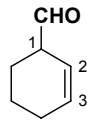
3-Metil-3-butenal



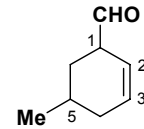
4-Metil-4-pental



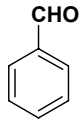
1-Ciclohexeno-1-carbaldehído



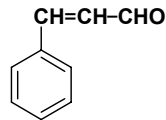
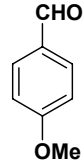
2-Ciclohexeno-1-carbaldehído



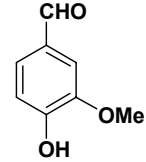
5-Metil-2-ciclohexeno-1-carbaldehído



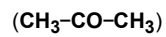
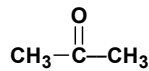
Benzaldehído

3-Fenilpropenal
Cinamaldehído

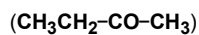
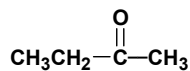
p-Metoxibenzaldehído

4-Hidroxi-3-metoxibenzaldehído
Vainillina

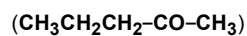
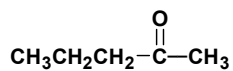
CETONAS



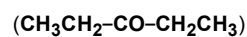
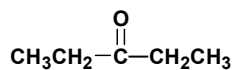
(Dimetil cetona, Propanona, Acetona))



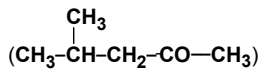
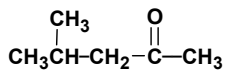
(Etil metil cetona, Butanona)



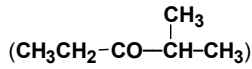
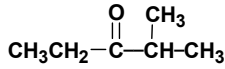
(Metil propil cetona, 2-Pentanona)



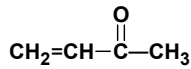
(Dietil cetona, 3-Pentanona)



(Isobutil metil cetona, 4-Metil-2-pentanona)

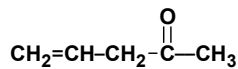


(Etil isopropil cetona, 2-Metil-3-pentanona)



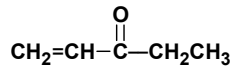
Metil vinil cetona

3-Buten-2-ona



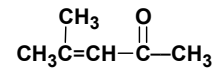
Alil metil cetona

4-Penten-2-ona



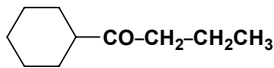
Etil vinil cetona

1-Penten-3-ona

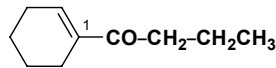


(2-Metil-1-propenil) metil cetona

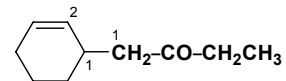
4-Metil-3-penten-2-ona



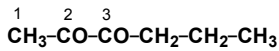
Ciclohexil propil cetona



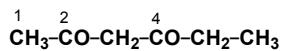
1-Ciclohexenil propil cetona



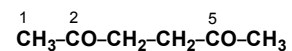
1-(2-Ciclohexenil)-2-butanona



2,3-Hexanodiona



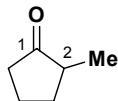
2,4-Hexanodiona



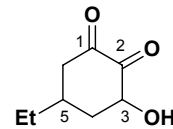
2,5-Hexanodiona



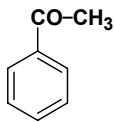
Ciclobutanona



2-Metilciclopentanona

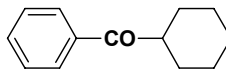


5-Etil-3-hidroxi-1,2-ciclohexanodiona

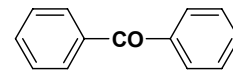


Fenil metil cetona

Acetofenona

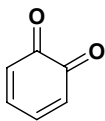


Ciclohexil fenil cetona

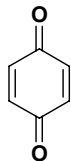


Difenil cetona

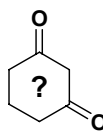
Benzofenona



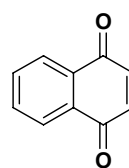
o-Bezoquinona



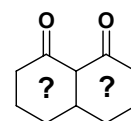
p-Bezoquinona



m-Bezoquinona (?)

