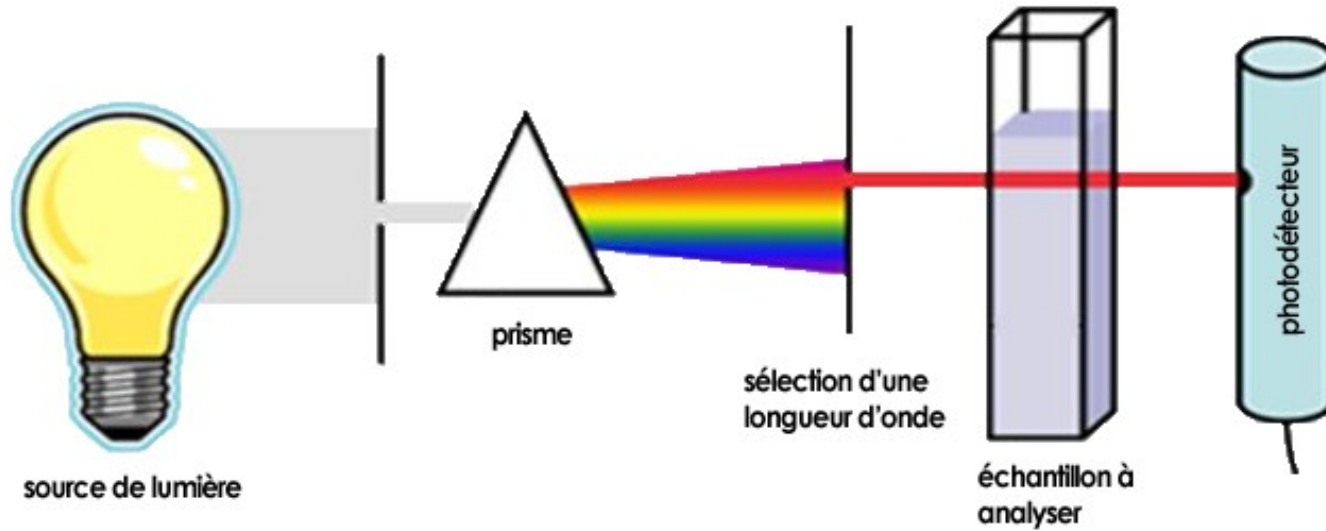


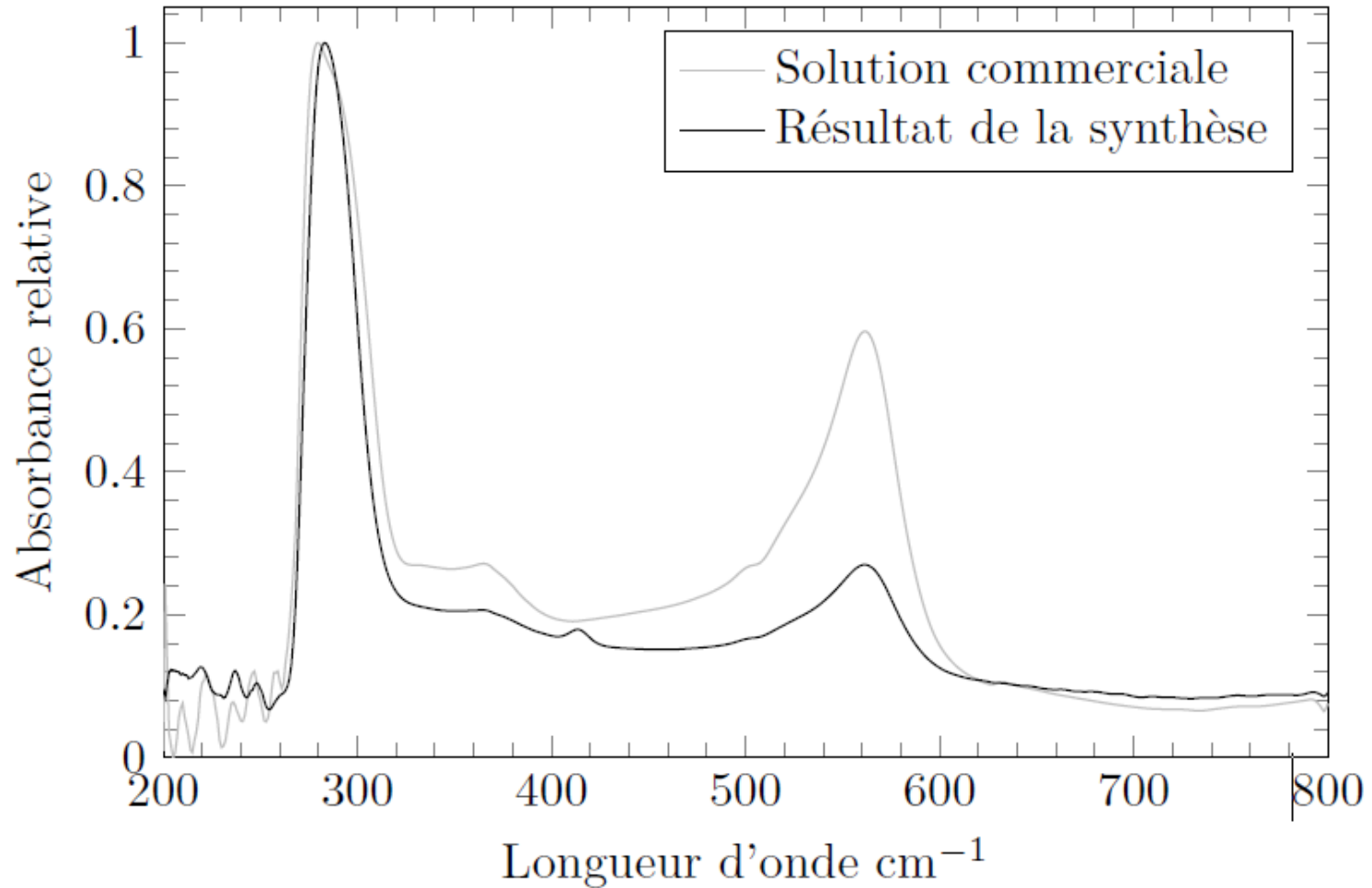
## Fonctionnement d'un spectrophotomètre



