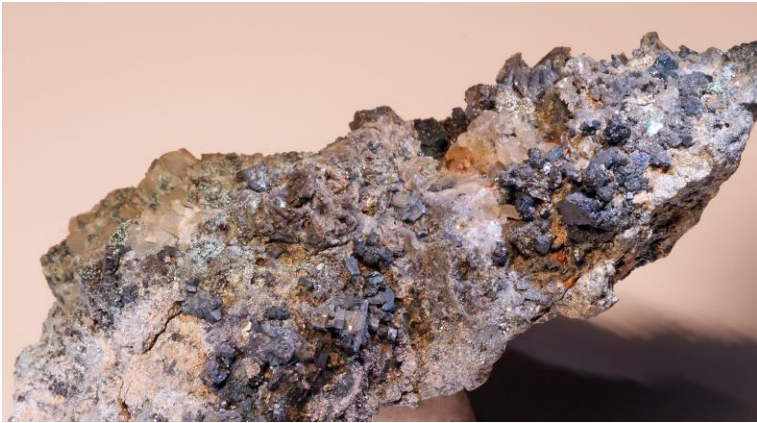


LC04

Synthèses inorganiques

Minerais de cuivre



Chalcocite Cu_2S

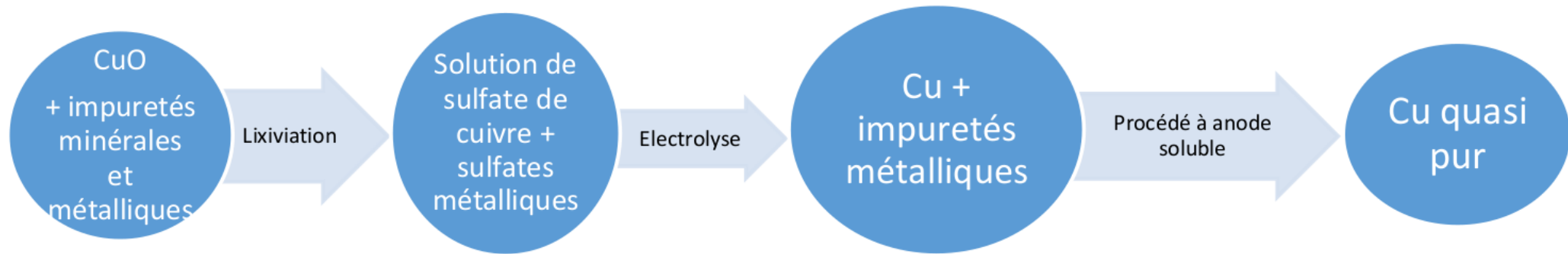


Covellite CuS

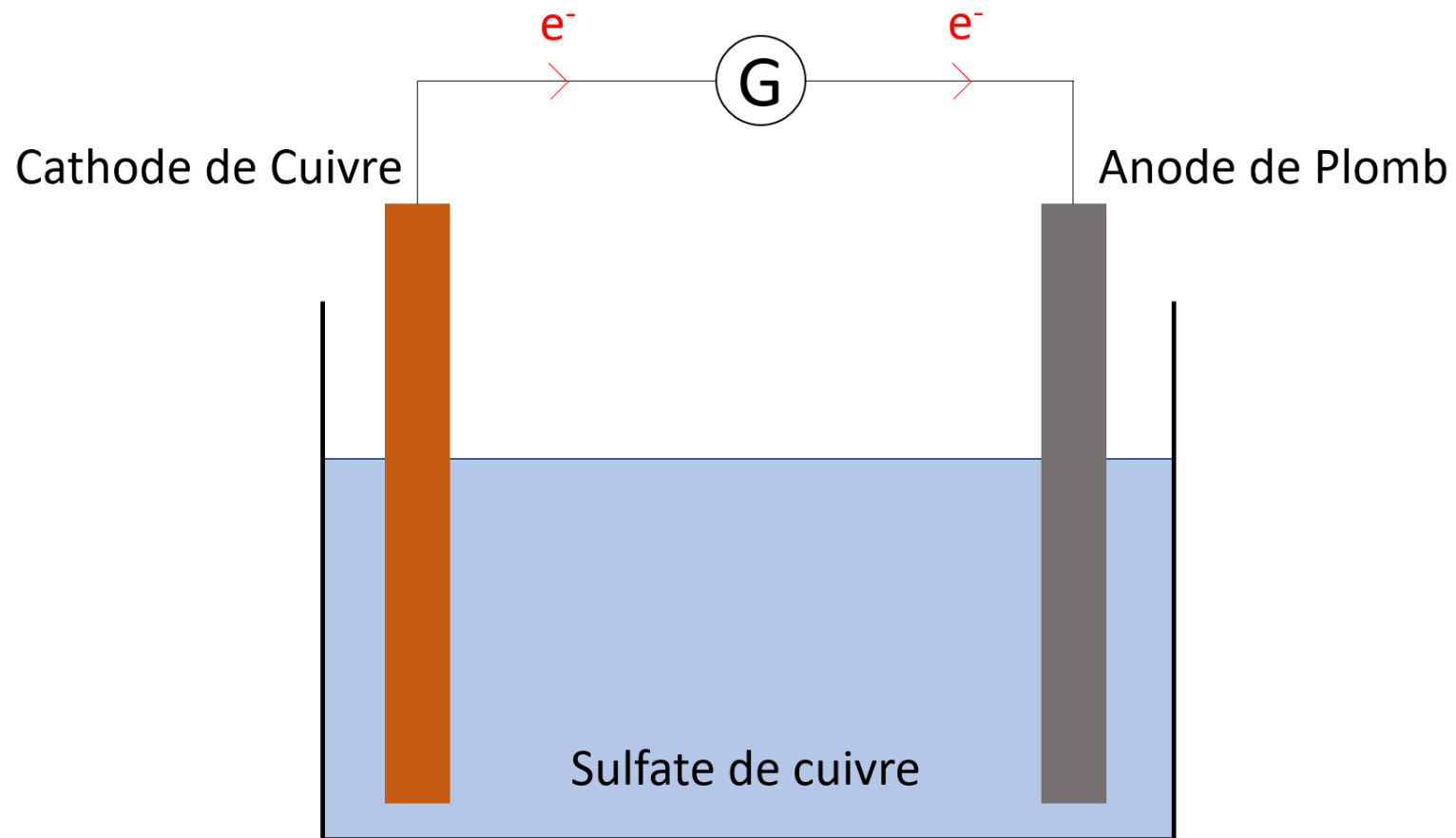


Chalcopyrite CuFeS_2

Étapes de la synthèse du cuivre



Electrolyse du cuivre



Rendement faradique

$$R_F = \frac{m_{reel}}{m_{th}}$$

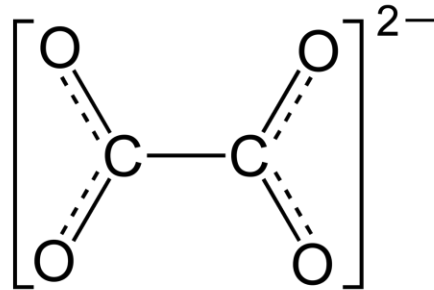
$$m_{th} = \frac{M(\text{Cu})It}{n\mathcal{F}}$$

$$\mathcal{F} = 96485 \text{C mol}^{-1}$$

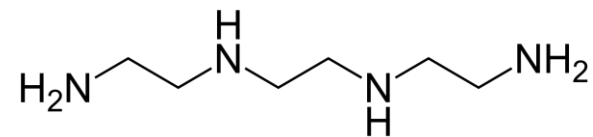
Denticité des ligands

- HO^- : monodentate

