$$\frac{1}{k(T_2)} = -\frac{\Delta H^6}{R} \cdot \left(\frac{1}{T_2} - \frac{1}{T_1}\right)$$

$$\frac{1}{K(T_1)} = \frac{30}{R} \cdot \left(\frac{1}{T_2} - \frac{1}{T_1}\right)$$

$$\frac{1}{K(T_1)} = \frac{1}{R} \cdot \left(\frac{1}{T_2} - \frac{1}{T_1}\right)$$

$$4 NH_3(g) + 5 O_2(g) \rightleftharpoons 4 NO(g) + 6 H_2O(g)$$

$$Q_{P}(T) = P_{ND}^{4} \cdot P_{H_{2}O}^{6} \Rightarrow \frac{Z^{4} \cdot Z^{6}}{Z^{4} \cdot Z^{5}} = \frac{Z^{10}}{Z^{9}} > 1$$

$$P_{NH_{3}}^{4} \cdot P_{O_{2}}^{5}$$

Na Bz (ac) + HzO(l) 
$$\rightarrow$$
 Na (ac) + Bz (ac) + HzO(l)

Na (ac) + HBz(ac) + OH

Acido

H++ OH

Piero 
$$Kp(r) = P_{ND}^{z} - P_{Cl}$$
 en equilibrio  $P_{Cl,ND}^{z}$ 

$$Z CINO(S) \stackrel{?}{\approx} ZNO(S) + CQ(S)$$

Thicid 0,320 by 0 0

Equilibrio 0,320 - 2x 2x x

$$P_{T_{eq}} = P_{C,ND} + P_{NO} + P_{CQ}$$
 $0,349 \, b_{zr} = 0,320 - 2x + 2x + x$ 
 $0,029 \, b_{zr} = x$ 

$$2 CINO(s) \stackrel{?}{=} 2NO(s) + CQ(s)$$

Thicid 0,320 by 0

Equilibrio 0,320 - 2x 2x x

0,262 0,058 0,029

$$K_{p(r)} = \frac{P_{No}^{2} \cdot P_{Cl}}{P_{ClNo}^{2}} = \frac{0.058 \cdot 0.029}{0.262^{2}} = 0.4715$$

$$K_{p(r)} = 0,4715$$

$$Ln\left(\frac{K(T_1)}{K\left(T_2\right)}\right) = -\frac{\Delta H}{R}\left(\frac{1}{T_1} - \frac{1}{T_2}\right)$$

$$= -\frac{76}{R} \left( \frac{1}{500} - \frac{1}{650} \right)$$

$$\frac{1}{500} = \frac{1}{650}$$

$$\Rightarrow & \left(\frac{k(\tau_{i})}{k(\tau_{2})}\right) =$$

Re werd Ac; Acido Ke werds

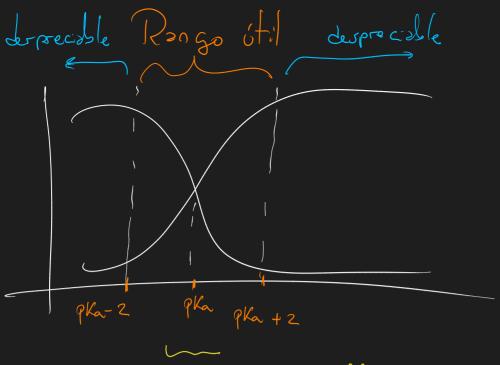
A<sup>2-</sup>: Bore Conjug ede.

Si tengo

Ht: Lo que me dice el pH Ac = A<sup>2-</sup> + 2 H<sub>3</sub>0<sup>†</sup>

Zeorges ) No hay on 2  $\mathbb{B}C) \quad \mathbb{Z}\left[A^{2}\right] + \left[OH^{-}\right] = \left[H_{3}O^{+}\right]$ poridemente se puede desprecier. Acido Ruerte 20 se disoca completamente [Ac]  $\approx$  0 g [A<sup>2</sup>] er to de le concent. inicial de Ac.  $C_A = \begin{bmatrix} A^{z-} \end{bmatrix}$ Acido debil 2) se disocs parcialmente [Ac] no er der preciable y  $C_{A} = \left[A_{C} \right] + \left[A^{2}\right]$ 

Concentre aion inicial de Ae



ghat 1: Zonz buffer.

Te dox

A6<0: Espontênce.

06 = - Z.F. DE

l no e

Puer foods less concentres / Cioner 500 1:  $\frac{1.1}{1.1}$  = 1

Condicioner Estander: Q=1

 $\Delta E = \Delta E^0 - \frac{RT}{zF} \ln(Q)$ 

Solubilided:

$$S = [B^{\dagger}] = [A^{\dagger}] \Rightarrow kps = S^{2}$$

Si bre cibijs:

Volumen total = 100ml + 1ml

$$\frac{\text{deto}}{\text{Ooling total}} = \frac{\text{deto}}{\text{Oonl}} + 1 \text{ ml}$$
Volume total = 100 ml + 1 ml

=> Qps = [Agt]2, [So2-]

Reenplate & Comparo

Ops Con Kps