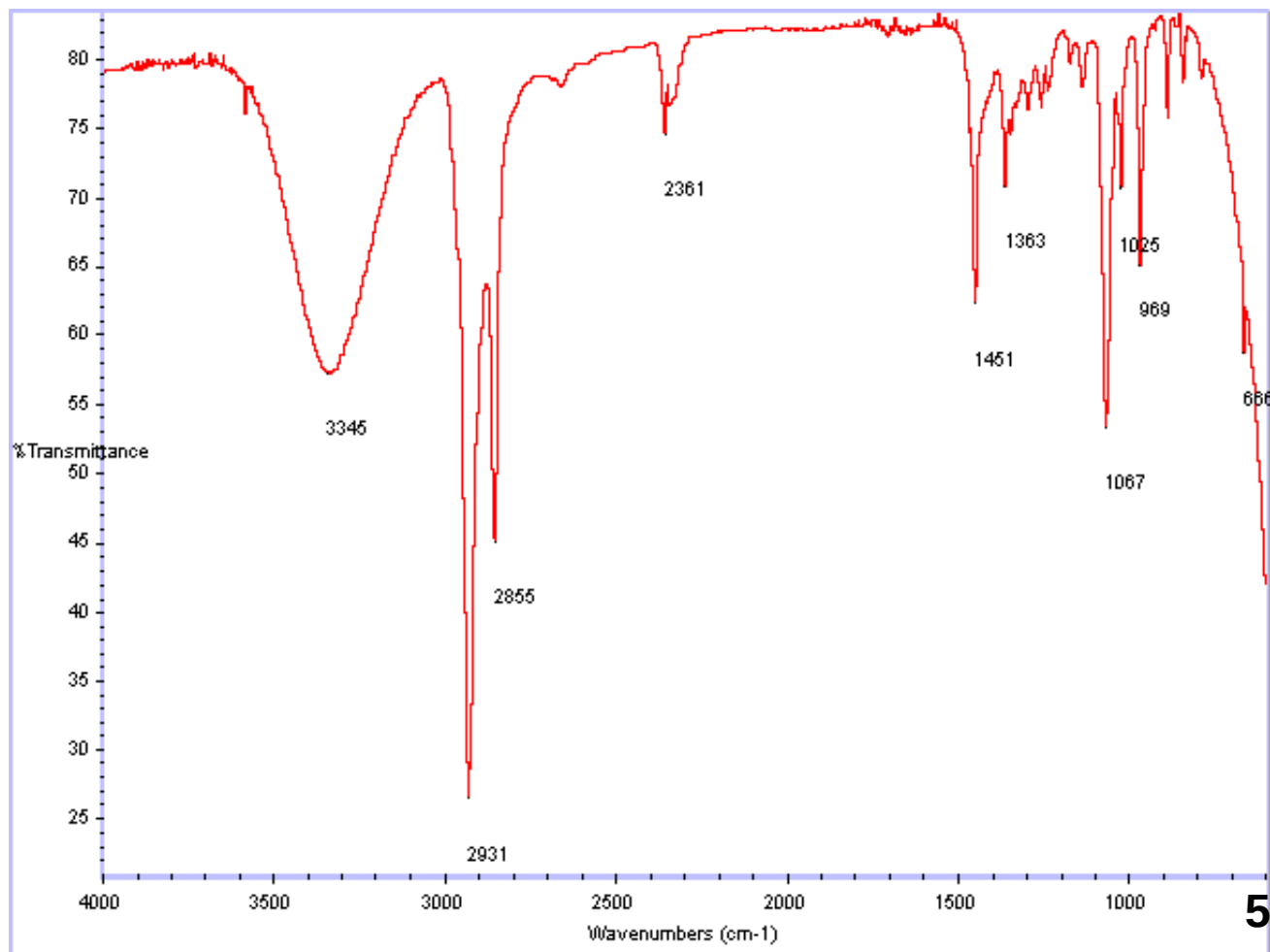
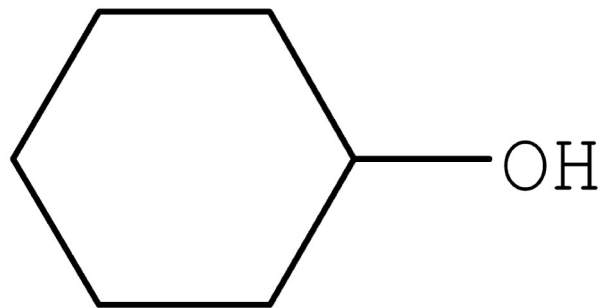
# Cercle chromatique



## Spectre UV-visible de la phénolphtaléine



# Cyclohexanol



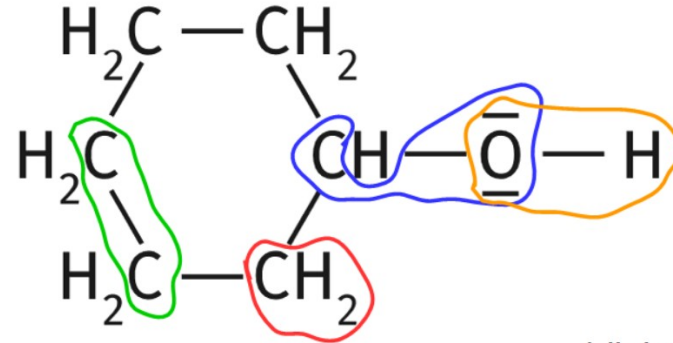
# Table des bandes des spectres IR

Liaison	Nombre d'onde $\sigma$ (cm <sup>-1</sup> )	Intensité <sup>(1)</sup>
O—H <sub>libre</sub> <sup>(2)</sup>	3580 - 3650	Forte ; fine
O—H <sub>lié</sub> <sup>(2)</sup>	3200 - 3400	Forte ; large
N—H	3100 - 3500	Moyenne
C <sub>tri</sub> —H <sup>(3)</sup>	3000 - 3100	Moyenne
C <sub>tri</sub> —H <sub>aromat.</sub> <sup>(4)</sup>	3030 - 3080	Moyenne
C <sub>tét</sub> —H <sup>(5)</sup>	2800 - 3000	Forte
C <sub>tét</sub> —H <sub>aldéhyde</sub>	2750 - 2900	Moyenne
O—H <sub>acide carb.</sub>	2500 - 3200	Forte ; large

