17 E / 19 Za, Problems 5,9 (a) (i) d(P) k6(A)(B) Keg = [A] [A] Weg [A]

SAJ] = [Ra [A] der 46 [B] The [Az] (1) de 2 kg (A) -2 kg (B) (B) (A) (B) = 2(A) = 2ha (A) SP MB (26a[tz]) (02) -ha(03) -ha(0)(02) +ha'(02)(0)

The resultant lead of the cost that of the cost = -kpka [02]"

(c)2 hz(B) J(B) K. (A) the (CC) - K, (CB)- ka (B) =0 (B): la [A) eler [9] (4. CA) Flor (CO) Legler (A) + k2 (C)
hitter)= (hitter) (n3ther) (hither) (legther) - 42 -(u, 'ther) flegther') - 622 bremetrales: OF, F d(Cop) 2ha(P20] + 46[F](R20] - 243[DP] =0 JE 2 2 ha (P2072-1610 (F20) + 243 [00)2-24 [OF)= The Pro)2 the CA) (Pro) 02 2lea (Pao J2 - les [& HE D) +26 of 2ha (Pan) 2 + 60 ft (S)

2 ho CP) (P207 = 14 hay [P20]2 (P) - Tha (Pro) d(F20) - Ka(F20)2 - Kb (P)(F20) 2 - ka (Fro) - [The (Pro) (Pro) · ka - J(Pro) (ka (Pro) + kb Tha (Pro) 3h Je 2 (Kr) (Pro) 78 Ya) \$4) (a) Vz (max (5) (5) + Mgm 0.205 mind don 3-1-2 (Max (875 max) don 3) 32 marol dr. 7 + 875 mildy - 8 Upage = 0,212 parol dy 35-1 Ja) his a heart King = Kint (B) Max = 0.250 mmldar 3-1 (E) = 23 mm) du ?.

2.8×10 nmoldunged-kear (2.3 nmoldung). 1.1×105 1 Herest Q_O RS Krowt 1.1x10 55-1 1.100 5-1 M-1 RLS 25 25 25 05 05 279

(a) PRO a 1+ To ke (a)

The 1+ 6.0 rs (3.0 x 10 dm and 5-1) [a]

0.5 2-1+(6.0×10-9s)(3.0×108 dm3mol-15)(Q) 2-1+1,8 dm3mol-1(Q) 18-2 (Q) = 0.55 M 7. J= Ins -> lops => 5, -0.01 To

Roz 8.6 pm NT2 Rof (Roth)

Bp,0~ 42 To

Op= 425, -42 Dollow Do Bp = 0.01 pp. 2 1. OFO PRO 21000 OF 0.01 00 20 Ny 2 V TRO REAR 20 CO $|-8,67| - \frac{R_0^6}{R_0^6 + R_0^6} = 0.99 = 0.99 (5.6)^6 + 0.99 R^6 = 86^6$ $R = \sqrt{5.66 - (0.99)(5.6)^8} = 2.6 nm$ 0.9900 00 00 00 CO 00 00 CE Co CE 0 WT;

KNEID) (1) Jus 46 (4) K. CW (W- KEASER) = Majas[80] SIN Up has CAJ(B) (N) Jeuz Ka [A](B) - Ka[W] - Ka[U] 10 CW32 KaCAJCB7 JEVI Ko (hal A) (1) ENEU 62 CH2 CICHOS [CH2CKM0-] = K(CH2CKM ON)(OH) d (Chrothe)0) - la (cha Cotho) decention] = k2 (K [CH2(1CH2OH) [OH)) P (7 E.6 d[Nor) 2kb (Mor) (2m)

Te:

- Kb (Mor) (2m)

- Ka (No) - Ka (Mor) 20

Te:

Te:

- Ka (Mor) - Ka (Mor) 20 Ka (Norma) + his (News) (Oz) & ha (NO)?

(Nava) 2 Ka [NO) -> d[Non] - 2 Kas (on) ka (NO)?

Ka' + his [Oz) Fe 2 Ka + his Coz

(S) V= (S) Vac (S)

6. 205 and dn 31 = 0.895 nddn 31 000 72 hooldn 3

0.208 mnoldn 31 = Vnex (S) (a 875 noldn 1)

6.007 2.01 dn 31 907 marol dan \$ Unex 2 0, 212 mmol don-3 5-1 61755, effection 45.8,10x15201dn=3= 4,70x10 darl en 3-1 1,18 ×105 1 = 3,68 ×106 m 151 E176.76). Open = 4x To 0,35= kg (516ns) 0,0625 ns-1 ENG 36) DED - 1+ 50 Ka [2] 1 - (+ (3,5 ns) (25 x 60 9 dn 3 mol - 5-1) (07 1 = (3.8×10-95) (2000) dm3m1-15-1) (8) 3 = 8,75 dm3mol-1 Q] (D) = 0.0381 molding