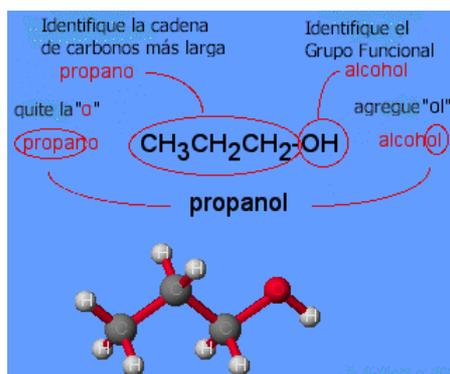




# 202 EJEMPLOS DE FORMULACIÓN ORGÁNICA



1º BACHILLERATO

# Cayetano Gutiérrez Pérez

(Catedrático Física y Química y Divulgador Científico)

Cartagena (6-6-2012)

	FÓRMULA	NOMBRE
ALCANOS		
1.	$  \begin{array}{cccccc}  \text{CH}_3 & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_3 \\  & &   & &   & & & &   & & \\  & & \text{CH}_3 & & \text{CH}_2 & & & & \text{CH}_3 & & \\  & & & &   & & & & & & \\  & & & & \text{CH}_3 & & & & & &   \end{array}  $	3 - etil - 2, 5 - dimetilhexano
2.	$  \begin{array}{cccccccc}  \text{CH}_3 & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH} & - & \text{CH} & - & \text{CH}_3 \\  & & & & & &   & &   & &   & & \\  & & & & & & \text{CH}_2 & & \text{CH}_2 & & \text{CH}_3 & & \\  & & & & & &   & &   & & & & \\  & & & & & & \text{CH}_2 & & \text{CH}_3 & & & & \\  & & & & & &   & & & & & & \\  & & & & & & \text{CH}_3 & & & & & &   \end{array}  $	3 - etil - 2 - metil - 4 - propilheptano
3.	$  \begin{array}{ccccccc}  & & & & \text{CH}_3 & & \\  & & & &   & & \\  \text{CH}_3 & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_3 \\  & & & &   & &   & & & & \\  & & & & \text{CH}_3 & & \text{CH}_2 & & & & \\  & & & & & &   & & & & \\  & & & & & & \text{CH}_3 & & & &   \end{array}  $	4 - etil - 3, 3 - dimetilhexano
4.	$  \begin{array}{ccc}  & & \text{CH}_3 \\  & &   \\  \text{CH}_3 & - & \text{C} & - & \text{CH}_3 \\  & &   \\  & & \text{CH}_3  \end{array}  $	Dimetilpropano
5.	$  \begin{array}{cccccccc}  \text{CH}_3 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_3 \\  & & & &   & &   & & & & & & \\  & & & & \text{CH}_3 & & \text{CH}_2 & & & & & & \\  & & & & & &   & & & & & & \\  & & & & & & \text{CH}_3 & & & & & &   \end{array}  $	4 - etil - 3 - metilheptano
6.	$  \begin{array}{ccccccccccc}  & & & & \text{CH}_3 & & & & & & & & \\  & & & &   & & & & & & \text{CH}_3 & & \\  & & & & \text{CH}_2 & & & & & &   & & \\  \text{CH}_3 & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3 \\  & & & &   & & & & & &   & & & \\  & & & & \text{CH}_2 & & & & & & \text{CH}_2 & & & \\  & & & &   & & & & & &   & & & \\  & & & & \text{CH}_3 & & & & & & \text{CH}_3 & & &   \end{array}  $	3, 3, 6 - trietil - 6 - metiloctano
7.	$  \begin{array}{ccc}  & & \text{CH}_3 \\  & &   \\  \text{CH}_3 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3 \\  & &   \\  & & \text{CH}_3  \end{array}  $	2, 2 - dimetilbutano