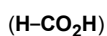
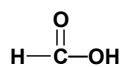


1,4-Naftoquinona

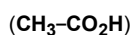
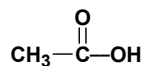


1,8-Naftoquinona (?)

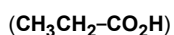
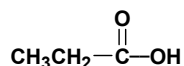
ÁCIDOS CARBOXÍLICOS



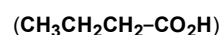
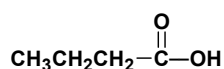
(Ác. metanoico, Ác. fórmico)



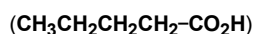
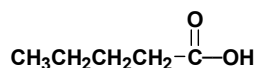
(Ác. etanoico, Ác. acético)



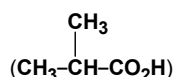
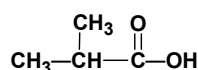
(Ác. propanoico, Ác. Propiónico)



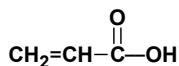
(Ác. butanoico, Ác. butírico)



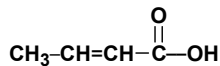
(Ác. pentanoico, Ác. valérico)



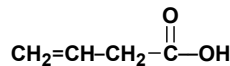
(Ác. 2-metilpropanoico, Ác. isobutírico)



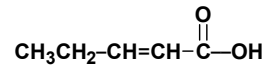
Ác. propenoico
Ác. acrílico



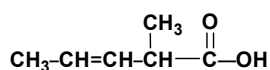
Ác. 2-butenoico



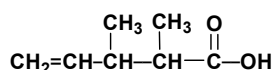
Ác. 3-butenoico



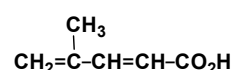
Ác. 2-pentenoico



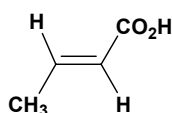
Ác. 2-metil-3-pentenoico



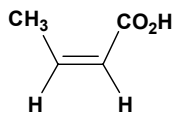
Ác. 2,3-dimetil-4-pentenoico



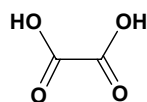
Ác. 4-metil-2,4-pentadienoico



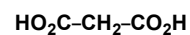
Ác. (E) 2-butenoico
Ác. crotónico



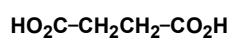
Ác. (Z) 2-butenoico
Ác. isocrotónico



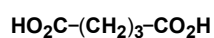
Ác. etanodioico
Ác. oxálico



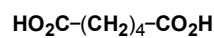
Ác. propanodioico
Ác. malónico



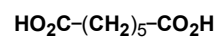
Ác. butanodioico
Ác. succínico



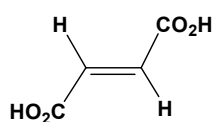
Ác. pentanodioico
Ác. glutárico



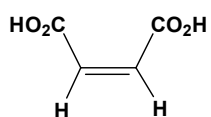
Ác. hexanodioico
Ác. adípico



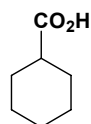
Ác. heptanodioico
Ác. pimélico

ác. (*E*) 2-Butenodioico

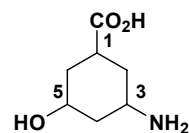
ác. Fumárico

ác. (*Z*) 2-Butenodioico

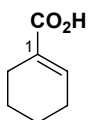
ác. Maleico



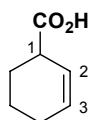
ác. Ciclohexanocarboxílico



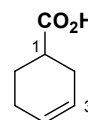
ác. 3-Amino-5-hidroxi-ciclohexanocarboxílico



