

CORRIGES DES EXERCICES (Initiation)

Exercice 1

- (1) 5.87 T
- (2) 62.86 MHz
- (3) 5.67 T

Exercice 2

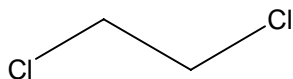
- (1)
- (2)

noyau	H	D	T
$M(\text{g}\cdot\text{mol}^{-1})$	1	2	3
$\gamma (10^7 \text{ rad}\cdot\text{s}^{-1}\cdot\text{T}^{-2})$	26.7519	4.1064	28.5336
I	$\frac{1}{2}$	1	$\frac{1}{2}$
ν (MHz)	90	13.81	95.99

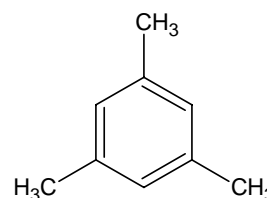
- (3) 5.22 ppm
- (4) 5.22 ppm 72 Hz
- (5) 5.22 ppm 501 Hz

Exercice 3

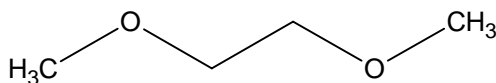
(a)



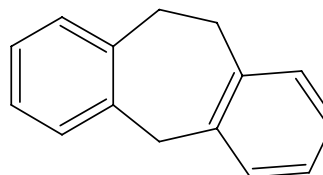
(b)



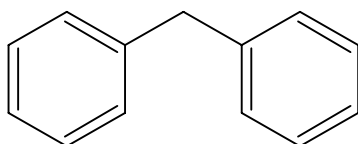
(c)



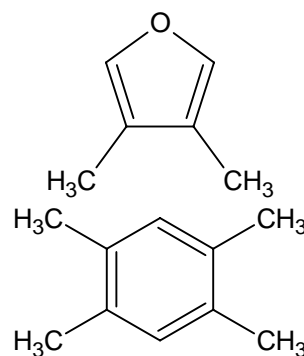
(d)



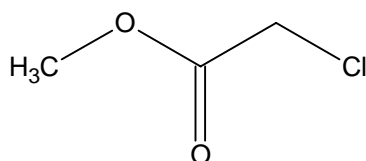
(e)



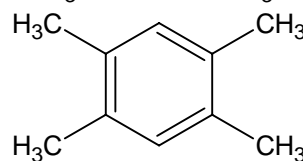
(f)



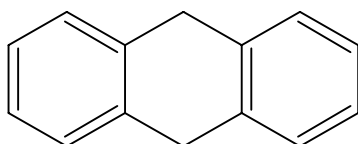
(g)



(h)



(i)



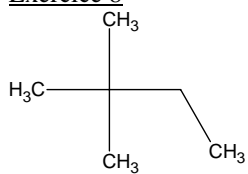
Exercice 5

$$J_{ab} < J_{ac}$$

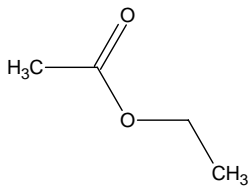
Exercice 6

$$J_{ab} = 5\text{Hz et } J_{ac} = 16.7\text{Hz}$$

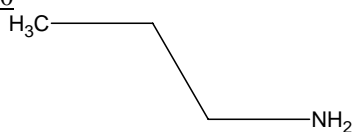
Exercise 8



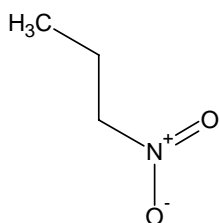
Exercise 9



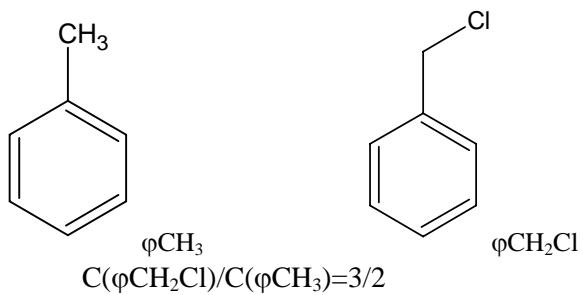
Exercise 10



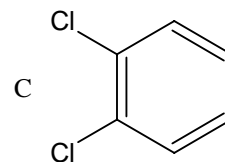
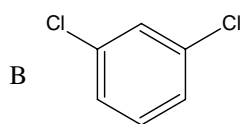
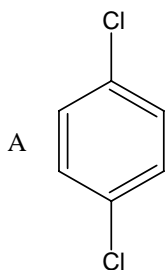
Exercise 11



Exercise 12

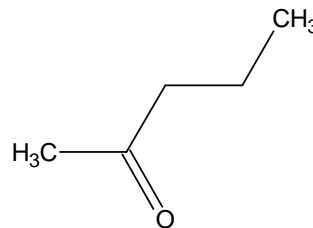


Exercise 16

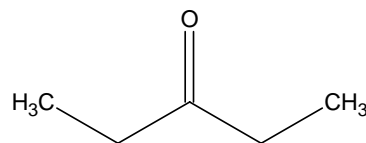


Exercise 13

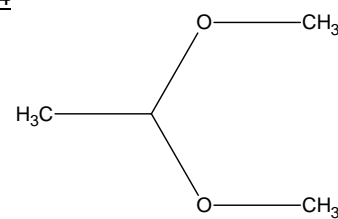
1)



2)



Exercise 14



Exercise 15