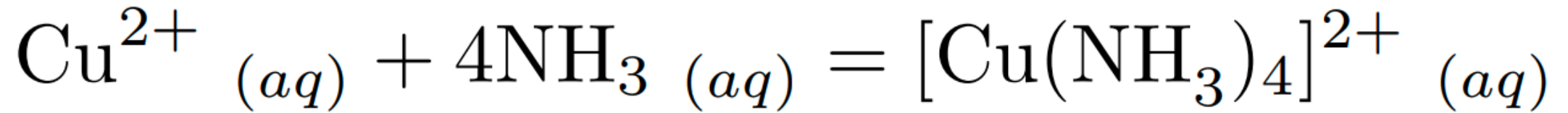
- oxalate : bidentate



- triéthylènetétraamine : tétradentate

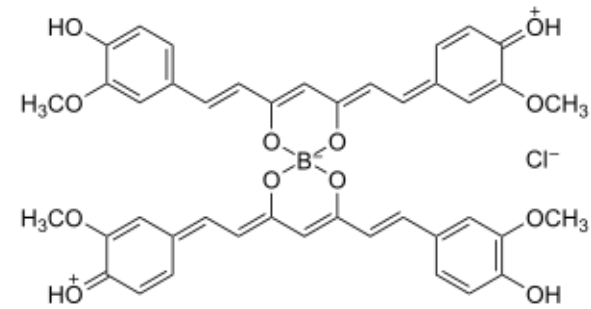


Synthèse du tétraamminecuivre (II)

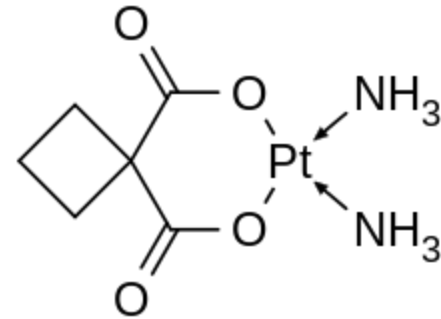


Application des complexes

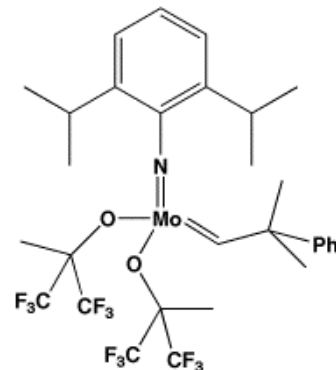
- Indicateur coloré : la rosocyanine



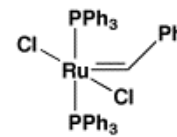
- Médicaments : le carboplatine



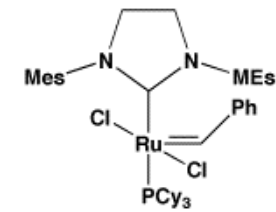
- Catalyseurs :



Schrock's catalyst



Grubbs 1st generation catalyst



Grubbs 2nd generation catalyst