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START Experiments recorded for
  from SC-Database on Saturday, 01 January, 2000 at 00:48:50
Software version = 5.81 Data version = 4.62
Experiment list contains 686 experiments for
(no ligands specified)
2 metals : Pd(IV), Pd++
(no references specified)
(no experimental details specified)
*************************************
e -
              HL
                  Electron
                              (442)
Electron;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
                     Pd(IV) EMF none 18♦C 0.0 U
                                   1924JIa (793) 1
                         K=42.3(1220mV)
                         K'=32.9(950mV)
K: PdO3(s)+2H+2e=PdO2(s)+H2O. K': PdO2(s)+2H+2e=PdO(s)+H2O
*****************************
              HL
                  Bromide
                           CAS 10035-10-6 (19)
Br-
Bromide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     EMF NaClO4 25�C 0.40M U
                                   1971DUa (2221) 2
                         K5=3.48
                         K6=2.64
Medium: HClO4
********************************
C1-
                  Chloride
                            CAS 7647-01-0 (50)
              HL
Chloride:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
------
Pd(IV)
      EMF NaClO4 25♦C 0.40M U
                                   1971DUa (5441) 3
                         K5K6=4.22
Medium: HClO4
          -----
     sol NaCl 25�C 1.0M U
                                   1930WEa (5442) 4
                         K(K2PdL6(s)=2K+PdL6)=-5.22
*****************************
e-
              HL
                              (442)
                 Electron
Electron:
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                                         (794) 5
Pd++
      vlt none 25♦C 0.00 U
                                    1971JPa
                         K(Pd + 2e=Pd(s))=30.8(0.91V)
```

```
Pd++
       EMF oth/un 250C 4.00M U T
                                        1970IEa (795) 6
                             K(Pd + 2e=Pd(s))=33.1(979mV)
Medium: HCl04. K=34.8(978mV,10 C), 34.2(979mV,15 C), 33.5(975mV,20 C), 32.5
(978mV, 30 C), 31.8(972mV, 35 C), 30.9(960mV, 40 C)(m units)
     oth none 25�C 0.0 U
Pd++
                                        1968GHa (796) 7
                             K'=16.2 (480mV)
Method:Literature evaluated data. K': Pd(IV)I6+2e=PdI4+2I
______
                                  1968GHa (797) 8
Pd++ oth none 25♦C 0.0 U
                             K(Pd+2e=Pd(s))=31.1 (920mV)
Method:Literature evaluated data
______
Pd++ oth none 25♦C 0.0 U M
                                    1968GHa (798) 9
                             K(PdCl4+2e=Pd(s)+4Cl)=19.9
Method:Literature evaluated data. K(PdBr4+2e=Pd(s)+4Br)=16.6(0.49V),
K(PdI4+2e=Pd(s)+4I)=6.1(0.18V)
______
     EMF NaClO4 25�C 4.87M U I
                                        1968LMb (799) 10
                             K(Pd+2e=Pd(s))=33.67, 996 \text{ mV}
Medium: HClO4. I=3.46: K=32.19, 952 mV; I=2.22: K=31.25, 924.4 mV;
I=1.06: K=31.11, 920 mV
______
                                        1967IEa (800) 11
     EMF none 25�C 0.0 M H
                             K(Pd+2e=Pd(s))=30.9, 915 \text{ mV}
By calorimetry, 0.1 M NaI: DH(Pd+3I=Pd(s)+I3-)=-104.1 kJ mol-1
______
Pd++
     EMF oth/un 25�C ? U
                                       1965BKc (801) 12
                             K=38.21, 1130 mV (X=C1)
                             K=23.40, 692 mV (X=Br)
                             K=21.13, 625 mV (X=I)
K: Pd(en)2X2+2e=Pd(en)2+2X
_____
                        Pd++ oth none 25♦C 0.0 U
                                        1952LAb (802) 13
                             K=20(600 \text{ mV})
K: Pd(II)Br4+2e=Pd(s)+4Br. From thermodynamic data
K(PdO2(s)+H2O+2e=PdO(s)+2OH)=25(730 \text{ mV}) estimated
______
     EMF KCl 25♦C 1.0M U T
                                        1943TWa (803) 14
                             K=21.0(621 \text{ mV})
Medium: HCl. K: PdCl4+2e=Pd(s)+4Cl. At 15 C: K=21.8(623 mV), 35 C: 20.3(619
mV). In 4 M HClO4: K(Pd(II)+2e=Pd(s))=33.4(987 \text{ mV})
                        _____
Pd++ EMF NaCl 25♦C 1.0M U I
                                        1942GSa (804) 15
                             K=44.0(1301 \text{ mV})
K(Pd(IV)Cl6+2e-=Pd(II)Cl4+2Cl. In 1 M HCl: K=43.5(1286 mV). In 1 M KBr:
K(PdBr6+2e=PdBr4+2Br)=33.6(994 mV). 1 M KI: K(PdI6+2e=PdI4+2I)=16.3(482 mV)
_____
Pd++ oth KCl 25♦C 1.0M U
                                        1930WEa (805) 16
                             K = -3.62
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Medium: HCl. K: Pd(IV)Cl6=Pd(II)Cl4+Cl2(aq). Method:chemical analysis
K(Pd(IV)C16+2e=Pd(II)C14+2C1)=43.56(1288 mV) from thermodynamic data
*********************
                Bromide
                          CAS 10035-10-6 (19)
Bromide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ kin NaClO4 25�C 1.0M U M
                                 1973ELa (2222) 17
                       K(cis-trans-PdL2(H20)2)=0.78