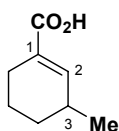
Ác. 1-ciclohexen-1-carboxílico



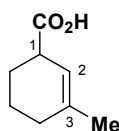
Ác. 2-ciclohexen-1-carboxílico



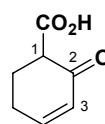
Ác. 3-ciclohexen-1-carboxílico



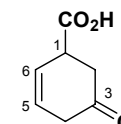
ác. (3-Metil-1-ciclohexen)-1-carboxílico



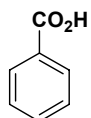
ác. (3-Metil-2-ciclohexen)-1-carboxílico



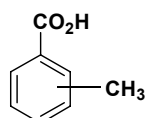
ác. (2-Oxo-3-ciclohexen)-1-carboxílico



ác. (3-Oxo-5-ciclohexen)-1-carboxílico

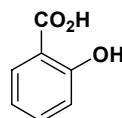


Ác. benzoico



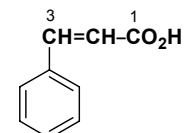
Ác. o-, m-, p-metilbenzoico

Ác. o-, m-, p-toluico



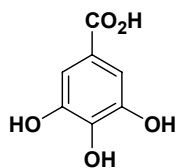
Ác. o-hidroxibenzoico

Ác. salicílico



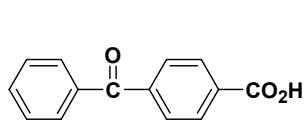
Ác. 3-fenilpropenoico

Ác. cinámico

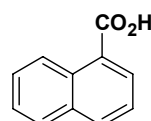


Ác. 3,4,5-trihidroxibenzoico

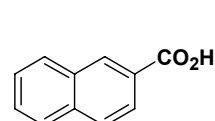
Ác. gálico



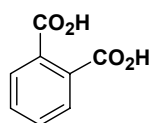
Ác. p-benzoilbenzoico



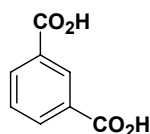
Ác. 1-naftalenocarboxílico



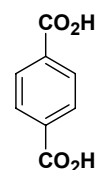
Ác. 2-naftalenocarboxílico



Ác. ftálico

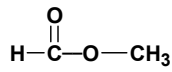


Ác. isoftálico

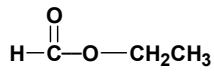


Ác. tereftálico

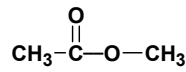
ÉSTERES



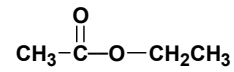
Formiato de metilo



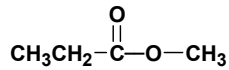
Formiato de etilo



Acetato de metilo

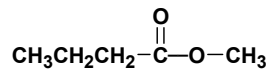


Acetato de etilo



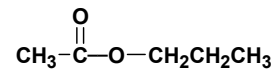
Propanoato de metilo

Propionato de metilo

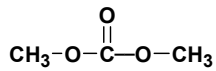


Butanoato de metilo

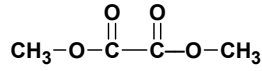
Butirato de metilo



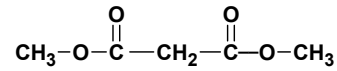
Acetato de propilo



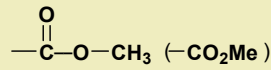
Carbonato de dimetilo



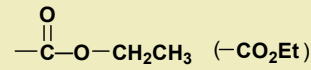
Oxalato de dimetilo



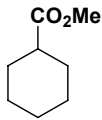
Malonato de dimetilo



Metoxicarbonilo

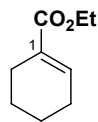


Etoxicarbonilo

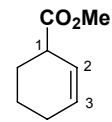


Ciclohexanocarboxilato de metilo

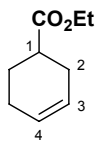
Metoxicarbonilciclohexano



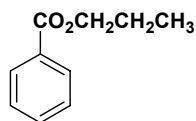
