7相1804 李 he 2018/10069 1. Lam la espère amphotère acido-basique peut react avec H+ et OH-AloH) + 3Hap,= Al3+ 3H2 A(0H) 3 toHap = A/02/07+242011, Alongo tothage = Alongo, Alongo, tothage = [Alongo] 21 . (. A/3+ 2, Alphy I Am = H+ toH Fe = 10-17 · 100 11 + + + 111 101 元 3. CA10HJ-4. Al. L'égnation. 3, A ( BH) ( 13) = A (3+ +30+ - Ks = CA) + [ COH-] 3 Ke= (0-14 = CH+) (0H) A paint A PH=4 ==> [H+]= 10-4 mol/L => [DH-] = 10-10 mol/L. AloH),  $t^3H^{\dagger} = Al^{3+} + 3H_{7}$   $\frac{K_S}{k_e^2} = \frac{CAl^{7+}}{CH^{\dagger}l^{3+}} = \frac{Ctrn}{CH^{\dagger}l^{3+}}$ done TA/3+) = · 10-2 mo//L. 4, Afternation = [Akon] K= 10-34 mag A134, 40H = [A10H) A(64) 3+ 0H = A(6 H) A =+HE+ 36+ 141/14 Art)=10=). K=10-34 [ [ ] -11>0= OH -1 H+ Ke=10-14 BA47 = 184 => K = 10-34 = (A/10/10) COA) 941= 1034 -> K=10-74

offent with a the land of the color of A+3+ + 3+0 = 3++ + A (07); (3) Ke? Ke3 CHT]> => [H+]= Wille Link Land William Land Land Harris J. Karlott Alott) J. tho = H+ + 6H- Ke = 10-14 My) A WELL , C A | 3+ +3 the = 3 H+ + A (OH)3 (3) Ke2 3 CANORUT K5-1010-32 Aleitly, +oH = [Along K = Ks B(42/02 = TA10H) CHA bH=10.) COH-7 = COH-7 = V-10-10 THO CE MANTO SEE THE SEAL VENT A PRINT A 6. pour 1/4 Alger + the THE THE WILL A| >+ + >e = A(s,  $E = E^{\circ}(A(3^{+}/A)) + \frac{0.06}{3} \log((A(3^{+})))$  pas de pH. C'est pente mule. Frank Hot The bon. 5/4. AllOH)3 +3e +3H+= Als+3H20 E= E° (A(M), /M) + 0:06 (CHT)3) = E° + 0:06 (M[H+]) = E° - 0106 PH. pernte = -0.06 e who he = " or x + - "

pour 3/4.

- broye. Le mineral pour faire la réaction plus vite et complète.
  - controlle est Feros. Dans le filtrent il ya [AlbAN] Naon- Hro.

9.