                       K2(cis)=4.19
                       K2(trans)=3.41
                       K3(cis)=3.37
Medium: HClO4. K3(trans)=4.15. Kn: PdL2(H2O)2+nL
______
   sp NaClO4 ? 1.0M U K1=2.23 1973GSc (2223) 18
_____
Pd++ sp NaCl04 25¢C 1.0M U K1=5.17 B2=9.42 1972ELa (2224) 19
                       B3=12.7
                       B4=14.9
Medium: HClO4
_____
Pd++ sp NaClO4 25�C 4.50M U M
                                 1972FKa (2225) 20
                       K(PdC14+L=PdC13L+C1)=1.40
                       K(PdCl3L+L=PdCl2L2+Cl)=1.06
                       K(PdC12L2+L=PdC1L3+C1)=0.72
                       K(PdC1L3+L=PdL4+C1)=0.27
Medium: LiClO4
Pd++ cal NaClO4 25¢C 1.0M U H 1972RHa (2226) 21
Medium: HClO4. DH(K1)=-21.3 kJ mol-1, DS(K1)=27.2 J K-1 mol-1
______
Pd++ ISE diox/w 25�C 71% U TI
                               1968GFc (2227) 22
                      B4=19.0
B4=16.2(0%), also B4 for several other % dioxan. At 40 C: B4=18.1(71%)
15.3(0%)
___________
Pd++ sol NaCl04 20¢C 0.10M U K1=6.8 1967GGa (2228) 23
Pd++ cal oth/un 25�C 0.10M U H
                                 1967IWa (2229) 24
Medium:NaBr. DH(B4)=-54.8 kJ mol-1
______
Pd++ gl NaClO4 var var U
                                 1967KPc (2230) 25
                       K(PdBr3OH+Br=PdBr4+OH)=-4.23
19-50 C, I=0.1-1.0
______
Pd++ sp NaCl 25♦C 1.0M U
                                 1966BSa (2231) 26
B4=13.05
Pd++ sp NaClO4 45�C 1.80M U T H
                                 1966SBb (2232) 27
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K4=2.16
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K4=2.50(10 C),2.30(25 C). DH(K4)=-18.0 kJ mol-1, DS=-14.6 J K-1 mol-1
______
Pd++ ISE oth/un 25�C var U
                                   1965FKa (2233) 28
                         B4=14
Medium: KBr var. Also values for B4 at 10-60C assuming same K and 1/RTF as
for 25C!
-----
Pd++ sol oth/un 20♦C 0.60M U I
                                   1964PBa (2234) 29
                         B3=11.28
                         B4=13.42 ?
                         Kso = -12.54
                         K(PdL2(s)=PdL2)=-4.4
At I=0.4: Kso=12.96,K=-4.5, K(PdL2(s)+L)=-1.36, B3=11.60, B4=13.40?, K3=3.1,
K4=1.8
                                   1964SBe (2235) 30
Pd++ sp NaClO4 25♦C 0.50M U
                        K4=2.20
Pd++ sp NaClO4 20♦C 0.80M U
                         K1=4.37
                                   1964SLb (2236) 31
                         K4=3.50
Medium: 0.8(Cl04), 0.6 H+. By hypothesis method: K2=4.08, K3=3.79
                  Pd++ ISE oth/un 19♦C var U
                                   1963GKa (2237) 32
                         B4=16.1
-----
      oth none 25�C 0.0 U
                                   1952LAb (2238) 33
                         B4=13.10
Method: from thermodynamic data; I=0 corr.
******************************
                  Cyanide
CN-
                           CAS 74-90-8 (230)
              HL
Cyanide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
      ISE oth/un 25�C
Pd++
                  . C
                                   1976HEb (2752) 34
                         B4=63 (60<B4<65)
                         K(Pd(CN)2(s)+2CN)=20.8
                         Kso(Pd(CN)2)=-42
1967GGa (2753) 35
                         K1=10.5
    sol NaClO4 20�C 0.10M U
______
     ISE oth/un 25�C 0.0 U H
                                   1967IWa (2754) 36
Pd++
                         B4=42.4
                         K5=2.9
Medium: 0 corr. By calorimetry: DH(B4)=-385.8 kJ mol-1, DS=-485 J K-1 mol-1;
DH(K5)=-0.8, DS=33. DH(PdBr4+4L=PdL4+4Br)=-329
______
Pd++ ISE oth/un 25♦C var U T
                                   1965FKa (2755) 37
                         B4=51.6
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*******************************
             H2L Carbonate CAS 465-79-6 (268)
Carbonate:
           Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ sp NaCl 25�C 0.11M C I M
                                      2003CBa (3345) 38
Data for 0.105-1.0 M NaCl + H3BO3. K(PdCl4+HCO3=Pd(CO3)Cl3+H+Cl)=-6.68
K=-6.50 (I=0.305), -6.62 (I=0.505), -6.71 (I=0.705), -6.95 (I=1.005)
*************************
                             CAS 7647-01-0 (50)
C1-
               HL
                   Chloride
Chloride;
           Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ sp NaCl 25♦C 0.11M C I M
                                      2003CBa (5443) 39
                           K(PdCl3+Cl)=1.08
Data for 0.105-1.0 M NaCl, pH 3.0-8.5. K(PdCl4+H20=Pd(OH)Cl3+H+Cl)=-8.72.
K=-8.89 (I=0.305), -8.97 (I=0.505), -8.98 (I=0.705), -8.96 (I=1.005)
______
                                      2000BYa (5444) 40
Pd++ sp NaCl 25♦C 0.50M C
                          *K(PdC14) = -8.98
*K: PdC14+H20=PdC13(OH)+H.
______
Pd++
              25♦C 0.10M C TI M
      sol KCl
                                      1999VWa (5445) 41
                           B4=11.81
                           K(Pd+3Cl+OH)=20.21
Data for 20 C and I=0.8 m and for 25 C and I=0.1-1.0 m. At I=0, B4=11.29,
K(Pd+3C1+OH)=20.29.