1-Etoxicarbonilciclohexeno



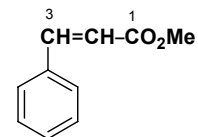
1-Metoxicarbonil-2-ciclohexeno



1-Etoxicarbonil-3-ciclohexeno

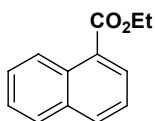


Benzoato de propilo



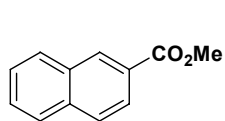
3-Fenilpropenoato de metilo

Cinamato de metilo



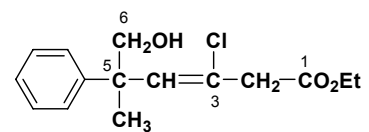
1-Naftalenocarboxilato de etilo

1-Etoxicarbonilnaftaleno



2-Naftalenocarboxilato de metilo

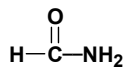
2-Metoxicarbonilnaftaleno



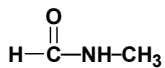
3-Cloro-5-fenil-6-hidroxi-5-metil-3-hexenoato de etilo

AMIDAS

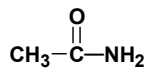
Las amidas se nombran sustituyendo la terminación **ico** de los ácidos, por la palabra **amida** (fórmico, formamida; acético, acetamida; propiónico, propionamida, etc.)



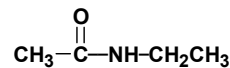
Formamida



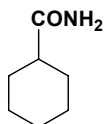
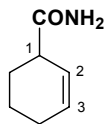
N-Metilformamida



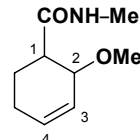
Acetamida



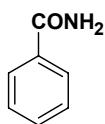
N-Etilacetamida

Ciclohexanocarboxamida
Carbamoilciclohexano

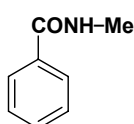
1-Carbamoil-2-ciclohexeno



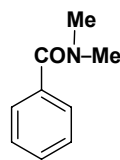
1-(N-Metilcarbamoil)-2-metoxi-3-ciclohexeno



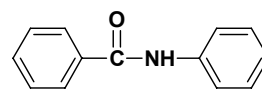
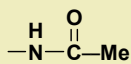
Benzamida



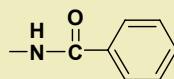
N-Metilbenzamida



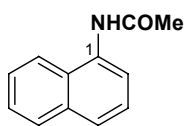
N,N-Dimetilbenzamida

Benzanilida
(N-Benzoil) anilina

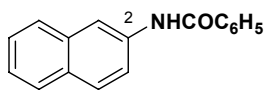
Acetilamino



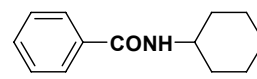
Benzoilamino



1-(N-Acetilamino) naftaleno



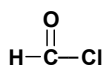
2-(N-Benzoilamino) naftaleno



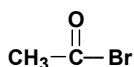
(N-Ciclohexil) benzamida

HALUROS DE ÁCIDO

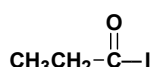
Los haluros de ácido se nombran sustituyendo la terminación **ico** de los ácidos, por **ilo** (fórmico, formilo; acético, acetilo; propiónico, propionilo, etc.)



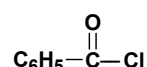
Cloruro de formilo



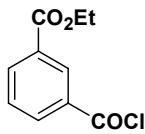
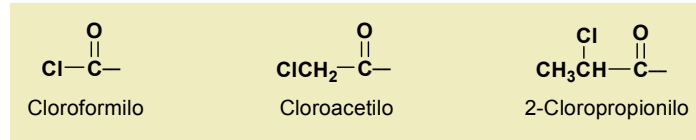
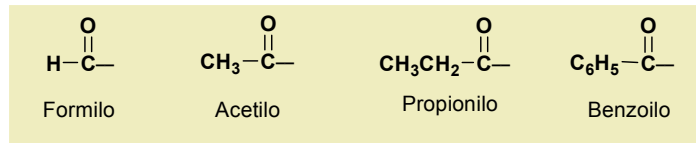
Bromuro de acetilo



