

Université de Jijel

Département de génie des procédés

2^{ème} année licence GP

TD N° 1 : Nomenclature en chimie organique

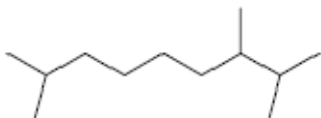
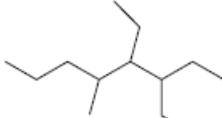
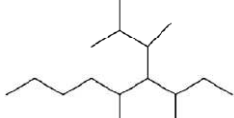
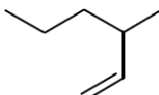
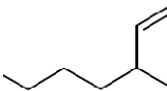
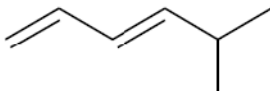
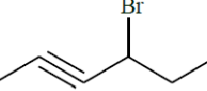
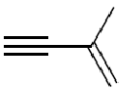
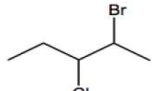
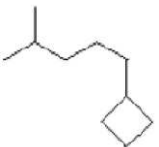
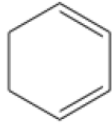
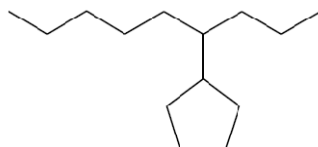
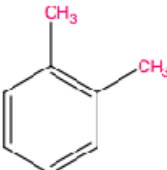
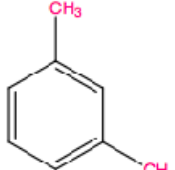
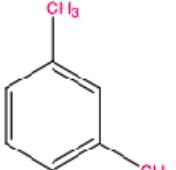
La nomenclature permet de :

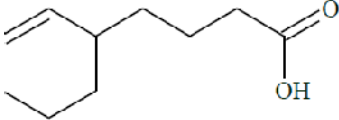
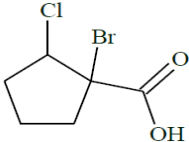
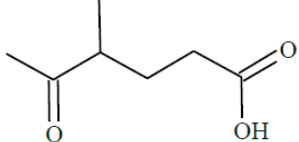
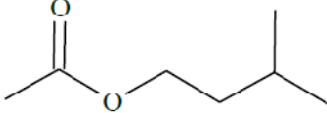
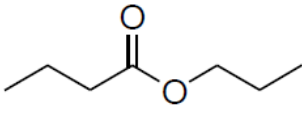
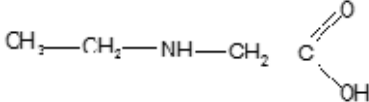
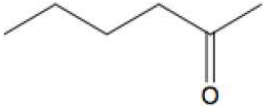
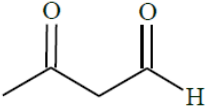
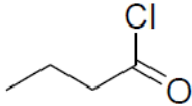
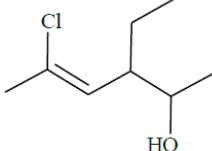
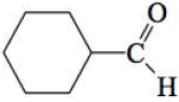
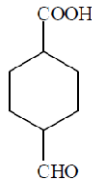
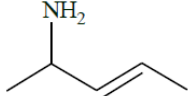
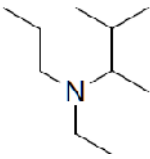
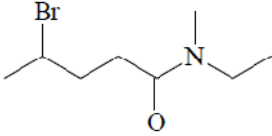
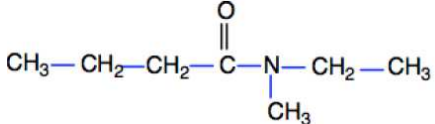
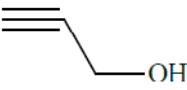
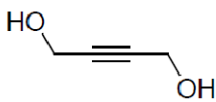
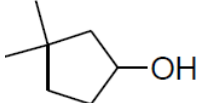
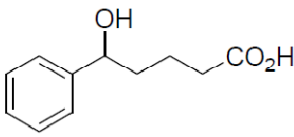
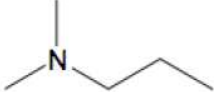
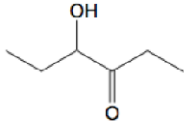
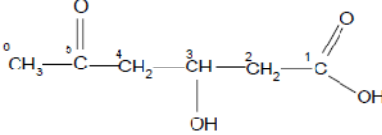
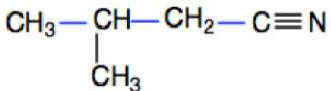
a) Trouver le nom d'une molécule connaissant la structure.

b) Trouver la structure d'une molécule connaissant le nom.

Exercice 01

Nommer les molécules suivantes selon le système de nomenclature IUPAC :

$ \begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\ \quad \quad \\ \text{CH}_3\text{CHCHCHCH} \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array} $ 	$ \begin{array}{c} \text{CH}_3\text{CH}_2\text{CHCH}_3 \\ \\ \text{CH} \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array} $ 	$ \begin{array}{c} \text{CH}_3 \\ \\ \text{CH}-\text{CH}_2\text{CH}_3 \\ \\ \text{CH}_3\text{CHCH}_2\text{CH}_2\text{CCH}_2\text{CH}_2\text{CH}_2\text{CH}_3 \\ \\ \text{CH} \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array} $
 	 	
 	 	
 	 	
 	 	
 	 	

Exercice 2 :

Convertir les noms suivants en formules moléculaires. (vérifier si le nom donné pour chaque molécule est en accord avec le système de nomenclature IUPAC)

Nom de la molécule	Formule
4-(2-Ethylbutyl)décane	
5-Méthylhex-3-én-1-ol	
4-Bromo-2-iodopent-2-ène	
1-Ethényl-4-nitrobenzène	
4-Bromo-3-méthylpent-3-èn-1-yne	
N,N-Diméthylbenzamide	
4,5-Dibromoaniline	
Benzoate de 2-chloroéthyle	
Acide 2-formylcyclohexanecarboxylique.	
Cyclopentanecarbonitrile	
2-Méthylhexanenitrile	