__________
     sp NaNO3 37�C 0.16M C
                                      1998ESa (5446) 42
                           K(PdAH20)2+C1)=3.563
                           K(PdA(H20)C1+C1)=2.28
A is 1,3-diaminopropane.
Pd++ gl NaClO4 37♦C 0.15M C
                                      1996GTa (5447) 43
                           K(PdA(H20)2+L)=3.65
                           K(PdA(H20)2+2L)=5.86
                           *K(PdA(H20)2+L)=-2.68
A=diaminosuccinate diethylester, Et02CCH(NH2).CH(NH2)CO2Et
*K: PdA(H2O)2+L=PdA(H2O)(OH)L+H
-----
      sol NaCl 100�C 1.0M U T
                                     1995GAa (5448) 44
                           K3 = 0.30
Method: solubility of AgCl in Pt solution, 0.03-3.0 m HCl.
At 200 C, K3=1.20, at 300 C, K3=1.36
      kin NaClO4 25�C 0.10M U M
Pd++
                                      1993SHa (5449) 45
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Medium: KCN var

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Kout(PdABH20+L)=2.28
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A=N,N,N',N'-Tetraethyldiami	Kout(PdACH	120+L)=2.28 120+L)=1.86 Thosine-5'-mononhosphate
Pd++ sp oth/un 19 ¢ C 19-90 C. Constants at I=0		
Pd++ nmr non-aq 24 0 C Medium: CH2Cl2; Pd as Pd2(b) For iodide complex, DH=-5.0	100% U IHM K(PdI2+PdL K(PdBr2+Pd K(PdCl2+Pd Dis(diphenylphosphino)met	·
Pd++ oth NaClO4 25�C Analysis of literature data 2.0 M NaClO4. Equation give	K3=2.42 K4=0.88 a using Pitzer coefficien	nts. Data for 0.05 to
Pd++ sp NaCl04 25 ¢ C When I=0.1 M NaCl04: K1=6.6	K3=2.3 9, K2=4.6, K3=2.5	B2=7.2 1976YBa (5453) 4
Pd++ sp non-aq 20 0 C Medium: MeCN, LiCl at diffe	100% U I K(Pd2L4+2L K(Li+Pd2L6 erent concentrations. Wit	1974VOa (5454) 50 =Pd2L6)=6.4 5)=1.7 :h Me4NCl, values are:
Pd++ kin NaClO4 25�C Medium: HClO4. K(cis-PdL2(H	K2(cis)=3. K2(trans)= K3(cis)=2. K3(trans)=	1973ELa (5455) 51 11 -2.79 59 -2.90
Pd++ sp NaClO4 ?	1.0M U K4=1.27	1973GSc (5456) 52
Pd++ sp non-aq ? Medium: MeCN, 1.5 M Bu4N(C)	K(PdBr4+L= K(PdBr3L+L K(PdBr2L2+ K(PdBrL3+L	1973KFa (5457) 53 PdBr3L+Br)=1.24 =PdBr2L2+Br)=1.84 -L=PdBrL3+Br)=2.50 =PdL4+Br)=2.39
	1.0M U K1=4.47	B2=7.76 1972ELa (5458)

Medium: HClO4

Pd++ cal NaClO4 25**◊**C 1.0M U H 1972RHa (5459) 55 Medium: HC104. DH(K1)=-12.7 kJ mol-1, DS=43.1 J K-1 mol-1; DH(K2)=-10.8, DS=26.8; DH(K3)=-10.7, DS=10.0; DH(K4)=-14.2, DS(K4)=-21.8 ______ Pd++ oth non-aq 37**♦**C 100% U M 1971HMb (5460) 56 K(Li2Pd2L6+2LiL=2Li2PdL4)=-1.0Medium: CH3COOH. Method: vapor phase osmometry ______ vlt NaClO4 25�C 0.20M U 1971JPa (5461) 57 B3=7.94K4=1.44Medium: HClO4 Pd++ EMF oth/un 25**♦**C 3.0M U 1971KMh (5462) 58 K4=2.35Medium: H2SO4 Pd++ sp NaClO4 ? 1.0M U K1=3.48 B2=6.27 1970RGa (5463) 59 K3 = 2.35K4=1.1K1=4.7 B2=7.70 1969GKd (5464) 60 Pd++ EMF oth/un ? var U K3 = 2.6K4=1.61969KSc (5465) 61 Pd++ EMF NaClO4 25�C 1.0M U B4=12.15 Medium: H(ClO4,SO4) Pd++ ISE diox/w 25**¢**C 72% U TI K1=17.7 1968GFc (5466) 62 Also B4 for several dioxan percentages. At 40 C: B4=16.6(72% dioxan) -----Pd++ sp NaClO4 25�C 4.0M U TI 1968LEc (5467) 63 K4=2.00Medium: LiClO4. K4=1.77(I=3), 1.59(I=2), 1.43(I=1)At I=2: K4=1.68(15 C),1.59(25 C),1.51(40 C) Pd++ ISE NaClO4 25�C 3.40M U I 1968LMb (5468) 64 B4=11.4Medium: HC104. By spectrophotometry: K4=1.77(I=3.4), 1.44(I=1.07)______ Pd++ con oth/un 25**♦**C dil U 1967CMb (5469) 65 K(Pd(NH3)2L+L)=2.55 ? -----Pd++ sol NaClO4 25**¢**C 0.10M U K1=5.1 1967GGa (5470) 66

DH(B4)=-23	cal NaCl 25�C 0.10M U H 1967IWa (5471) 6 .0 kJ mol-1	7
Pd++	gl NaClO4 var var U 1967KPc (5472) 6 K(PdCl30H+Cl=PdCl4+OH)=-5.7	8
Pd++	gl R4N.X 25 ¢ C var U T 1967RBc (5473) 6 K(Pd(NH3)2L+L)=2.33 K(Pd(NH3)3+L)=3.0 (NO3). Also other constants and values at 30 C by spec.	i9