	FÓRMULA	NOMBRE
ALCANOS		
8.	$  \begin{array}{ccccccccccc}  & & & & & \text{CH}_3 & & & & & & \\  & & & & &   & & & & & & \\  \text{CH}_3 - & \text{CH}_2 - & \text{CH} - & \text{CH}_2 - & \text{CH} - & \text{CH} - & \text{CH}_2 - & \text{CH}_2 - & \text{CH}_3 \\  & &   & &   & & & & \\  & & \text{CH}_2 & & \text{CH}_2 & & & & \\  & &   & &   & & & & \\  & & \text{CH}_3 & & \text{CH}_3 & & & &   \end{array}  $	3, 5 - dietil - 6 - metilnonano
9.	$  \begin{array}{cccccccc}  \text{CH}_3 - & \text{CH} - & \text{CH} - & \text{CH}_2 - & \text{CH} - & (\text{CH}_2)_4 - & \text{CH}_3 \\  &   &   & &   & & \\  & \text{CH}_3 & \text{CH}_3 & & \text{CH}_3 & &   \end{array}  $	2, 3, 5 - trimetildecano
10.	$  \begin{array}{ccccccc}  \text{CH}_2 - & \text{CH}_2 - & \text{CH} - & \text{CH}_3 \\    & &   & \\  \text{CH}_2 & & \text{CH}_2 & \\    & &   & \\  \text{CH}_3 & & \text{CH}_2 & \\  & &   & \\  & & \text{CH}_3 &   \end{array}  $	4 - metiloctano
11.	$  \begin{array}{ccccccccccc}  \text{CH}_3 - & \text{CH} - & \text{CH}_2 - & \text{CH}_2 - & \text{CH} - & \text{CH}_2 - & \text{CH}_3 \\  &   & & &   & & \\  & \text{CH}_3 & & & \text{CH}_2 & & \\  & & & &   & & \\  & & & & \text{CH}_3 & &   \end{array}  $	5 - etil - 2 - metilheptano
12.	$  \begin{array}{ccccccccccc}  & & \text{CH}_3 & & & & & & & & & \\  & &   & & & & & & & & & \\  \text{CH}_3 - & \text{C} - & \text{CH}_2 - & \text{CH}_2 - & \text{CH} - & \text{CH}_2 - & \text{CH}_3 \\  &   & & &   & & \\  & \text{CH}_3 & & & \text{CH}_2 & & \\  & & & &   & & \\  & & & & \text{CH}_3 & &   \end{array}  $	5 - etil - 2, 2 - dimetilheptano
13.	$  \begin{array}{ccccccccccc}  & & \text{CH}_3 & & \text{CH}_3 & & & & & & & \\  & &   & &   & & & & & & & \\  \text{CH}_3 - & \text{CH} - & \text{CH}_2 - & \text{C} - & \text{CH}_2 - & \text{CH}_3 \\  & & &   & & \\  & & & \text{CH}_2 & & \\  & & &   & & \\  & & & \text{CH}_2 & & \\  & & &   & & \\  & & & \text{CH}_3 & &   \end{array}  $	4 - etil - 2, 4 - dimetilheptano
14.	$  \begin{array}{ccccccc}  \text{CH}_3 - & (\text{CH}_2)_7 - & \text{CH} - & \text{CH}_3 \\  & &   & \\  & & \text{CH}_3 &   \end{array}  $	2 - metildecano

	FÓRMULA	NOMBRE
<b>ALCANOS</b>		
15.	$  \begin{array}{cccccccc}  & & \text{CH}_3 & & & & & \\  & &   & & & & & \\  \text{CH}_3 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_3 & - & \text{CH}_3 & - & \text{CH}_3 \\  & &   & & & & & &   & & & & & & \\  & & \text{CH}_3 & & & & & & \text{CH} & & & & & & \\  & & & & & & & & / & \backslash & & & & & \\  & & & & & & & & \text{CH}_3 & & \text{CH}_3 & & & &   \end{array}  $	5 - isopropil - 2, 2 - dimetiloctano
16.	$  \begin{array}{cccccccc}  \text{CH}_3 & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH} & - & \text{CH} & - & (\text{CH}_2)_3 & - & \text{CH}_3 \\  & & & & & &   & &   & &   & & & & \\  & & & & & & \text{CH}_2 & & \text{CH}_2 & & \text{CH}_3 & & & & \\  & & & & & &   & &   & & & & & & \\  & & & & & & \text{CH}_3 & & \text{CH}_3 & & & & & &   \end{array}  $	4, 5 - dietil - 6 - metildecano

	FÓRMULA	NOMBRE
<b>ALQUENOS</b>		
17.	$\begin{array}{c} \text{CH}_2 = \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	2 - etil - 1 - penteno
18.	$\begin{array}{c} \text{CH}_2 = \text{C} - \text{CH}_2 - \text{C} = \text{CH} - \text{CH}_3 \\   \qquad \qquad   \\ \text{CH}_3 \qquad \qquad \text{CH}_2 \\ \qquad \qquad \qquad   \\ \qquad \qquad \qquad \text{CH}_3 \end{array}$	4 - etil - 2 - metil - 1, 4 - hexadieno
19.	$\begin{array}{c} \text{CH}_2 = \text{CH} - \text{C} = \text{CH} - \text{CH} = \text{CH}_2 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - etil - 1, 3, 5 - hexatrieno
20.	$\text{CH}_3 - \text{CH}_2 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH}_3$	3 - hexeno
21.	$\text{CH}_2 = \text{C} = \text{CH}_2$	1, 2 - propadieno
22.	$\begin{array}{c} \text{CH}_2 = \text{CH} - \text{CH}_2 - \text{CH} - \text{CH} = \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - metil - 1, 5 - hexadieno
23.	$\begin{array}{c} \text{CH}_3 - \text{CH} = \text{CH} - \text{CH} - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	4 - metil - 2 - penteno
24.	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_2 \\   \\ \text{CH}_2 = \text{CH} - \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3, 3 - dietil - 1 - hepteno
25.	$\begin{array}{c} \text{CH}_3 - \text{C} = \text{C} - \text{CH}_2 - \text{CH}_3 \\   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	2, 3 - dimetil - 2 - penteno
26.	$\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{CH} = \text{CH}_2$	1, 4 - pentadieno
27.	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{C} = \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	2 - metil - 1 - buteno