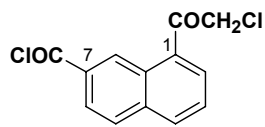
Yoduro de propanoilo



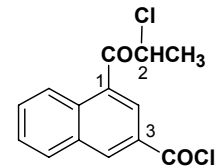
Cloruro de benzoilo



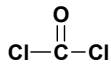
m-Cloroformil benzoato de etilo



1-Cloroacetil-7-cloroformilnaftaleno



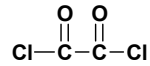
1-(2-Cloropropionil)-3-cloroformilnaftaleno



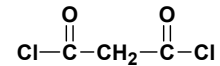
Dicloruro del ácido carbónico

Fosgeno

(empleado en la Primera Guerra Mundial)

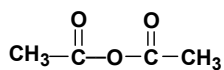


Dicloruro de oxalilo

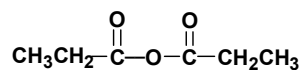


Dicloruro de malonilo

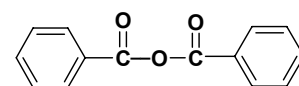
ANHIDRIDOS DE ÁCIDO

 $(\text{MeCO})_2\text{O}$; Ac_2O

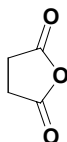
Anhídrido acético

 $(\text{EtCO})_2\text{O}$

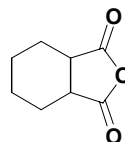
Anhídrido propiónico

 $(\text{C}_6\text{H}_5\text{CO})_2\text{O}$; Bz_2O

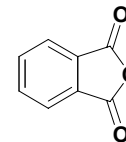
Anhídrido benzoico



Anhídrido Succínico



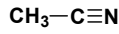
Anhídrido 1,2-Ciclohexanodicarboxílico



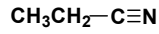
Anhídrido Ftálico

NITRILOS

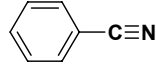
Los nitrilos se nombran sustituyendo la terminación **ico** de los ácidos, por **nitrilo** (propiónico, propionitrilo; butírico, butironitrilo; benzoico, benzonitrilo, etc.)