Med:1.0(Na	sp oth/un 25 0 C 1.0M U T H K1=4.00 B2=7.49 1966SBb (547 B3=9.73 B4=11.11 ClO4),0.8 H+. K4=1.50(10 C), 1.42(25 C), 1.28(45 C). DH(B4)=-11. DS=-12.1 J K-1 mol-1	•
	ISE KCl 25 ° C 1.0M U 1965FKa (5475) 7 B4=11.8 K(Pd+2e=Pd(s))=33.4 lues for 10-60C, assuming same K and 1/RTF as for 25C!	' 1
	sp oth/un 25 0 C 0.0 U I K1=6.0 B2=10.60 1964BSg (547 K3=2.5 K4=2.0 B4=15.1 r I=0.25 to 1.01 M NaClO4	 6) 72
	oth oth/un 25 ¢ C 1.0M U K1=3.88 B2=6.94 1964BUa (547 K3=2.14 K4=1.34 B4=10.42	 '7) 73
	bility, otheres by EMF, spec, 	
Pd++	sp NaClO4 25�C 0.50M U 1964SBe (5478) 7 K4=1.35	'4
Pd++	ISE oth/un 19 ♦ C var U 1963GKa (5479) 7 B4=12.2 K(Pd+2e=Pd(s))=33.4	'5
	sol none 25�C 0.0 U M 1962REa (5480) 7 Ks=-3.02 K(trans-Pd(NH3)2L+L)=2.41 Ks: Pd(NH3)2L2(s)=Pd(NH3)2L2	 '6
Pd++	sp NaClO4 20�C 0.80M U K1=4.34 B2=7.88 1961SLc (548 K3=2.68 K4=1.68	 1) 77

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Pd++ sp none 210C 0.0 U T H K1=6.2 B2=10.9 1957DBa (5482) 78
                            K3 = 2.5
                            K4=2.6
DH(K1)=-33 \text{ kJ mol-1}, DS=4.2 \text{ J K-1 mol-1}; DH(K2)=-38, DS=-42; DH(K3)=-33, DS=
-59; DH(K4)=-33, DS=-59. 38 C: K1=5.9, K2=4.1, K3=2.2, K4=2.5
______
Pd++ sp none 25¢C 0.0 U T H K1=6.1 B2=10.7 1956DRa (5483) 79
                            K3 = 2.4
                            K4=2.6
                            K5 = -2.1
                            K6 = -2.1
DH(K5)=0, DS=-38 J K-1 mol-1; DH(K6)=0, DS=-38
______
   ISE NaClO4 25�C 4.0M U
                                        1943TWa (5484) 80
                            B4=13.22
******************************
                                 (541)
Halides, comparative (for book data under ligand 80)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sol NaClO4 20♦C 0.10M U
                                        1967GGd (7412) 81
                            K(Pd+C1)=5.1
                            K(Pd+Br)=6.8
                            K(Pd+I)=10.0
                            K(Pd+CN)=10.5
______
Pd++ sp oth/un 270C 0.50M U HM 1967HPb (7413) 82
                            K(PdACl+I=PdAI+Cl)=1.95
                            K(PdABr+I=PdAI+Br)=1.48
                            K(PdABr+SCN)=2.23
A=dien. DH(Cl,I)=-15.5 \text{ kJ mol-1}, DS=-14.2 \text{ j k-1 MOL-1}. DH(Br,I)=-10.5, DS=-7;
DH(Br,SCN)=-19.6, DS=-22.6. Also other related data
______
Pd++ sp NaClO4 25?♦C 4.50M U
                                        1967SNa (7414) 83
                            K(PdBr4+I=PdBr3I+Br)=2.75
                            K(PdBr3I+I)=3.00
                            K(PdBr2I2+I)=1.70
                            K(PdBrI3+I=PdI4+Br)=0.80
______
                            1966BSd (7415) 84
Pd++ sp oth/un 25♦C 1.10M U
                            K(PdCl4+2Br=PdCl2Br2+2Cl)=1.99
                            K(PdCl2Br2+2Br=PdBr4+2Cl)=-.06
                            B(PdCl2Br2)=13.11
                            B(PdCl4)=11.12
Pd++ sp NaClO4 25♦C 4.50M U
                                        1966SNc (7416) 85
                            K(PdCl4+Br=PdCl3Br+Cl)=1.55
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K(PdCl3Br+Br=PdCl2Br2+Cl)=1.09
K(PdCl2Br2+Br=PdClBr3+Cl)=0.95
K(PdClBr3+Br=PdBr4+Cl)=0.55

Medium: Li			*****	*****	****	<***	*****	*****	*****	****
I- Iodide;			HL	Iod	ide		CAS 10034-	85-2 (20)	
Metal			-			_	s Lg K values		ence Exp	
	kin	NaClO4	25 ♦ C	1.00M	U		K1=6.08	1986E0a	(8319)	86
Pd++							K4=2.56 K(2PdL4=Pd2L6+2	1977E0b		
Pd++ Medium: Li 7.45, 8.25	iC104	. Data	also ⊣	for cor	nple	exes	K(PdCl4+L=PdCl3 K(PdCl3L=PdCl2L K(PdCl2L2+L=PdC K(PdClL3+L=PdL4 with Br in place	2+Cl)=4.1 lL3+Cl)=2 +Cl)=1.30	.8	
							K1=10.0			 89
 Pd++		oth/un					B4=24	1965FKa		90
Medium:KI.	. А	lso B4	for 10	0-60C,	ass	sumin	g same K and 1/R	TF as for	25C!	
