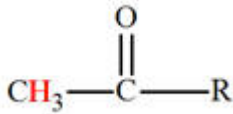
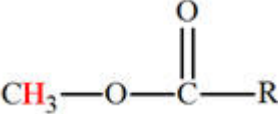
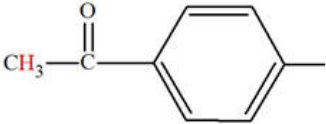
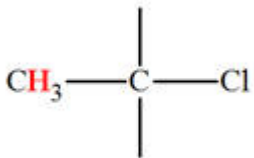
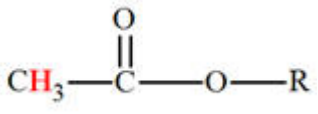
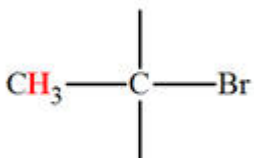
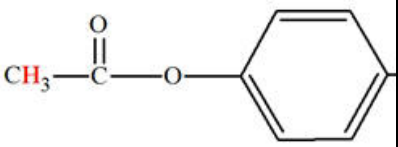
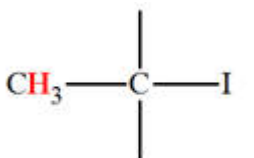
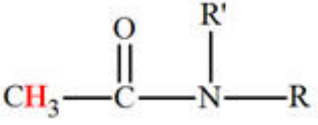
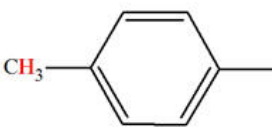
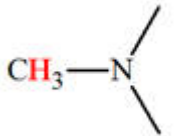
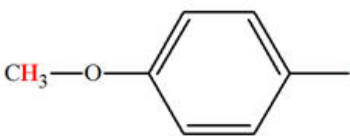
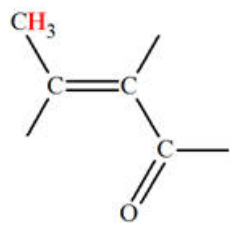
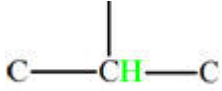
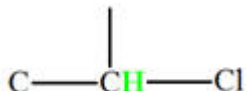
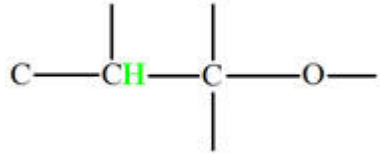
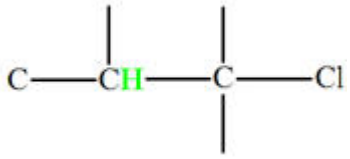
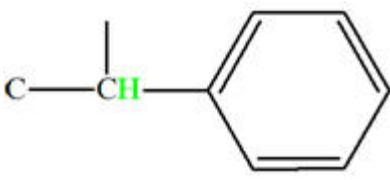
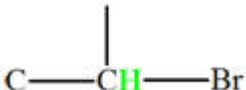
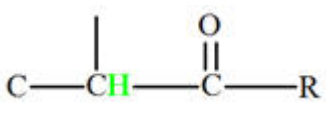
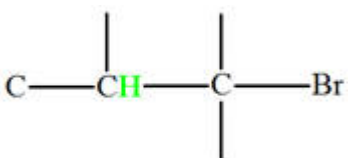
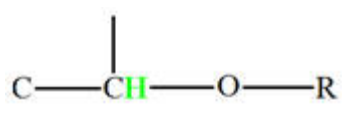
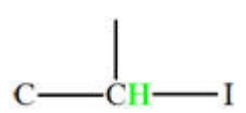
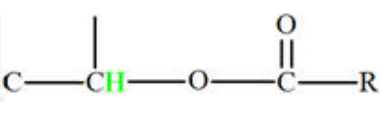
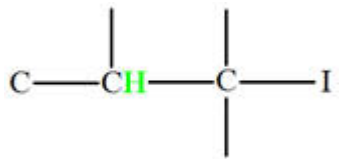
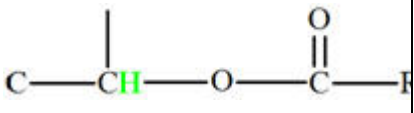
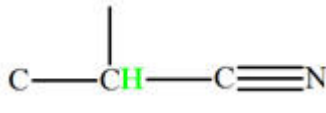
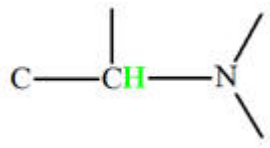
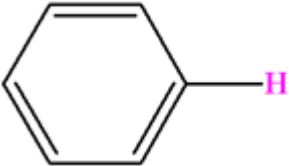
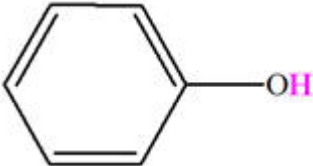
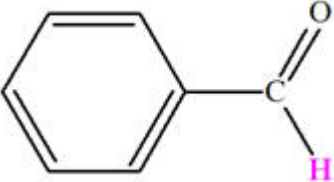


