

Clase de compuesto	Estructura general	Grupo funcional	Ejemplo	
alcanos		No hay	$\text{CH}_3\text{CH}_2\text{CH}_3$	propano
	$\begin{array}{c} \text{R} & & \text{R} \\ & \diagdown & / \\ & \text{C}=\text{C} \\ & / & \diagdown \\ \text{R} & & \text{R} \end{array}$		$\text{CH}_2=\text{CH}_2$	eteno o etileno
alquinos		$-\text{C}\equiv\text{C}-$		propino
derivados halogenados	$\text{R}-\text{X}$ (X: F, Cl, Br, I)		CH_3Cl	clorometano
hidrocarburos aromáticos				
	$\text{R}-\text{OH}$		$\text{CH}_3\text{CH}_2\text{OH}$	etanol
éteres			$\text{CH}_3\text{CH}_2-\text{O}-\text{CH}_3$	etil metil éter
	$\begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{H} \end{array}$	$\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{H} \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{C}-\text{H} \end{array}$	
cetonas	$\begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{R}' \end{array}$		$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{C}-\text{CH}_3 \end{array}$	propanona o acetona
	$\begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{OH} \end{array}$	$\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{OH} \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{CH}_2\text{C}-\text{OH} \end{array}$	ácido propanoico
ésteres			$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{C}-\text{OCH}_3 \end{array}$	acetato de metilo
	$\begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{NH}_2 \end{array}$	$\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{NH}_2 \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{C}-\text{NH}_2 \end{array}$	
nitrilos	$\text{R}-\text{C}\equiv\text{N}$			etanonitrilo
aminas	$\begin{array}{c} \text{R}-\text{N}-\text{R}' \\ \\ \text{R}'' \end{array}$		$\begin{array}{c} \text{CH}_3-\text{N}-\text{CH}_3 \\ \\ \text{CH}_3 \end{array}$	