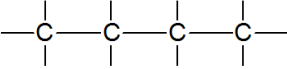
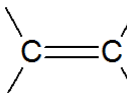
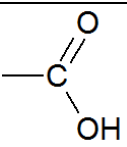
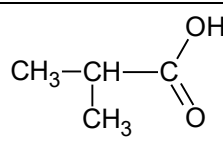
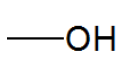
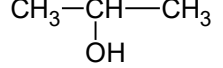
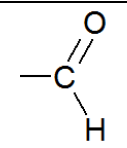
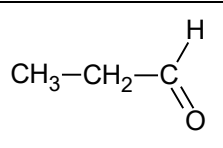
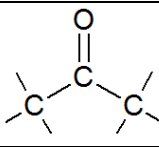
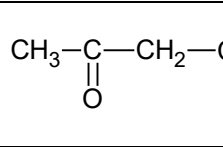
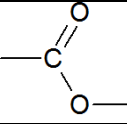
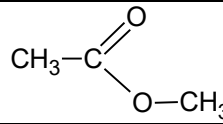
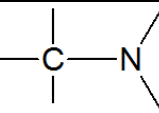


## Fiche 1 :

## Les familles organiques

## A : Les groupes caractéristiques

Familles organiques	Groupe caractéristique	Exemple
Les alcanes		$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$
Les alcènes		$\text{CH}_3\text{-CH=CH-CH}_3$
Les acides carboxyliques		
Les alcools		
Les aldéhydes		
Les cétones		
Les esters		
Les amines		$\text{CH}_3\text{-CH}_2\text{-NH}_2$

## B : Nomenclature

**(1)** On repère le groupe caractéristique de la molécule qui informe sur sa famille et sur la terminaison du nom :

Famille des alcanes : ... **ane**

Famille des alcènes : ... **ène**

Famille des alcools : ... **ol**

Famille des acides carboxyliques : **acide ... oïque**

Famille des aldéhydes : ... **al**

Familles des cétones : ... **one**

Famille des esters : ... **oate de ... yle**

**(2)** On cherche la chaîne carbonée la plus longue comportant le carbone fonctionnel (*carbone portant la fonction organique*)

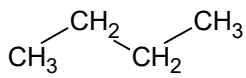
Suivant le nombre de carbone de la chaîne, on a le nom de la chaîne principale

1 C	2 C	3 C	4 C	5 C	6 C
meth	eth	prop	but	pent	hex

**(3)** On repère la ramification « méthyl »  $\text{-CH}_3$

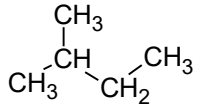
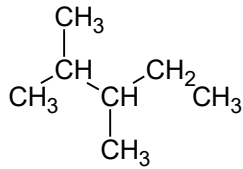
**(4)** On numérote la chaîne afin que la fonction ait le plus petit chiffre possible

► ► Les alcanes



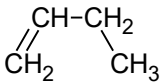
butane

2,3-diméthylpentane



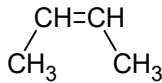
2-méthylbutane

► ► Les alcènes

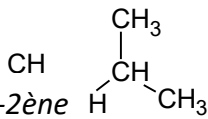


but-1-ène

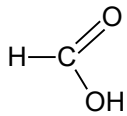
but-2-ène



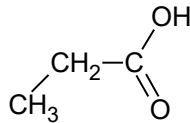
4-méthylpent-2ène



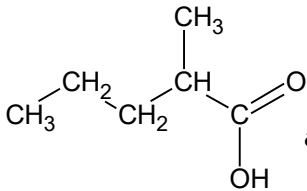
► ► Les acides carboxyliques



acide méthanoïque

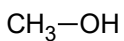


acide propanoïque

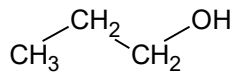


acide 2-méthylpentanoïque

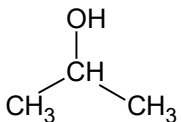
► ► Les alcools



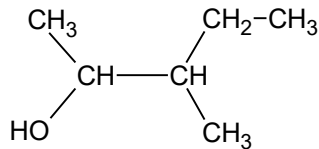
méthanol



propan-1-ol

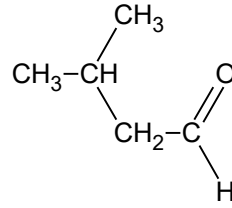


propan-2-ol

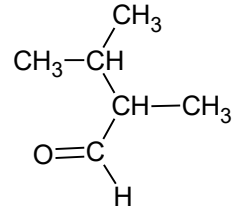


3-méthylpentan-2-ol

► ► Les aldéhydes

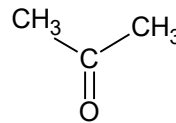


3-méthylbutanal

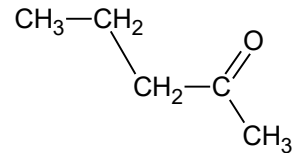


2,3-diméthylbutanal

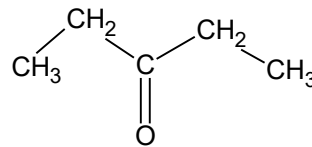
► ► Les cétones



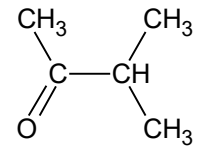
propanone



pentan-2-one

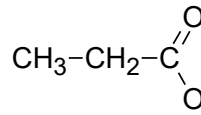


pentan-3-one

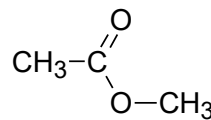


3-méthylbutan-2-one

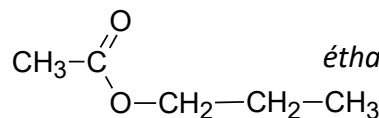
► ► Les esters



propanoate de méthyle



éthanoate de méthyle



éthanoate de propyle