CORRIGES DES EXERCICES (Initiation)

Exercice 1

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

Exercice 2

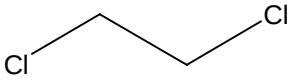
(1)
(2)

noyau	H	D	T
M(g.mol^{-1})	1	2	3
γ (10^7 rad.s^{-1}.T^{-2})	26.7519	4.1064	28.5336
I	½	1	½
ν (MHz)	90	13.81	95.99

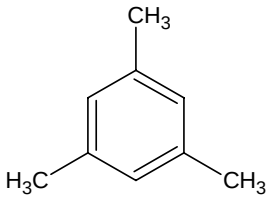
(3) 5.22 ppm
(4) 5.22 ppm 72 Hz
(5) 5.22 ppm 501 Hz

Exercice 3

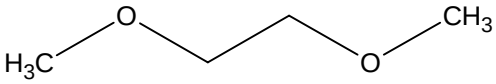
(a)



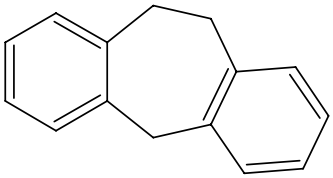
(b)



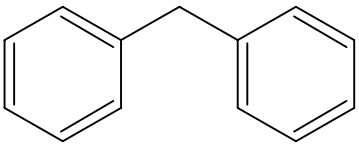
(c)



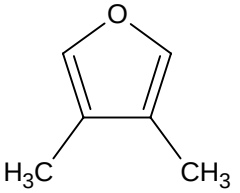
(d)



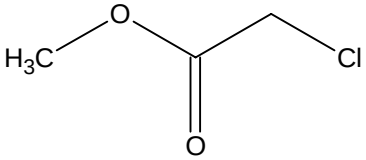
(e)



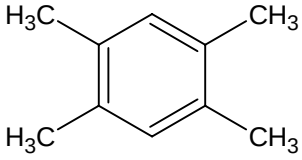
(f)



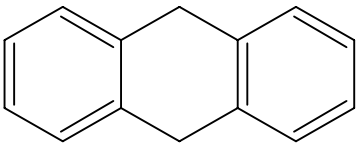
(g)



(h)



(i)



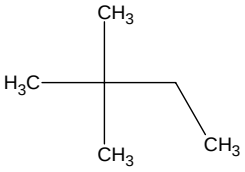
Exercice 5

$J_{ab} < J_{ac}$

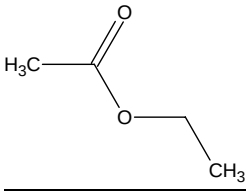
Exercice 6

J_{ab} = 5Hz et J_{ac} = 16.7Hz

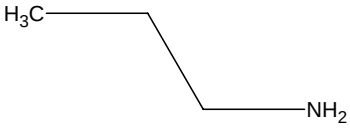
Exercice 8



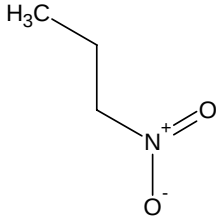
Exercice 9



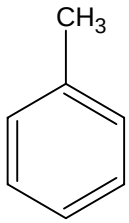
Exercice 10



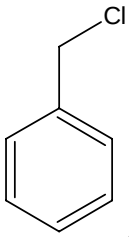
Exercice 11



Exercice 12



φCH$_3$

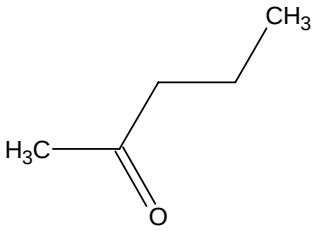


φCH$_2$Cl

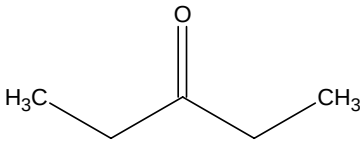
C(φCH$_2$Cl)/C(φCH$_3$)=3/2

Exercice 13

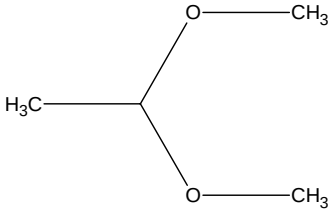
1)



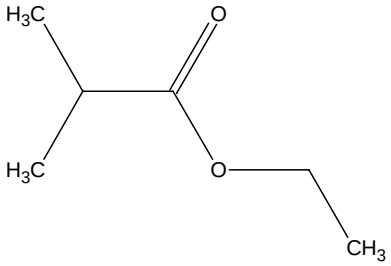
2)



Exercice 14

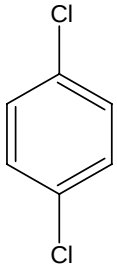


Exercice 15

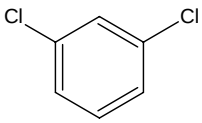


Exercice 16

A



B



C