

AgI se forme en premier

$$[\text{CN}^-] = 6 \text{ mol} = 1,7 \times 10^{-6}$$

$$n = 2,8 \times 10^{-4} \text{ N}$$

$$C = 1 \text{ mol}$$

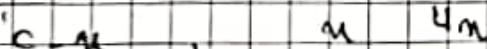
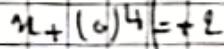
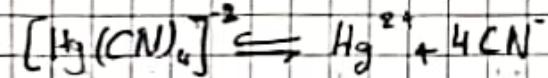
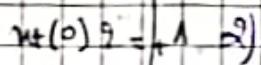
Série 4

$$k_d = \frac{(2,8 \times 10^{-4})^2 \times 6}{c - n}$$

Ex 1:

1). $[\text{Ag}(\text{NH}_3)_2]^+$: Diamine Argent (I)

$$K_d = 6,29 \times 10^{-42}$$



$$K_d = \frac{[\text{Hg}^{2+}][\text{CN}^-]^4}{[\text{Ag}(\text{NH}_3)_2]} = \frac{n(\text{Hg}^{2+})^4}{c - n}$$

$[\text{Cr}(\text{Cl})(\text{H}_2\text{O})_5]$: dichloro_titra_aqua_chrome (I)

$[\text{Ag}(\text{S}_2\text{O}_3)]^-$: Ion_dithiosulfate_Argentate (II)

$\text{Fe}(\text{CO})_5$: Penta_carbonyl Fer

$[\text{Al}(\text{OH})_4(\text{H}_2\text{O})_4]^-$: Ion_tetra_Hydroxo_diquat Aliminato

$$[\text{Hg}^{2+}] = 1,09 \times 10^{-4} \text{ mol} \cdot \text{M}$$

$$[\text{CN}^-] = 4,37 \times 10^{-9} \text{ M}$$

2). ion Hexaammine cobalt III $[\text{Co}(\text{NH}_3)_6]^{3+}$

ion tétra_iodo mercurate II $[\text{Hg}(\text{I})_4]^{2-}$

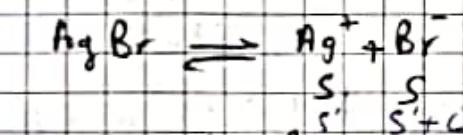
ion dithiosulfato argentate I $[\text{Ag}(\text{S}_2\text{O}_3)]^-$

ion hexacyano cobaltate II $[\text{Co}(\text{CN})_6]^{4-}$

ion tetra aqua cuivre II $[\text{Cu}(\text{H}_2\text{O})_4]^{2+}$

ion hex aqua chrome III $[\text{Cr}(\text{H}_2\text{O})_6]^{3+}$

Ex 3:

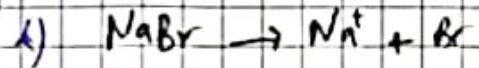


$$k_s = [\text{Ag}^+][\text{Br}^-] = S^2$$

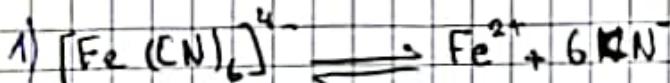
$$\text{S (mg/l)} \rightarrow \text{S (mol/l)} \frac{10^{-3}}{n}$$

$$S = 6,33 \times 10^{-3} \text{ M}$$

$$k_s = S^2 = 4 \times 10^{-13}$$



Ex 2:



$$t_{\text{eq}} = 0$$

$$n = 6m$$

$$k_d = \frac{[\text{Fe}^{2+}][\text{CN}^-]^6}{[\text{Fe}(\text{CN})_6]^{4-}} = \frac{6m^2}{c - n}$$

$$k_s = S'(S' + c)$$

$$k_s = S'(c) \Rightarrow S' = \frac{k_s}{c} = 8,032 \times 10^{-13}$$

$\leftrightarrow S'$