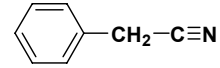
Etanonitrilo
Acetonitrilo



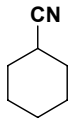
Propanonitrilo
Propionitrilo



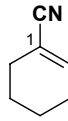
Benzonitrilo



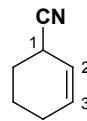
Fenilacetnitrilo



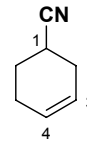
Ciclohexanocarbonitrilo



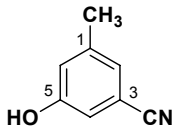
1-Ciclohexen-1-carbonitrilo



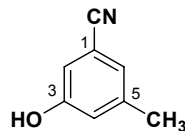
2-Ciclohexen-1-carbonitrilo



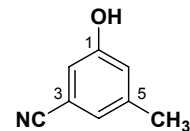
3-Ciclohexen-1-carbonitrilo



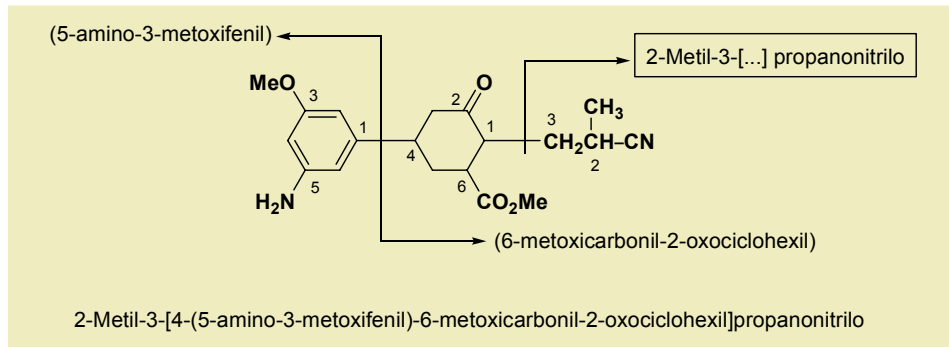
3-Ciano-5-hidroxitolueno



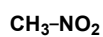
3-Hidroxi-5-metilbenzonitrilo



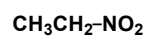
3-Ciano-5-metilfenol



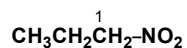
NITRODERIVADOS



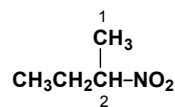
Nitrometano



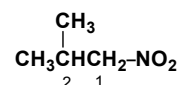
Nitroetano



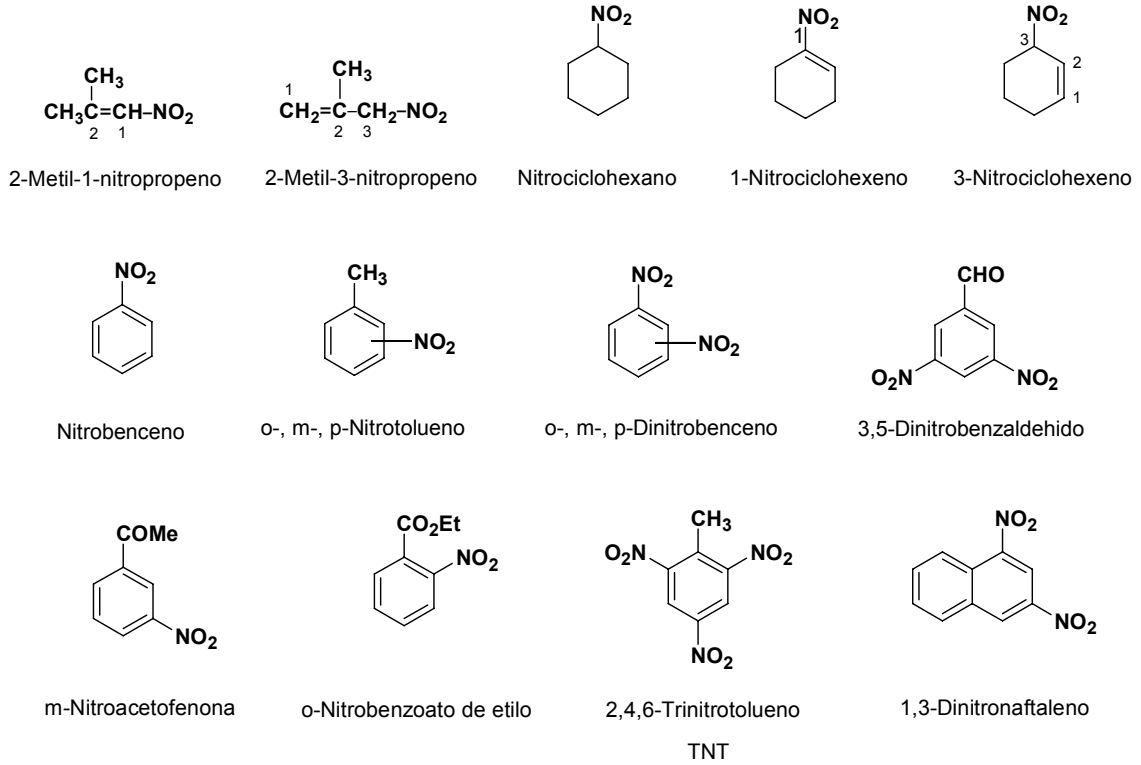
1-Nitropropano



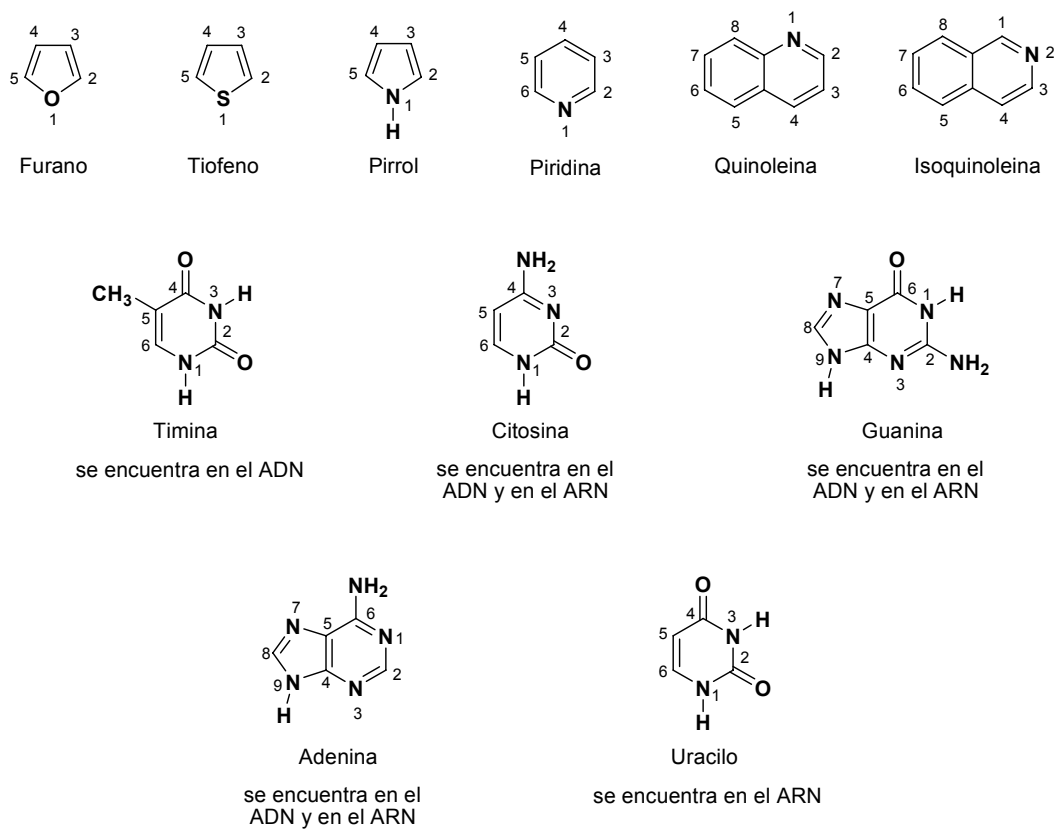
2-Nitrobutano



2-Metil-1-nitropropano