Liaison	Nombre d'onde $\sigma$ (cm <sup>-1</sup> )	Intensité <sup>(1)</sup>
C=O <sub>ester</sub>	1700 - 1740	Forte
C=O <sub>aldéh. cétone</sub>	1650 - 1730	Forte
C=O <sub>acide</sub>	1680 - 1710	Forte
C=C	1625 - 1685	Moyenne
C=C <sub>aromat.</sub>	1450 - 1600	Moyenne
C <sub>tét</sub> —H	1415 - 1470	Forte
C <sub>tét</sub> —O	1050 - 1450	Forte
C <sub>tét</sub> —C <sub>tét</sub>	1000 - 1250	Forte

# Application au cyclohexanol

Liaison	Nombre d'onde $\sigma$ (cm <sup>-1</sup> )	Intensité <sup>(1)</sup>
O—H <sub>libre</sub> <sup>(2)</sup>	3580 - 3650	Forte ; fine
O—H <sub>lié</sub> <sup>(2)</sup>	3200 - 3400	Forte ; large
N—H	3100 - 3500	Moyenne
C <sub>tri</sub> —H <sup>(3)</sup>	3000 - 3100	Moyenne
C <sub>tri</sub> —H <sub>aromat</sub> <sup>(3)</sup>	3030 - 3080	Moyenne
C <sub>tét</sub> —H <sup>(5)</sup>	2800 - 3000	Forte
C <sub>tét</sub> —H <sub>aliphat</sub>	2750 - 2900	Moyenne
O—H <sub>aliphat</sub>	2500 - 3200	Forte ; large

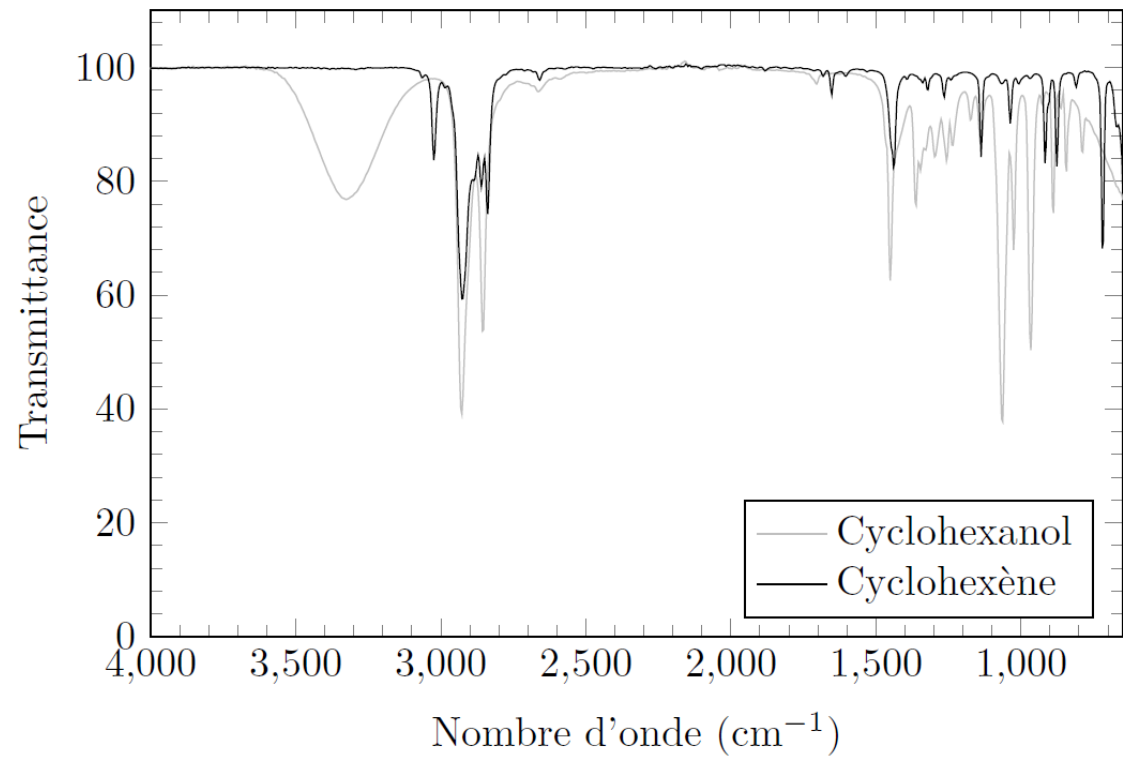
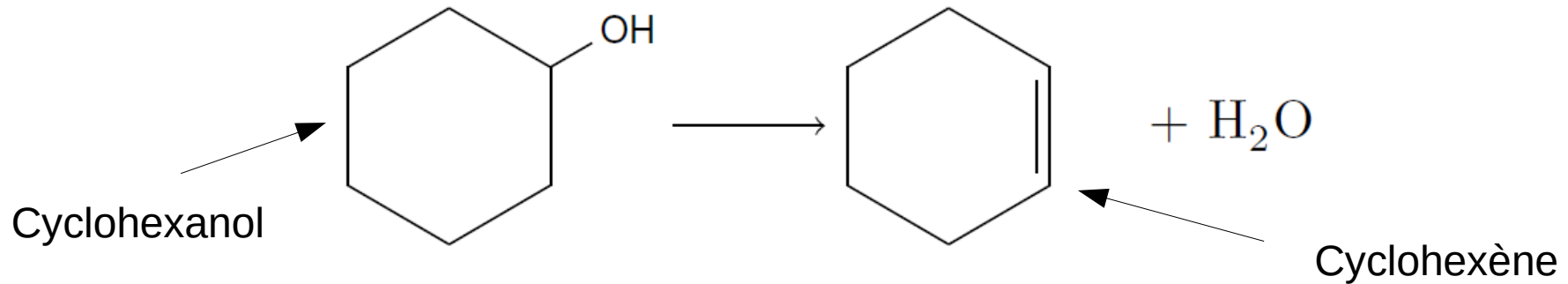