Pd++	sp	NaClO4	20 ∲ C	0.80M			K1=4.95 K4=2.92 B4=15.74			91
Pd++		·			U		B4=24.9	1963GKa	(8325)	92
							K(PdL2(s)+2I=Pd	1948TAb		93
**************************************	****	*****	***** L				**************************************	******		****
Metal	Mtd	Medium	Temp	Conc (cal	Flag	s Lg K values	Refer	ence Exp	tNo
Pd++	gl	oth/un	25 ∲ C	1.0M	U	Н	K1=9.56 B2=1 K3=7.52	8.43 199	1NSb (9	 192) 9
Medium: H/	/NH3/	NaClO4;								
Pd++	gl	KN03	25 ♦ C	?	М	М	K1=6.06	1988SKa	(9193)	95

```
A=diethylenetriamine
______
Pd++ gl NaClO4 210C 0.10M C M
                                  1984KMe (9194) 96
                         K(PdGlyGly+L)=6.50
                         K(PdPheGly+L)=6.53
Data also for many other amines
______
Pd++ sp none 25♦C 0.0 C
                                  1975PJb (9195) 97
                         K(Pd(phen)+L)=7.45
                         K(Pd(phen)L+L)=6.3
______
Pd++ gl NaClO4 25�C 1.0M U
                        K1=9.6 B2=18.50 1968RJa (9196)
                        K3 = 7.5
                         K4=6.8
     ISE oth/un 25�C 0.50M U
                                  1965FKa (9197) 99
                         B4=29.6
                         K(Pd+2e=Pd(s))=33.4
Medium: L. Also B4 for 10-60 C but assuming same RT/F as at 25 C
*********************************
NO2-
             HL Nitrite
                           CAS 7782-77-6 (635)
Nitrite;
       Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                  1965FKa (9401) 100
Pd++ ISE oth/un 25�C var U
                         B4=21
                         K(Pd+2e=Pd(s))=33.4
Medium: KL var. B4 values 10-60 C, but RT/F at value for 25 C
********************************
             HL Hydroxide
                            (57)
Hydroxide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M C M
                                  2002MSb (11918) 101
                         *K(PdA(H20)2)=-5.54
                         *K(PdA(OH)H2O)=-15.01
K(2PdA(H2O)2=Pd2A2(OH)2+2H)=-7.90. A is N,N'-dimethylethylenediamine.
_____
Pd++ gl NaClO4 25♦C 0.10M C
                                  2001BPd (11919) 102
                         *K(Pd(dien)(H20))=-7.16
K(2Pd(dien)(H20)=Pd2(dien)2(OH)2)=-10.56.
______
Pd++
    gl NaNO3 25�C 0.10M C
                                  2001SHc (11920) 103
                         *K(Pd(bpy)(H20)2)=-3.91
                         *K(Pd(bpy)(OH)H2O)=-8.09
K(2Pd(bpy)=Pd2H-2(bpy)2 =-4.70
```

```
sol NaClO4 25�C 0.50M C TI K1=11.95 B2=23.20 1999VWa (11921) 104
Pd++
At I=1.0, B2=23.4, B3=26.2. At I=0.1, B2=23.8. Data for 25-85 C.
______
Pd++ sp NaClO4 25�C 1.0M C
                                    1998SEb (11922) 105
                          *K(Pt(H2O)4)=-3.0
Pd++ gl NaClO4 37♦C 0.15M C
                        M 1996GTa (11923) 106
                          *K(PdA(H20)2)=-5.25
                          *K(dimer)=-6.55
A=diaminosuccinate diethylester, EtO2CCH(NH2).CH(NH2)CO2Et
*K: PdA(H2O)2=PdA(H2O)(OH)L+H, *K(dimer): 2PdA(H2O)2=(PdA(H2O)2(OH)2)2+2H
______
      sol oth/un 25�C var M
                          B2=18.9
Pd++
                                    1991WOa (11924) 107
                          B3 = 20.9
Pd++ gl NaCl 25♦C 0.50M C I
                                    1984MBa (11925) 108
                          *K1=-9.23
                          *B(4,4)=-28.81
Data for 0.5-3.0 M NaCl. At I=1.0 M, *K1=-9.30, *B(4,4)=-29.10
______
Pd++ sol NaClO4 17♦C 0.10M U
                          K1=11.72 B2=23.57 1970NKb (11926) 109
                          K3=1.85
                          K4=1.0
                          Kso(Pd(OH)2(s))=-28.96
Pd++ sp none 25♦C 0.0 M K1=12.4 B2=26.5 1967IEa (11927) 110
By glass electrode: K1=13.0, B2=25.8. By solubility: Ks(PdL2(s)=PdL2)=-2.65
______
Pd++ sp oth/un 25�C var U
                                    1966WYa (11928) 111
                          *K1(PdCl2(H20)2)=-2
______
Pd++ oth none 25♦C 0.0 U
                                    1957ZMa (11929) 112
                          *Kso(Pd(OH)2)=-2.35
                          *Kso(PdO) = -3.02
*Kso: K(Pd(OH)2(s)+2H=Pd2+2H2O); *Kso(PdO(s)+2H=Pd2+H2O); method:
combination of thermodynamic data
Pd++ oth none 25♦C 0.0 U
                                    1952LAb (11930) 113
                          Kso(Pd(OH)2) = -31
*******************************
            H3L Phosphate
P04---
                           CAS 7664-38-2 (176)
Phosphate;
       -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25%C ? M M K1=3.10
                                    1988SKa (13301) 114
                         K(PdA+L)=2.63
A=diethylenetriamine
**************************
             H2L Sulfide
S--
                            CAS 7783-06-4 (705)
```

```
Sulfide;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sol oth/un 200�C var U T
                                   1993GBa (14450) 115
                         Ks(PdS+H2S)=-7.0
                         Ks(PdS+2H2S)=-11.2
Constants at I=0. 30-300 C
______
Pd++ oth none 25♦C 0.0 C
                                   1989DYa (14451) 116
                         KPd+HS=PdS+H)=43.4
Calculated from literature data, based on K(H+S)=17.0.
