Iphdam brothol CH 421 PW 4 Mars Shi SA 807 907 (00) (19) - Ever Her Lyoton neuri D) prxa Ra 32.06pt 6.40mpa 76.9 lba 6.41 ma 121.86pt 6.4/ma 0,205 0.012 0,019 Va is corstant or theys bloory 's law who corred 90) Pro = 093000 0.780 alm 6.41 Mga kpr = 1.87x09 kpa kg mol 1 (Da) (1) 0.10 alm Coz Kfor 2 3,01 ×103 Wailly no [7] 0.10 alar (01.325 left 50)

3. \$\frac{4}{\text{xlo mol/kg}}\$

(1) 1. Dolar (01.325 left \subsetember 1)

[-tm \times 3.01 \text{xlo left left mol/kg}. Ma) \$109km Con Proza 3.0/x10 fela ligard -1 Silo ala Con x 181. notiga x 1 0.17 kg/mol
laca 3.0/x13kenhand 1

3B (a) 3a) (a) la) Che Par Kar Par 51,5 EX 83:3) 1-0.96020,088. 78.11 Spart barrer 6, 4 Dust 5,46 6,625 cm/-61e1=7 0,225 and among 19,09 - 84. 35 5/mel 34) 750g (Cly -13.5.K2) Kg 601-1 - 6-8TE ) 10.8 la 30k lig Inol B= 0.35 nol/us 0.35 mal / 10 x 0.75 hg 0,7620001 0.768 ms 38 1 g/mol 5a) 12049a= (20x1038a (B) 8.3140566a) 8,71485/6m 4300/2 (B) [B7-48 no! /mx 0.001m) L The shere 1.86 M bs, 0.048 mst 2 0.08928h wol bs Freehospon 2 -0.0890C

5P: (a) 2a) 5a) 7a)

2 a 2 a 1,381 0,590

FA 233932 = PB - 0.125 ag 2 Pa 180 0.83 I = 0,9 ht a Cult Son2--2 (22(0,010) + 12(0.020) + 12(0,030) + 12(0,030) (art CI Na F 2 2 (212) - 0.06 logy = - A [212] I'm logy - 0,563

85) 82.06pg 45 82006pg 122.0 8.2mga (661 26, = 8.3 MPa 46 8.2 MPa Follows Henry's law as the is earl wall equations 94) PCH 1 (, Ober Mary 44,4 xo3 hlalighmol 10 hr 1006Pa x 1 225 xt ridles 7.25x2 hol/b x lls 0.8769 lovent 1.97x103 26) Re= xa Rex >> xa= 5,0.00 60.15/mol 250 4,16 mol 9,16 = 4,1915 mol -601 -4.162 0.0319 mol 0.9924 stree 8,69 273 g/mol solute

3b) Kg 2 6.94 Kleg not -1 DTf- 0.780K.

b- Tx - 8.24 Klegnot -1 = 0.112 mol/kg 1/2 10.25=> 0.028mel

1/13 250g raphthelore 5,00g 178 5/and compound 5F 1b) (200 chm x 101.328 Wa 101.328 Wa 160 chm 2 160 chm 2 160 chm 2 161.325 Wh. 0.888 (5b) Iz 2222 bi = 1 (1 (0.040 x 3) + 3 (0.040) + 1 (0.030) + 1 (0.070) + (6.000) Lut [Fe(N)6]3- Lut (0.050)) - 2 (0.64) - 0.32