Cyclohexanol

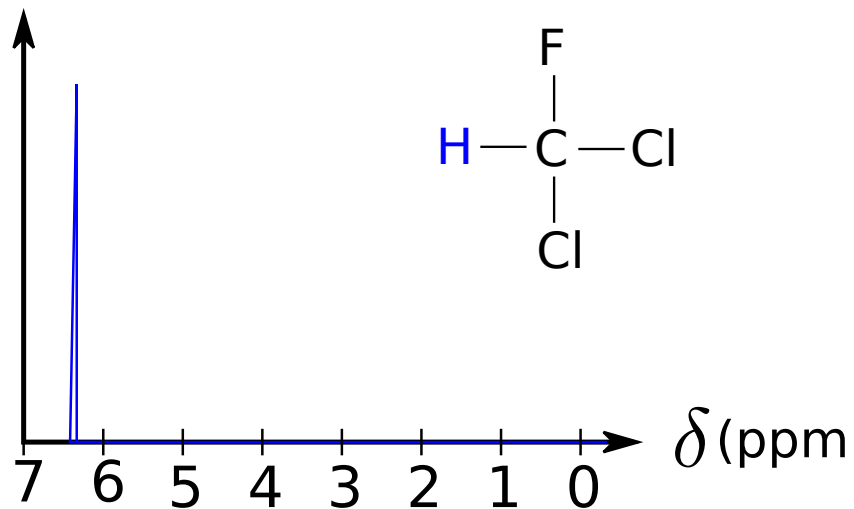
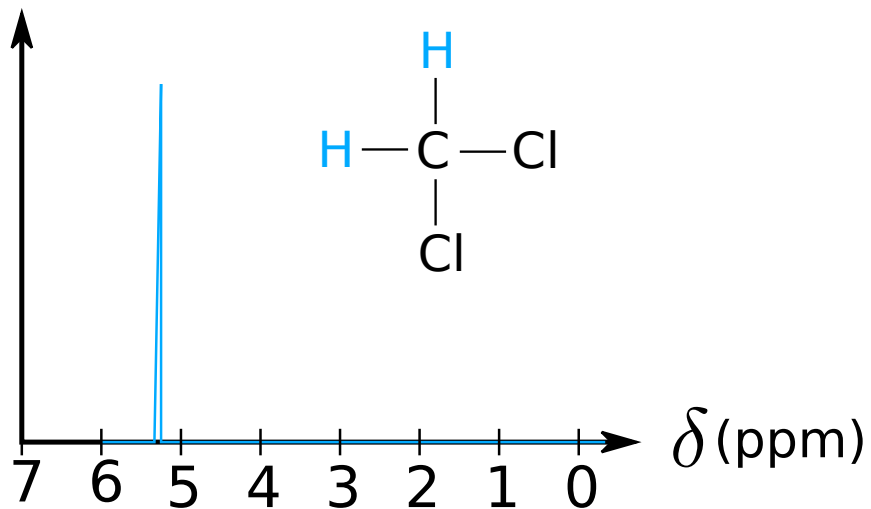
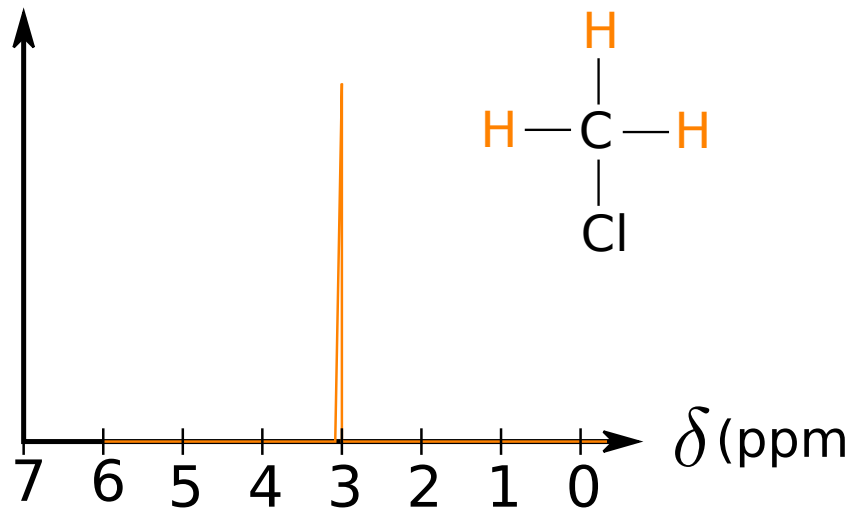
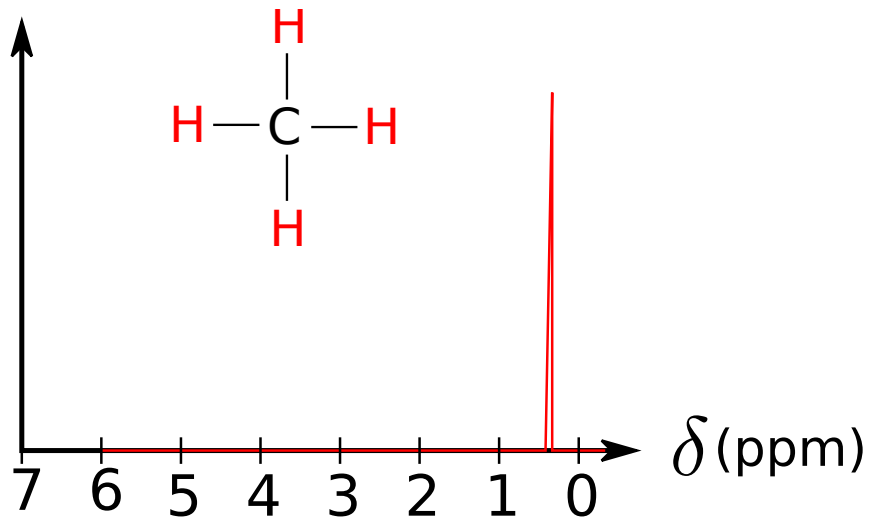
4 liaisons différentes :

- C-C ———
- C-H ———
- C-O ———
- O-H ———

C <sub>tét</sub> —O	1050 - 1450	Forte
C <sub>tét</sub> —C <sub>tét</sub>	1000 - 1250	Forte







# Spectre RMN de l'éthanol