______
Pd++ oth none 25�C 0 U
                                  1988LIa (14452) 117
                         Kso(PdS) = -62.1
                         *Kso(PdS)=-44.8
Derived from thermodynamic data and K(H+S=HS)=17.3.
*******************
            HL Thiocyanate CAS 463-56-9 (106)
Thiocyanate;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
    sp NaClO4 30�C 0.10M U I B2=16.2 1973JPa (15222) 118
                         B4=25.2
Medium: HClO4. At I=0, B2=16.9, B4=25.6
______
Pd++ sp oth/un 25♦C 1.0M U M
                                  1967BSc (15223) 119
                         B4=28.67
                         K(PdC14+L=PdC13L+C1)=6.03
                         K(PdC13L+L=PdC12L2+C1)=4.09
                         K(PdC12L2+L=PdC1L3+C1)=3.59
Medium: 1 NaCl,0.1 H+. K(PdClL3+L=PdL4+Cl)=3.03
-----
Pd++ sp oth/un 25♦C 1.0M U
                                   1966BSd (15224) 120
                         B(PdBrL3)=25.85
                         B(PdBr2L2)=22.25
                         B(PdBr3L)=18.15
                         B(PdBr4)=13.05
B(PdClL3)=25.19; B4=28.22. Medium: 1 M Na+, 0.1 M H+
______
Pd++ ISE oth/un 25�C var U
                                   1965FKa (15225) 121
                         B4 = 26
                         K(Pd+2e=Pd(s))=33.4
Medium: KI. Also B4 values 10 to 60 C - doubtful since RT constant
______
Pd++ ISE oth/un 25�C dil U T
                                   1964GPa (15226) 122
                         B4=19.46
Kso=-17.8. By spectrophotometry: B2=8.4. By solubility, 20 C: K(PdL2(s)+2L)=
1.63
```

Pd++	sol oth/un 20 ∲ C var	U Ks(PdI2(s)+L=PdI	1964GPa (15227) 123 .2L)=-0.47
Pd++	ISE oth/un 19 ≎ C var	U B4=27.6 K(Pd+2e=Pd(s))=	1963GKa (15228) 124
******	*******	********	
SO3 Sulfite;	H2L Sulf	ite CAS 7782-99	9-2 (801)
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
Pd++	con oth/un ? var	K(PdL2(OH)(H2O)-	

SO4 Sulfate;	H2L Sulf	ate CAS 7664-93	3-9 (15)
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
Pd++	sp NaClO4 25�C 1.0M	C K(Pd+S04)=1.28 K(Pd+HS04)=-0.1! K(PdS04+H)=-0.40	
Pd++ Medium:HCl		U B2=3.16	1971JPa (16470) 127
Se Selenide;	H2L Sele		* * * * * * * * * * * * * * * * * * *
Metal	Mtd Medium Temp Conc C	al Flags Lg K values	Reference ExptNo
Pd++	oth none 25 0 C 0.0	U Kso=-73.4	1964BUe (16947) 128
******	********	********	********
CH2O2 Methanoic	cid; H.COOH	ic acid CAS 64-18-6	•
Metal		al Flags Lg K values	
Pd++ DH(Pd+HL=P	kin NaClO4 25�C 1.00M	U H K1=3.67 K(Pd+HL=PdL+H)=0 (Pd+HL=PdL+H)=-29 J K-1	
		M M K1=2.22 K(PdA+L)=2.14	1988SKa (17640) 130
A=diethyle ******		*********	********

```
CH4N2O
                    Urea
                         CAS 57-13-6 (2018)
Carbamide, Urea; (H2N)2CO
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
nmr oth/un 40≎C 0.90M U
                                       1998KKf (17723) 131
                            K(Pt(H20)2en+L)=0.11
Method: 13C nmr. K is for N-bound ligand. For O-bound urea, K=1.36.
Also data for many other alcohol/H20 mixtures.
********************************
                    Thiourea
                               CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H2N)2CS
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp oth/un ? 1.0M U
                          Μ
                                       1966SBb (17848) 132
                            K(PdC12L2+L=PdC1L3+C1)=4.86
                            K(PdBr2L2+L=PdBrL3+Br)=4.65
                            K(PdC1L3+L=PdL4+C1)=4.24
                            K(PdBrL3+L=PdL4+Br)=4.18
K(Pd(SCN)2L2+L=Pd(SCN)L3+SCN)=2.95; K(Pd(SCN)L3+L=PdL4+SCN)=2.52. I=1 or 0.2
**********************************
                    Methylamine
                               CAS 74-89-5 (155)
CH5N
Methylamine; CH3.NH2
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                        Reference ExptNo
______
      gl NaNO3 25�C 0.10M C
Pd++
                                       2002MSb (18023) 133
                            K(PdA+L)=7.64
                            K(PdA+2L)=13.46
                            K(PdA+B+L)=16.57
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutane dicarboxylic acid.
______
Pd++
       gl NaNO3 25 C 0.10M U
                          Μ
                                       1999SSd (18024) 134
                            K(Pd(pn)+L)=6.96
                            K(Pd(pn)+2L)=13.57
pn is 1,2-diaminopropane. For amine protonation, K1=10.43.