MOLÉCULAS HETEROCÍCLICAS



PRIORIDADES RELATIVAS DE GRUPOS CON HETEROÁTOMOS (NOMENCLATURA R/S)

Prioridades de los átomos: **H < C < N < O < F < Cl < Br < I**

NITRILOS

1 $\text{N}\equiv\text{C}-$ $\text{C}_1(\text{NNN})$

ALDEHIDOS Y CETONAS

2 $\text{H}-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OOH})$

3 $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OOC})$ $\text{C}_2(\text{HHH})$

4 $\text{CH}_3\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OOC})$ $\text{C}_2(\text{CHH})$ $\text{C}_3(\text{HHH})$

5 $\text{C}_6\text{H}_5-\text{CH}_2-\text{CO}-$ $\text{C}_1(\text{OOC})$ $\text{C}_2(\text{CHH})$ $\text{C}_3(\text{CCC})$

6 $\text{C}_6\text{H}_5-\text{CO}-$ $\text{C}_1(\text{OOC})$ $\text{C}_2(\text{CCC})$

AMIDAS

7 $\text{H}_2\text{N}-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{HH})$

8 $\text{CH}_3-\text{NH}-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CH})$ $\text{C}_3(\text{HHH})$

9 $\text{CH}_3-\text{CH}_2-\text{NH}-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CH})$ $\text{C}_3(\text{CHH})$