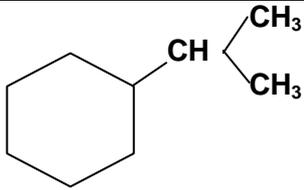
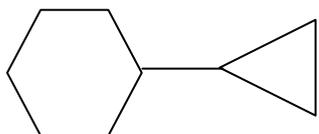
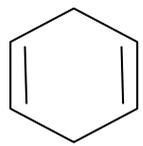
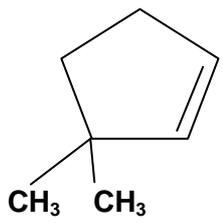
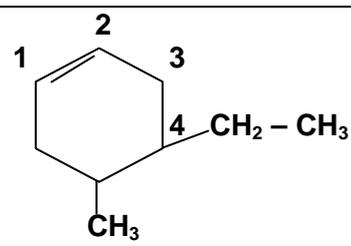
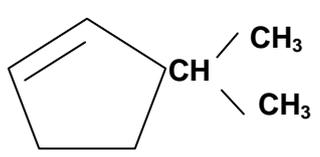
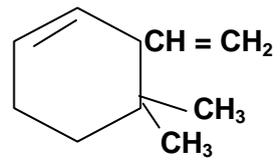
	FÓRMULA	NOMBRE
<b>ALQUENOS</b>		
28.	$\begin{array}{c} \text{CH}_3 - \text{C} = \text{CH} - \text{CH}_3 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - metil - 2 - penteno
29.	$\text{CH}_2 = \text{CH} - \text{CH} = \text{CH} - \text{CH} = \text{CH}_2$	1, 3, 5 - hexatrieno
30.	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{C} = \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\   \quad   \\ \text{CH}_2 \quad \text{CH}_2 \\   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	4, 5 - dietil - 4 - octeno
31.	$\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH}_3$	2 - penteno
32.	$\text{CH}_2 = \text{CH} - \text{CH} = \text{CH}_2$	1, 3 - butadieno

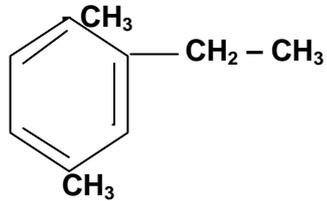
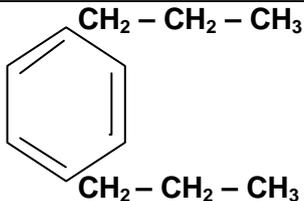
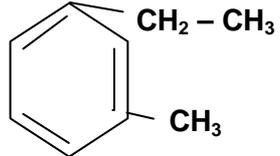
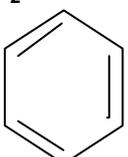
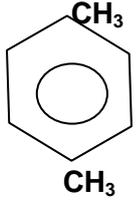
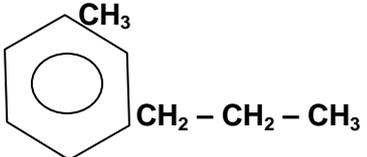
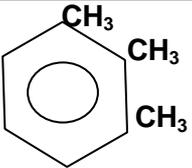
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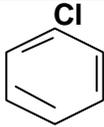
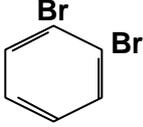
	<b>FÓRMULA</b>	<b>NOMBRE</b>
<b>ALQUINOS</b>		
33.	$\text{CH} \equiv \text{C} - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH}_2 - \text{C} \equiv \text{CH}$	3 - octen - 1, 7 - diino
34.	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH} - \text{C} \equiv \text{CH} \\   \\ \text{CH}_3 \end{array}$	3 - metil - 1 - pentino
35.	$\text{CH}_3 - \text{CH}_2 - \text{C} \equiv \text{CH}$	1 - butino
36.	$\text{CH} \equiv \text{C} - \text{CH} = \text{CH} - \text{C} \equiv \text{CH}$	3 - hexen - 1, 5 - diino
37.	$\text{CH}_2 = \text{CH} - \text{C} \equiv \text{C} - \text{C} \equiv \text{CH}$	1 - hexen - 3,5 - diino
38.	$\begin{array}{c} \text{CH} \equiv \text{C} - \text{CH} - \text{CH} = \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - metil - 1 - penten - 4 - ino
39.	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH} \equiv \text{C} - \text{CH} - \text{C} - \text{C} \equiv \text{C} - \text{CH}_3 \\   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	3, 4, 4 - trimetil - 1, 5 - heptadiino
40.	$\begin{array}{c} \text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH} - \text{C} \equiv \text{CH} \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - etil - 1, 5 - heptadiino
41.	$\begin{array}{c} \text{CH}_2 = \text{CH} - \text{C} \equiv \text{C} - \text{CH} = \text{C} - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	6 - metil - 1, 5 - heptadien - 3 - ino
42.	$\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{C} \equiv \text{CH}$	1 - penten - 4 - ino
43.	$\begin{array}{c} \text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH} - \text{C} \equiv \text{CH} \\   \\ \text{CH}_2 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	3 - propil - 1, 5 - heptadiino
44.	$\begin{array}{c} \text{CH} \equiv \text{C} - \text{CH} - \text{C} \equiv \text{C} - \text{CH} - \text{CH}_2 - \text{CH}_3 \\   \quad \quad   \\ \text{CH}_3 \quad \quad \text{CH}_3 \end{array}$	3, 6 - dimetil - 1, 4 - octadiino
45.	$\begin{array}{c} \text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_2 - \text{C} - \text{CH} = \text{C} = \text{CH} - \text{CH}_3 \\   \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	5 - metil - 5 - propil - 2, 3, 7 - nonatrieno