## Les déplacements chimiques

Proton	$\delta$ (ppm)	Proton	$\delta$ (ppm)
<b>CH<sub>3</sub> - C</b>	<b>0,9</b>	<b>CH<sub>3</sub> - OH</b>	<b>3,4</b>
<b>CH<sub>3</sub> - C - O</b>	<b>1,4</b>	<b>CH<sub>3</sub> - Br</b>	<b>2,7</b>
<b>CH<sub>3</sub> - C = C</b>	<b>1,6</b>	<b>CH<sub>3</sub> - I</b>	<b>2,2</b>
<b>CH<sub>3</sub> - O - R</b>	<b>3,3</b>	<b>CH<sub>3</sub> - Cl</b>	<b>3,0</b>
	<b>2,2</b>		<b>3,7</b>
	<b>2,6</b>		<b>1,5</b>
	<b>2,0</b>		<b>1,7</b>
	<b>2,4</b>		<b>1,9</b>
	<b>2,0</b>		<b>2,3</b>
	<b>2,3</b>		<b>3,8</b>
<b>CH<sub>3</sub> - C≡N</b>	<b>2,0</b>		<b>2,0</b>

Proton	$\delta$ (ppm)	Proton	$\delta$ (ppm)
$C - CH_2 - C$	1,3	$C - CH_2 - N$	2,5
$C - CH_2 - C_{\text{cycle}}$	1,5	$C - CH_2 - Cl$	3,4
$C - CH_2 - C - O$	1,9	$C - CH_2 - C - Cl$	1,7
$C - CH_2 - C = C$	2,3	$C - CH_2 - Br$	3,3
$C - CH_2 - O - R$	3,4	$C - CH_2 - C - Br$	1,7
$C - CH_2 - O - H$	3,6	$C - CH_2 - I$	3,1
$C - CH_2 - C - C = C$	1,5	$C - CH_2 - C - I$	1,8
$C - CH_2 - C(=O) - R$	2,4	$C - CH_2 - \text{C}_6\text{H}_5$	2,7
$C - CH_2 - C(=O) - O - R$	2,2	$C - CH_2 - C \equiv N$	2,3
$C - CH_2 - O - \text{C}_6\text{H}_5$	4,3	$C - CH_2 - C(=C)(R) - C(=O) - R$	2,4
$C - CH_2 - O - C(=O) - R$	4,1	$C(=O) - CH_2 - \text{C}_6\text{H}_5$	3,8

Proton	$\delta$ (ppm)	Proton	$\delta$ (ppm)
	1,5		4,0
	2,0		1,6
	3,0		3,6
	2,7		1,7
	3,7		4,2
	3,9		1,9
	4,8		2,7
	2,8		

Proton	$\delta$ (ppm)	Proton	$\delta$ (ppm)
$\text{C}-\text{CH}=\text{CH}_2$	5,3	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OH} \end{array}$	8,5 - 13
$\text{C}-\text{CH}=\text{CH}-$	5,1	$\begin{array}{c} \diagup \quad \diagdown \\ \text{C}=\text{C} \\ \diagdown \quad \diagup \\ \text{OH} \end{array}$	11 - 17
$\text{C}_6\text{H}_6$	7,2	$\text{R}-\text{OH}$	0,5 - 5,5
	7,0 - 9,0		4,5 - 7,1
$\text{R}-\text{C}\equiv\text{C}-\text{H}$	3,1	$\text{R}-\text{NH}-$	0,6 - 5
$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{H} \end{array}$	9,9	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{NH}- \end{array}$	5 - 8,5
	9,9	$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}-\text{C}-\text{O}- \end{array}$	8,0
$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}-\text{C}-\text{N} \\ \diagup \quad \diagdown \end{array}$	8,0		