10 $\text{C}_6\text{H}_5-\text{NH}-\text{CO}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CH})$ $\text{C}_3(\text{CCC})$

11 $\text{CH}_3-\overset{\text{CH}_3}{\underset{|}{\text{N}}}-\text{CO}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CC})$ $\text{C}_3(\text{HHH})$

12 $\text{Et}-\overset{\text{Et}}{\underset{|}{\text{N}}}-\text{CO}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CC})$ $\text{C}_3(\text{CHH})$

13 $\text{C}_6\text{H}_5-\overset{\text{C}_6\text{H}_5}{\underset{|}{\text{N}}}-\text{CO}-$ $\text{C}_1(\text{OON})$ $\text{N}_2(\text{CC})$ $\text{C}_3(\text{CCC})$

ÁCIDOS Y ÉSTERES

14 $\text{HO}-\overset{\text{O}}{\parallel}{\text{C}}-$ $\text{C}_1(\text{OOO})$ $\text{O}_2(\text{H})$

15 $\text{CH}_3-\text{O}-\text{CO}-$ $\text{C}_1(\text{OOO})$ $\text{O}_2(\text{C})$ $\text{C}_3(\text{HHH})$

16 $\text{CH}_3-\text{CH}_2-\text{O}-\text{CO}-$ $\text{C}_1(\text{OOO})$ $\text{O}_2(\text{C})$ $\text{C}_3(\text{CHH})$

17 $\text{CH}_2=\text{CH}-\text{O}-\text{CO}-$ $\text{C}_1(\text{OOO})$ $\text{O}_2(\text{C})$ $\text{C}_3(\text{CCH})$

18 $\text{C}_6\text{H}_5-\text{O}-\text{CO}-$ $\text{C}_1(\text{OOO})$ $\text{O}_2(\text{C})$ $\text{C}_3(\text{CCC})$

AMINAS

19	$\text{H}_2\text{N}-$	$\text{N}_1(\text{HH})$	
20	$\text{CH}_3-\text{NH}-$	$\text{N}_1(\text{CH})$	$\text{C}_2(\text{HHH})$
21	$\text{C}_6\text{H}_5-\text{NH}-$	$\text{N}_1(\text{CH})$	$\text{C}_2(\text{CCC})$
22	$\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3-\text{N}- \end{array}$	$\text{N}_1(\text{CC})$	$\text{C}_2(\text{HHH})$
23	$\begin{array}{c} \text{C}_6\text{H}_5 \\ \\ \text{C}_6\text{H}_5-\text{N}- \end{array}$	$\text{N}_1(\text{CC})$	$\text{C}_2(\text{CCC})$

NITRODERIVADOS

24	$\begin{array}{c} \text{O} \\ \\ \text{O}-\text{N}- \end{array}$	$\text{N}_1(\text{OOO})$	
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ALCOHOLES, FENOLES Y ÉTERES

25	$\text{HO}-$	$\text{O}_1(\text{H})$	
26	$\text{CH}_3-\text{O}-$	$\text{O}_1(\text{C})$	$\text{C}_2(\text{HHH})$
27	$\text{CH}_3\text{CH}_2-\text{O}-$	$\text{O}_1(\text{C})$	$\text{C}_2(\text{CHH})$ $\text{C}_3(\text{HHH})$
28	$\text{C}_6\text{H}_5\text{CH}_2-\text{O}-$	$\text{O}_1(\text{C})$	$\text{C}_2(\text{CHH})$ $\text{C}_3(\text{CCC})$
29	$\text{C}_6\text{H}_5-\text{O}-$	$\text{O}_1(\text{C})$	$\text{C}_2(\text{CCC})$

PRIORIDADES DE LOS GRUPOS FUNCIONALES

Éteres > Fenoles, Alcoholes > Nitroderivados > Aminas > Ésteres > Ácidos > Amidas > Cetonas > Aldehidos > Nitrilos

EJERCICIOS ADICIONALES

4.1 Ordena los siguientes radicales de menor a mayor prioridad:

