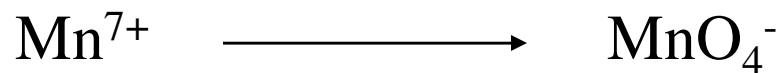
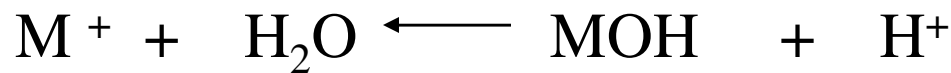
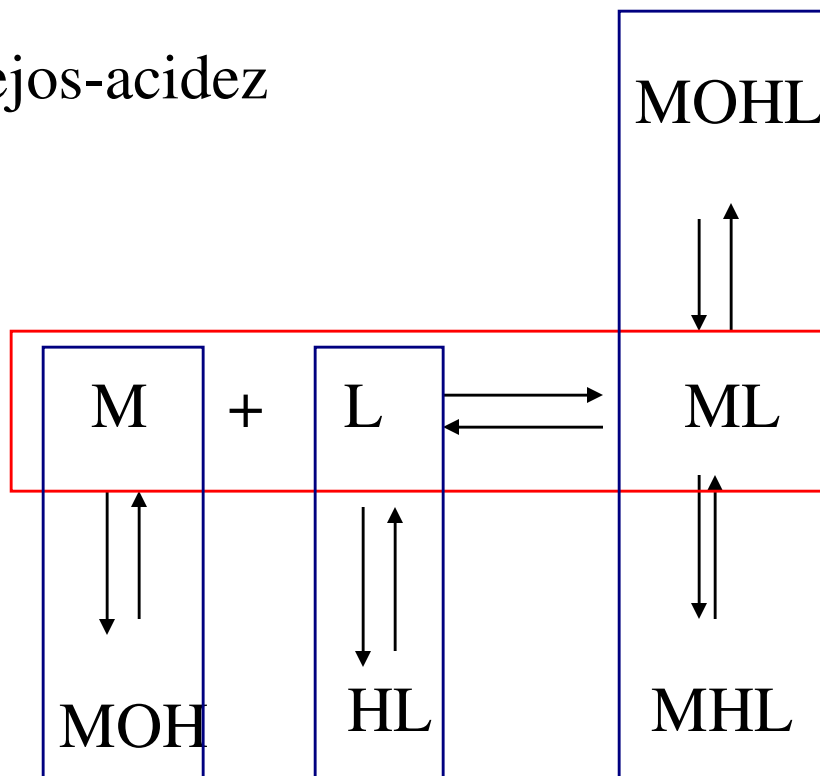


Complejos-acidez



Analisis cualitat.
Inorganico.

Fisiologia

Mineralogia

Productos naturales

Quimica preparati.

Pu. U
metaloenzimas

¿cómo se altera el porcentaje complejo formado con el pH?

$$(M)' + (L)' = (ML)'$$

$$(M)' = (M) + (MOH)$$

$$(L)' = (L) + (HL)$$

$$(ML)' = (ML) + (MOHL) + (MHL)$$

$$(M)' = (M) + K_{MOH}(M)(OH) = (M) \underbrace{[1 + K_{MOH}(OH)]}_{\alpha_{M(OH)}}$$

$$(L)' = (L) + K_{HL}(L)(H) = (L) \underbrace{[1 + K_{HL}(H)]}_{\alpha_{L(H)}}$$

FQ UNAM Alejandro Baeza

$$\begin{aligned}
 (\text{ML})' &= (\text{ML}) + K_{\text{MOHL}}(\text{ML})(\text{OH}) + K_{\text{MHL}}(\text{ML})(\text{H}) = (\text{ML}) \left[1 + \underbrace{K_{\text{HML}}(\text{H}) + K_{\text{MOHL}}(\text{OH})}_{\alpha_{\text{Ml(OH,H)}}} \right] \\
 &]
 \end{aligned}$$



$$pL = pK_d + \log \left[\frac{(\text{M})}{(\text{ML})} \right] = -\log (\text{L})$$

$$-\log \left[\frac{(\text{L})'}{\alpha_{\text{L(H)}}} \right] = pK_d + \log \left[\frac{\alpha_{\text{ML(OH)}}}{\alpha_{\text{M(OH,)}}} \right] + \log \left[\frac{(\text{M})'}{(\text{ML})'} \right]$$

En función de sendas expresiones de alfa

$$pL' = pK_d + \log \left[\frac{\alpha_{\text{ML(OH)}}}{\alpha_{\text{L(H)}} \alpha_{\text{M(OH,)}}} \right] + \log \left[\frac{(\text{M})'}{(\text{ML})'} \right]$$