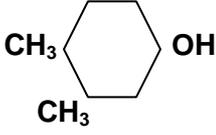
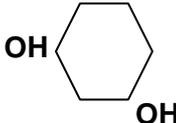
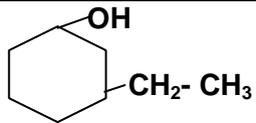
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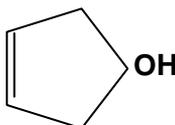
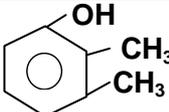
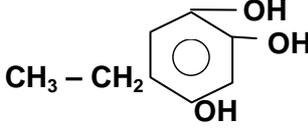
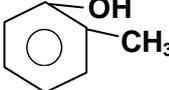
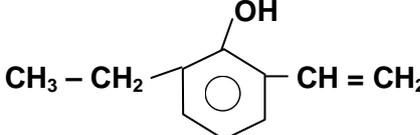
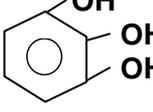
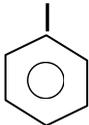
	FÓRMULA	NOMBRE
ALQUINOS		
46.	$\text{CH}_2 = \text{CH} - \text{C} \equiv \text{CH}$	1 - buten - 3 - ino

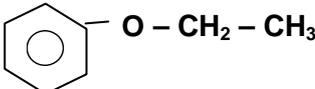
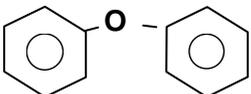
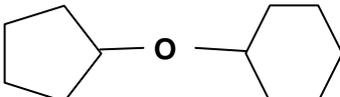
	FÓRMULA	NOMBRE
<b>HIDROCARBUROS CÍCLICOS</b>		
47.	$  \begin{array}{c}  \text{CH}_2 - \text{CH}_2 \\    \quad   \\  \text{CH} - \text{CH} \\    \quad   \\  \text{CH}_3 \quad \text{CH}_3  \end{array}  $	1, 2 - dimetilciclobutano
48.		Isopropilciclohexano
49.		Ciclopropilciclopentano
50.		1, 4 - ciclohexadieno
51.		3, 3 - dimetilciclopenteno
52.		4 - etil - 5 - metilciclohexeno
53.		3 - isopropilciclopenteno
54.		4, 4 - dimetil - 3 - vinilciclohexeno

	FÓRMULA	NOMBRE
<b>HIDROCARBUROS AROMÁTICOS</b>		
55.	$\text{CH}_3 - \text{C}_6\text{H}_4 - \text{CH}_3$ 	p-dimetilbenceno
56.		2 - etil - 1, 4 - dimetilbenceno
57.		p-dipropilbenceno
58.		m-etilmetilbenceno
59.	$\text{CH}_3 - \text{CH}_2 - \text{C} = \text{CH}_2$ 	2 - fenil - 1 - buteno
60.		p-dimetilbenceno
61.		m-metilpropilbenceno
62.		1, 2, 3 - trimetilbenceno

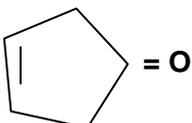
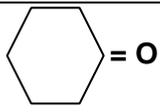
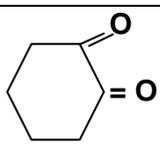
	FÓRMULA	NOMBRE
<b>HALOGENUROS DE ALQUILO</b>		
63.	$\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_3}{\text{CH}} - \text{CHBr} - \text{CH}_2\text{Cl}$	2 - bromo - 1 - cloro - 3 - metilpentano
64.	$\text{CH}_3 - \text{CH} = \underset{\text{Cl}}{\text{CH}} - \text{CH}_3$	1 - cloro - 2 - buteno
65.	$\text{CH}_2 = \text{CHCl}$	Cloroeteno o cloruro de vinilo
66.	$\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_3}{\text{CH}} - \text{CH} = \text{CH} - \text{CHBr}_2$	1, 1 - dibromo - 4 - metil - 2 - hexeno
67.	$\text{CH}_2\text{Cl} - \text{CHCl} - \text{C} \equiv \text{CH}$	3, 4 - dicloro - 1 - butino
68.		Clorobenceno
69.		p-clorometilbenceno o p-clorotolueno
70.	$\text{CH}_3 - \text{CHBr} - \text{CHBr} - \text{CH}_3$	2, 3 - dibromobutano
71.	$\text{CH}_3 - \text{CH} = \text{CH} - \text{CHCl} - \text{CH}_3$	4 - cloro - 2 - penteno
72.		o-dibromobencemo
73.	$\begin{array}{cc} \text{CH} = \text{CH} \\   \quad   \\ \text{Cl} \quad \text{Cl} \end{array}$	1, 2 - dicloroeteno

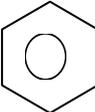
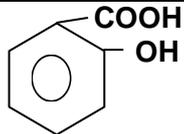
	FÓRMULA	NOMBRE
<b>ALCOHOLES Y FENOLES</b>		
74.	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{C} - \text{CH}_2\text{OH} \\   \\ \text{CH}_3 \end{array}$	2, 2 - dimetil - 1 - pentanol
75.	$\text{CH}_2\text{OH} - \text{CHOH} - \text{CH}_2\text{OH}$	1, 2, 3 - propanotriol
76.	$\text{CH}_2 = \text{CH} - \text{CH}_2\text{OH}$	2 - propen - 1 - ol
77.	$\text{CH}_2 = \text{CH} - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH}_2\text{OH}$	5 - hexen - 3 - in - 1 - ol
78.	$\text{CH}_2\text{OH} - \text{CH}_2\text{OH}$	Etanodiol
79.	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH} - \text{CH}_2\text{OH} \\   \\ \text{CH}_3 \end{array}$	2 - metil - 1 - pentanol
80.	$\text{CH}_2\text{OH} - \text{CHOH} - \text{CH}_2 - \text{CH}_3$	1, 2 - butanodiol
81.	$\begin{array}{ccccccc} \text{CH}_3 & - & \text{CH}_2 & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_2\text{OH} \\ & & & &   & &   & & & &   & & \\ & & & & \text{CH}_3 & & \text{OH} & & & & \text{OH} & & \end{array}$	5 - metil - 1, 2, 4 - heptanotriol
82.		3, 4 - dimetilciclohexanol
83.	$\text{CH}_2\text{OH} - \text{CHOH} - \text{COH} = \text{CH}_2$	3 - buten - 1, 2, 3 - triol
84.		1, 3 - ciclohexano - diol
85.	$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_2 - \text{CH}_2\text{OH} \\   \\ \text{CH}_3 \end{array}$	3 - metil - 1 - butanol
86.	$\begin{array}{c} \text{CH}_3 - \text{CH} = \text{CH} - \text{CHOH} \\   \\ \text{Cl} \end{array}$	1 - cloro - 2 - buten - 1 - ol
87.		3 - etilciclohexanol
88.	$\begin{array}{c} \text{CH}_2\text{OH} - \text{C} = \text{CH} - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	2 - metil - 2 - penten - 1 - ol

	FÓRMULA	NOMBRE
<b>ALCOHOLES Y FENOLES</b>		
89.		3 - ciclopenten - 1 - ol o 3 - ciclopentenol
90.	$\begin{array}{ccccccc} \text{CH}_3 & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_3 \\ & &   & & & &   & & \\ & & \text{OH} & & & & \text{CH}_3 & & \end{array}$	4 - metil - 2 - pentanol
91.	$\text{CH}_2\text{OH} - \text{CH}_2 - \text{CH}_2\text{OH}$	1, 3 - propanodiol
92.		p - clorofenol
93.		2, 3 - dimetilfenol
94.		5 - etil - 1, 2, 4 - bencenotriol
95.		o - metilfenol
96.		p - bromofenol
97.		2 - etil - 5 - vinilfenol
98.		1, 2, 3 - bencenotriol
99.	$\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH}_2\text{OH}$	3 - penten - 1 - ol
100.		2 - fenil - 1 - propanol

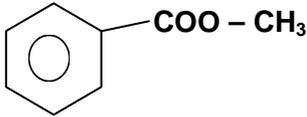
	FÓRMULA	NOMBRE
<b>ÉTERES</b>		
101	$\text{CH}_3 - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Etilpropiléter o etoxipropano
102	$\text{CH}_3 - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Metilpropiléter o metoxipropano
103	$\text{CH}_3 - \text{CHOH} - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{CH}_2\text{OH}$	2 - hidroxietil - 2 - hidroxipropiléter
104	$\text{CH}_3 - \text{O} - \text{CH}_3$	Dimetiléter
105	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{CH} \begin{array}{l} / \text{CH}_3 \\ \backslash \text{CH}_3 \end{array}$	Isopropilpropiléter
106		Etilfeniléter
107		Difeniléter
108	$\text{CH}_2 = \text{CH} - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Propilviniléter
109		Ciclohexilciclopentiléter

	FÓRMULA	NOMBRE
<b>ALDEHÍDOS Y CETONAS</b>		
110	$\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{C} \equiv \text{CH}$	1 - hepten - 6 - in - 4 - ona
111	$\text{CHO} - \text{CHOH} - \text{CH}_2 - \text{CHOH} - \text{CHO}$	2, 4 - dihidroxipentanodial
112	$\text{CH}_2\text{Cl} - \text{CH}_2 - \text{CHO}$	3 - cloropropanal
113	$\text{CHO} - \text{CH}_2 - \text{CH}_2 - \text{CHO}$	Butanodial
114	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{CH} = \text{CH}_2$	5 - hexen - 3 - ona
115	$\text{CH}_3 - \text{CO} - \text{CH}_2 - \text{CO} - \text{CH}_3$	2, 4 - pentanodiona
116	$\text{CH}_3 - \text{CO} - \text{CO} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	2, 3 - hexanodiona
117	$\text{CHO} - \text{CH}_2 - \text{CHO}$	Propanodial
118	$\text{CH}_3 - \text{CO} - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{CH}_3$	2,4,6 - octanotriona
119	 $\text{CH}_2 - \text{CH}_2 - \text{CHO}$	3 - fenilpropanal
120	$\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CHO}$	3 - metilpentanal
121	$\text{CH}_2 = \text{CH} - \text{CHO}$	Propenal
122	 $\text{CH} = \text{CH} - \text{CHO}$	3 - fenilpropenal
123	$\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{CH}_2 - \text{CHO}$	4 - pentenal
124	$\text{CH} \equiv \text{C} - \underset{\text{C}_6\text{H}_5}{\text{CH}} - \text{CH}_2 - \text{CHO}$	3 - fenil - 4 - pentinal
125	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CHO}$	Butanal
126	$\text{CHO} - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CHO}$	2 - heptenodial
127	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \underset{\text{CH}_2}{\underset{\text{CH}_3}{\text{CH}}} - \underset{\text{CH}_3}{\text{CH}} - \text{CHO}$	3 - etil - 2 - metilhexanal

	FÓRMULA	NOMBRE
<b>ALDEHÍDOS Y CETONAS</b>		
128	$\begin{array}{ccccccc} \text{CH}_3 & - & \text{CH}_2 & - & \text{CH} & - & \text{CO} & - & \text{CH} & - & \text{CH}_3 \\ & & & &   & & & &   & & \\ & & & & \text{CH}_3 & & & & \text{CH}_3 & & \end{array}$	2, 4 - dimetil - 3 - hexanona
129		3 - ciclopentenona
130		Ciclohexanona
131	$\text{CH}_3 - \text{CO} - \text{CO} - \text{CH}_3$	Butanodiona
132	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{CH}_3 - \text{CH}_3$	3 - pentanona
133		1, 2 - ciclohexadiona
134	$\begin{array}{ccccccc} \text{CH}_3 & - & \text{CH} & - & \text{CO} & - & \text{CH}_2 & - & \text{CH}_3 \\ & &   & & & & & & \\ & & \text{CH}_3 & & & & & & \end{array}$	2 - metil - 3 - pentanona
135	$\text{CH}_3 - \text{CO} - \text{CHOH} - \text{CH}_2\text{OH}$	3, 4 - dihidroxibutanona
136	$\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CHO}$	3 - octen - 6 - in - al
137	$\text{CH}_2\text{OH} - \text{CHOH} - \text{CHO}$	2, 3 - dihidroxipropanal
138		
139	$\begin{array}{ccccccc} & & & & \text{CH}_2 & = & \text{CH} & - & \text{CH} & = & \text{CH} & - & \text{CH} & - & \text{CHO} \\ & & & & & &   & &   & & & &   & & \\ & & & & & & \text{CH}_3 & & & & & & & & \end{array}$	2 - metil - 3,5 - hexadienal
140	$\begin{array}{ccccccc} & & & & \text{CH}_3 & & & & & & & & & & \\ & & & &   & & & & & & & & & & \\ \text{CHO} & - & \text{C} \equiv & \text{C} & - & \text{C} & - & \text{CH}_2 & - & \text{CHO} \\ & & & &   & & & & & & & & & & \\ & & & & \text{CH}_3 & & & & & & & & & & \end{array}$	3, 3 - dimetil - 4 - hexinodial
141	$\text{CHO} - \text{C} \equiv \text{C} - \text{CO} - \text{CHO}$	2 - oxo - 3 - pentinodial
142	$\text{CH} \equiv \text{C} - \text{CHO}$	Propinal
143	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{CH}_2\text{OH}$	1 - hidroxibutanona

	FÓRMULA	NOMBRE
<b>ÁCIDOS CARBOXÍLICOS</b>		
144	$\text{CH}_3 - \text{CH}_2 - \text{CH} = \text{CH} - \text{CO} - \text{C}(\text{NH}_2)_2 - \text{COOH}$	Ácido - 2, 2 - diamino - 3 - oxo - 2 - heptenoico
145	$\text{CH}_2 = \text{CH} - \text{CH} - \text{COOH}$ 	Ácido 2 - fenil - 3 - butenoico
146	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CO} - \text{COOH}$	Ácido 2 - oxopentanoico
147	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{CO} - \text{COOH}$	Ácido 2, 4 - dioxohexanoico
148	$\text{COOH} - \text{CO} - \text{CH}_2 - \text{CO} - \text{CH}_2 - \text{CO} - \text{COOH}$	Ácido 2, 4, 6 - trioxoheptanodioico
149	$\text{CH}_3 - \text{CH} = \text{CH} - \text{C} \equiv \text{C} - \text{COOH}$	Ácido 4 - hexen - 2 - in - oico
150	$\text{COOH} - \text{CO} - \text{CH}_2 - \text{CH}_2 - \text{CO} - \text{COOH}$	Ácido 2, 5 - dioxohexanodioico
151	$\text{CH}_3 - \text{CH}_2 - \text{CHOH} - \text{COOH}$	Ácido 2 - hidroxibutanoico
152	$\text{COOH} - \text{CHOH} - \text{CHOH} - \text{COOH}$	Ácido 2, 3 dihidroxibutanodioico
153	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH} - \text{COOH}$ $\quad \quad \quad  $ $\quad \quad \quad \text{NH}_2$	Ácido 2 - aminopentanoico
154	$\text{CH}_3 - \text{CH}_2 - \text{CH} - \text{CH}_2 - \text{COOH}$ $\quad \quad \quad  $ $\quad \quad \quad \text{CH}_3$	Ácido 3 - metilpentanoico
155	$\text{COOH} - \text{CH} - \text{CH} - \text{COOH}$ $\quad \quad   \quad  $ $\quad \quad \text{CH}_3 \quad \text{CH}_3$	Ácido 2, 3 - dimetilbutanodioico
156	$\text{CH}_3 - \text{CH} = \text{CH} - \text{CH} - \text{COOH}$ $\quad \quad \quad  $ $\quad \quad \quad \text{CH}_3$	Ácido 2 - metil - 3 - pentenoico
157		Ácido ortohidroxibenzoico (Ácido salicílico)
158	$\text{CH}_3 - \text{CH} - \text{CH} - \text{CH}_2 - \text{COOH}$ $\quad \quad   \quad  $ $\quad \quad \text{CH}_3 \quad \text{Br}$	Ácido 3 - bromo - 4 - metilpen- tanoico
159	$\text{HCOO} - \text{CH} = \text{CH} - \text{COOH}$	Ácido butenodioico
160	$\text{CH}_3 - \text{CH} = \text{CH} - \text{CO} - \text{CH} \text{OH} - \text{COOH}$	Ácido 2 - hidroxí - 3 - oxo - 4 - hexenoico

	FÓRMULA	NOMBRE
<b>ÁCIDOS CARBOXÍLICOS</b>		
161	$\begin{array}{ccccccc} \text{CH}_3 & - & \text{CH} & - & \text{C} \equiv \text{C} & - & \text{CH} & - & \text{CO} & - & \text{CH} & - & \text{COOH} \\ & &   & & & &   & & & &   & & \\ & & \text{CH}_3 & & & & \text{CHO} & & & & \text{Cl} & & \end{array}$	Ácido 2 - cloro - 4 - formil - 7 - metil - 3 - oxo - 5 - octinoico
162	$\begin{array}{ccccccccccc} & & & & & & \text{CH}_3 & & & & & & \\ & & & & & &   & & & & & & \\ \text{CH}_2 = & \text{CH} & - & \text{CH} & - & \text{CH} & - & \text{CO} & - & \text{C} & - & \text{CH} & - & \text{CO} & - & \text{CH} & - & \text{COOH} \\ & & &   & &   & &   & &   & &   & & & & & & \\ & & & \text{OH} & & \text{CH} & & \text{CH}_3 & & \text{CHO} & & \text{Cl} & & & & & & \\ & & & & & / \quad \backslash & & & & & & & & & & & & \\ & & & & & \text{CH}_3 \quad \text{CH}_3 & & & & & & & & & & & & \end{array}$	Ácido 2 - cloro - 4 - formil - 8 - hidroxil - 7 - isopropil - 5, 5 - dimetil - 3, 6 - dioxo - 9 - decenoico
163	$\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH} = \text{CH} - \text{COOH}$	Ácido 2 - hepten - 5 - in - oico
164	$\text{CH}_2 = \text{CH} - \text{C} \equiv \text{C} - \text{CH} - \text{COOH}$ <div style="text-align: center;">  </div>	Ácido 2 - fenil - 5 - hexen - 3 - in - oico
165	$\text{COOH} - \text{CH}_2 - \text{CH} = \text{CH} - \text{CH}_2 - \text{CH} = \text{CH} - \text{COOH}$	Ácido 2, 5 - octadienodioico

	FÓRMULA	NOMBRE
<b>ÉSTERES</b>		
166	$\text{CH}_3 - \text{COO} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Etanoato de butilo
167	$\text{H} - \text{COO} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Metanoato de propilo
168	$\text{CH}_3 - \text{CH}_2 - \text{COO} - \text{CH}_2 - \text{CH}_3$	Propanoato de etilo
169	$\text{CH}_3 - \text{COO} - \text{CH}_2 - \text{CH}_3$	Etanoato de etilo o Acetato de etilo
170	$\text{CH}_2 = \text{CH} - \text{COO} - \text{CH}_3$	Propenoato de metilo
171	$\text{H} - \text{COO} - \text{CH} \begin{matrix} \diagup \text{CH}_3 \\ \diagdown \text{CH}_3 \end{matrix}$	Formiato de isopropilo o Metanoato de isopropilo
172		Benzoato de metilo
173	$\text{CH}_3 - \text{COO} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	Etanoato de propilo
174	$\text{H} - \text{COO} - \text{CH}_3$	Metanoato de metilo
175	$\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{COO} - \text{CH} \begin{matrix} \diagup \text{CH}_3 \\ \diagdown \text{CH}_3 \end{matrix}$	3 - butenoato de isopropilo
176	$\text{CH}_2 = \underset{\text{CHO}}{\text{CH}} - \underset{\text{OH}}{\text{CH}} - \text{C} \equiv \text{C} - \underset{\text{NH}_2}{\text{CH}} - \underset{\text{CH}_3}{\text{CH}} - \text{COO} - \text{CH} = \text{CH}_2$	3 - amino - 7 - formil - 6 - hidroxil - 2 - metil - 7 - octen - 4 - in - oato de vinilo

	FÓRMULA	NOMBRE
<b>AMINAS</b>		
177	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{CH}_3$	Metilpropilamina
178	$\begin{array}{c} \text{CH}_3 - \text{N} - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_2 \\   \\ \text{CH}_3 \end{array}$	Dietilmetilamina
179	$\text{CH}_3 - \text{O} - \text{N} \begin{array}{l} \nearrow \text{CH}_2 - \text{CH}_3 \\ \searrow \text{CH}_2 - \text{CH}_3 \end{array}$	Dietilmetoxiamina
180	$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \searrow \\ \text{CH}_3 \end{array} \text{N}$	Trimetilamina
181	$\begin{array}{c} \text{CH}_2 - \text{CH}_2 \\   \quad   \\ \text{CH}_2 - \text{CH} - \text{NH}_2 \end{array}$	Ciclobutilamina
182	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{NH}_2$	Propilamina
183	$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH} - \text{NH}_2 \\   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	1, 2 - dimetilpropilamina
184	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{N} - \text{CH}_2 - \text{CH}_3$ $\quad \quad \quad  $ $\quad \quad \quad \text{CH}_3$	Etilmetilbutilamina
185		Trifenilamina
186	$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \searrow \\ \text{CH} - \text{NH}_2 \end{array}$	Isopropilamina
187	$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \searrow \\ \text{CH} - \text{NH} - \text{CH}_3 \end{array}$	Metilisopropilamina

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	FÓRMULA	NOMBRE
	<b>AMINAS</b>	
188	$\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH} - \text{N} \\ \diagup \\ \text{CH}_3 \end{array} \begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}_2 - \text{CH}_3 \\ \diagup \end{array}$	Etilisopropilmetilamina

	FÓRMULA	NOMBRE
<b>AMIDAS</b>		
189	$\text{NH}_2 - \text{CO} - \text{CH}_2 - \text{CH}_2 - \text{CO} - \text{NH}_2$	Butanodiamida
190	$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CONH}_2 \\   \\ \text{CH}_3 \end{array}$	Metilpropanoamida (no es necesario matizar el 2, xq es el único C que puede estar)
191	$\text{CONH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CONH}_2$	Pentanodiamida
192	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH} - \text{CONH}_2 \\   \\ \text{CH}_3 \end{array}$	2 - metilbutanamida
193	$\begin{array}{c} \text{H} - \text{CO} - \text{N} - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	N, N - dimetilformamida o N, N - dimetilmetanamida
194	$\begin{array}{c} \text{CH}_3 - \text{CO} - \text{N} - \text{CO} - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	N - metildiacetamida o N - metildietanamida
195	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{NH} - \text{CH}_2 - \text{CH}_3$	N - etilpropanamida
196	$\begin{array}{c} \text{C}_6\text{H}_5 - \text{CO} - \text{N} - \text{CH}_2 - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	N, N - etilmetilbenzamida
197	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CONH}_2$	Pentamida
198	$\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CO} - \text{N} - \text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	N, N - dimetilpropanamida
199	$\text{CH}_3 - \text{CO} - \text{CH}_2 - \text{CH} = \text{CH} - \text{CON} \begin{cases} \text{CH}_3 \\ \text{CH} = \text{CH}_2 \end{cases}$	N, N - metilvinil - 5 - oxo - 2 - hexenamida
200	$\text{CH}_3 - \text{CH}_2 - \text{CONH}_2$	Propanamida
201	$\text{CH}_3 - \text{CH}_2 - \text{CO} - \text{NH} - \text{CH}_3$	N - metilpropanamida
202	$\text{CH}_2 = \text{CH} - \text{CONH}_2$	Propenamida