______
       gl KNO3 25©C 0.10M M
                          Μ
                            K1=7.56
                                       1991SKe (18025) 135
                            K(Pd(dien)+L)=4.86
Also data for complexes with homologous alkylamines.
Pd++
                                       1984KMe (18026) 136
      gl NaClO4 21♦C 0.10M C
                            K(PdGlyGly+L)=7.18
                            K(PdPheGly+L)=7.31
Data also for many other amines
*********************************
               H2L
CH6N03P
                   AMPA
                                CAS 1066-51-3 (1981)
Aminomethylphosphonic acid; H2N.CH2.PO3H2
```

Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference ExptNo
Pd++ B(PdH-2L)=		KNO3	25 ∲ C	0.10M C		B2=27.51 B(PdH2L2C12)=3 B(PdHL2C12)=35 B(PdHLC12)=24. B(PdLC12)=21.0	8.76 .68 65
Pd++ *******						K(Pd+L+Cl)=21. K(Pd+2L)=27.70 K(Pd+L+H+2Cl)= *******	
C2H2O4 Ethanedioi			H2L			CAS 144-6	
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference ExptNo
 Pd++ Medium : H		NaClO4	18 ¢ C			K1=8.72	1972NKb (19031) 139
Method : i	on-m	igratio	n	? U		K2=3.55	1972NKb (19032) 140
C2H2S4 Tetrathio-			H2L				-65-2 (2965)
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference ExptNo
Pd++	•			0.05M U		B(Pd2L)=8.11	1957JBa (19170) 141
******** C2H3N Acetonitri			***** L			**************************************	**************************************
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference ExptNo
Pd++ Medium: Me						K(Pd3A3CO+L)=-	1994PAa (19192) 142 1.0
Pd++ Medium: HC C, K1=19.6	sp 2104.	NaClO4 DH(K1): =1.94; a	25 ¢ C =-8.6 at 15	1.00M C kJ mol-1 C, K1=16	 T H . DS(K .7, K2	 K1=15.5 B2= 1)=-6 J K-1 mo =1.67	
C2H3N3S 1,2,4-Tria	ızoli	ne-3-th:	L ione;			CAS 3179-	31-5 (4221)
Metal	Mtd	Medium	Temp	Conc Cal	Flags	Lg K values	Reference ExptNo

```
Pd++ sp KCl ? 1.00M U
                                 1973RRc (19244) 144
                       B4=32.4
Medium: HCl
*********************************
             L Ethylene
                      CAS 74-85-1 (478)
Ethene; H2C:CH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sol oth/un 25♦C 2.00M U
                                 19720La (19428) 145
                        K(PdC13+L)=4.79
                        K(PdBr3+L)=3.64
                        K(PdI3+L)=1.68
                        K(Pd(SCN)3+L)=2.00
Medium: MgSO4 K(Pd(NO2)3+L)=1.34
______
     sol NaClO4 13�C 2.0M U I
Pd++
                                 1966PMb (19429) 146
                        K(PdCl4+L=PdCl3L+Cl)=1.19
                        K(PdCl3L=PdCl2(H20)L+Cl)=-1.5
Medium: HClO4. K(PdCl4+L=PdCl2(H2O)L+2Cl)=-0.7. I=3.0: K values: 1.2, -0.7,
0.4. I=4.5(LiClO4+HClO4): K values: 1.21, -0.4, 0.81
HL Acetic acid CAS 64-19-7 (36)
Ethanoic acid; CH3.COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
    sp NaClO4 25�C 1.00M U K1=4.34
                                 1996SEa (20127) 147
______
Pd++ sp alc/w 25◊C 100% U M
                                 1994PAa (20128) 148
                        K(Pd3A3C0+L)=2.86
Medium: MeOH. A=Bis(diphenylphosphino)methane
Pd++ gl KNO3 25¢C ? M M K1=2.73 1988SKa (20129) 149
                       K(PdA+L)=2.52
A=diethylenetriamine
______
Pd++ sp NaClO4 25♦C 0.92M U
                       K1=4.9 B2=8.0 1976YBa (20130) 150
                       K3 = 2.6
______
    sp non-aq 25♦C 100% U M
                                 19720Ma (20131) 151
                        K(PdL2+CeL3=CePdL5)=4.8
Medium: CH3COOH
********************************
                Thioglycolic CAS 68-11-1 (596)
C2H402S
            H2L
Mercaptoethanoic acid; HS.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl NaClO4 25 C 1.00M C
                        B2=47.5
Pd++
                                 2000SAb (20356) 152
                        K(Pd+HL)=22.2
                        K(Pd+2HL)=37.1
********************************
                 Glycolic acid CAS 79-14-1 (33)
C2H4O3
2-Hydroxyethanoic acid; HO.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp NaCl04 25¢C 1.00M U K1=3.81 1996SEa (20608) 153
**********************************
             L
                          CAS 60-35-5 (2886)
                Acetamide
Ethanoic acid amide; CH3.CO.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp oth/un 25♦C .001M U K1=4.46 1958MCa (20673) 154
*******************************
                          CAS 56-40-6 (85)
                Glycine
2-Aminoethanoic acid; H2N.CH2.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25�C 0.10M U M
                                 1999SSd (21677) 155
                        K(Pd(pn)+L)=11.01
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.60, B2=11.93.
______
Pd++
      gl NaNO3 37¢C 0.16M M
                                 1998ESa (21678) 156
                        K(PdA+L)=10.76
A is 1,3-diaminopropane.
______
Pd++ gl KNO3 25�C 0.50M U
                                 1978LIa (21679) 157
                        K(Pd(en)+L)=11.21
Pd++ gl NaClO4 20�C 1.00M C
                       K1=15.25 B2=27.50 1976AMa (21680) 158
                       K(PdL+2Br)=6.47
Pd++ gl oth/un 250C 0.01M U K1=9.12 B2=17.55 1949MMa (21681) 159
**********************
             L Glycinamide
                          CAS 598-41-4 (60)
2-Aminoethanoic acid amide; H2N.CH2.CO.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                      Μ
Pd++ gl NaNO3 25♦C 0.10M U
                                 1999SSd (21951) 160
                        K(Pd(pn)+L)=8.58
                        K(Pd(pn)+L=PdH-1(pn)L+H)=5.35
pn is 1,2-diaminopropane. For amine protonation, K1=7.88.
Pd++ gl NaNO3 37♦C 0.16M M
                                 1998ESa (21952) 161
```

K(PdA+L)=7.41 K(PdA+L=PdAH-1L+H)=4.20

Pd++ g1 KN03 25�C 0.10M U M K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.64 K(Pd(en)+L)=8.65 K(Pd(en)+L)=	A is 1,3-d	iami	nopropai	ne.			
C2H6OS							K(Pd(en)+L)=8.64 K(Pd(en)L=PdH-1(en)L+H)=-2.47
Pd++ sp oth/un 25�C ? U T H K1=0.954 B2=0.56 1987DMa (22117) : DH(K1)=-7.3 kJ mol-1; DS(K1)=-8.4 J K-1 mol-1 Pd++ sp alc/w 25�C 95% U I 1982CCa (22118) 164	C2H6OS			L	DMSO	****	
DH(K1)=-7.3 kJ mol-1; DS(K1)=-8.4 J K-1 mol-1 Pd++ sp alc/w 25♠C 95% U I	Metal	Mtd	Medium	Temp	Conc Cal	Flag	s Lg K values Reference ExptNo
K(PdCl4+L=PdLCl3+Cl)=1.8							
C2H7NO L Ethanolamine CAS 141-43-5 (1057) 2-Aminoethanol; H2N.CH2.CH2.OH Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo Pd++ gl NaNO3 25 C 0.10M U M 1999SSd (22415) 165	Medium: 95%	% Me	OH/H2O				K(PdCl4+L=PdLCl3+Cl)=1.8 K(PdLCl3+L=PdL2Cl2+Cl)=-1.6
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo Pd++ gl NaNO3 25♠C 0.10M U M 1999SSd (22415) 165 K(Pd(pn)+L)=7.30 K(Pd(pn)+L)=PdH-1(pn)L+H)=1.94 pn is 1,2-diaminopropane. For amine protonation, K1=9.31. Pd++ gl NaNO3 37♠C 0.16M M M 1998ESa (22416) 166 K(PdA+L)=6.81 K(PdA+L=PdAH-1L+H)=1.85 A is 1,3-diaminopropane. Pd++ gl KNO3 25♠C 0.10M M M 1991SKe (22417) 167 K(Pd(dien)+L)=5.29 Pd++ gl KNO3 25♠C 0.10M U M 1981LIb (22418) 168 K(Pd(H2O)2A+L=PdLA+2H2O)=7.88 K(Pd(H-1L)A+H)=5.16 A=1,2-diaminoethane ***********************************	C2H7NO			L	Ethano	lamin	e CAS 141-43-5 (1057)
K(Pd(pn)+L)=7.30 K(Pd(pn)+L=PdH-1(pn)L+H)=1.94 pn is 1,2-diaminopropane. For amine protonation, K1=9.31. Pd++ gl NaNO3 37 C 0.16M M M 1998ESa (22416) 166 K(PdA+L)=6.81 K(PdA+L=PdAH-1L+H)=1.85 A is 1,3-diaminopropane. Pd++ gl KNO3 25 C 0.10M M M 1991SKe (22417) 167 K(Pd(dien)+L)=5.29 Pd++ gl KNO3 25 C 0.10M U M 1981LIb (22418) 168 K(Pd(H20)2A+L=PdLA+2H20)=7.88 K(Pd(H-1L)A+H)=5.16 A=1,2-diaminoethane ***********************************	Metal	Mtd	Medium	Temp	Conc Cal		
K(PdA+L)=6.81 K(PdA+L=PdAH-1L+H)=1.85 A is 1,3-diaminopropane. Pd++ gl KN03 25�C 0.10M M M 1991SKe (22417) 167 K(Pd(dien)+L)=5.29 Pd++ gl KN03 25�C 0.10M U M 1981LIb (22418) 168 K(Pd(H20)2A+L=PdLA+2H20)=7.88 K(Pd(H-1L)A+H)=5.16 A=1,2-diaminoethane ***********************************							K(Pd(pn)+L)=7.30 K(Pd(pn)+L=PdH-1(pn)L+H)=1.94
K(Pd(dien)+L)=5.29 Pd++ gl KNO3 25�C 0.10M U M 1981LIb (22418) 168					0.16M M	M	K(PdA+L)=6.81
<pre>K(Pd(H2O)2A+L=PdLA+2H2O)=7.88 K(Pd(H-1L)A+H)=5.16 A=1,2-diaminoethane ************************************</pre>	Pd++	gl	KNO3	25 ∲ C	0.10M M	M	,
**************************************	Pd++	gl	KNO3	25 ∲ C	0.10M U	М	K(Pd(H2O)2A+L=PdLA+2H2O)=7.88
	**************************************	****	******	L	Ethyle		
Pd++ gl KNO3 25 ¢ C 0.20M C M 2001NSa (23218) 169	Metal	 Mtd	Medium	Temp	Conc Cal	Flag	s Lg K values Reference ExptNo
	Pd++	gl	KNO3	25 � C	0.20M C	 М	2001NSa (23218) 169

```
*B2(PdL(H20)2)=-15.21
K(2PdL(H2O)2=Pd2(OH)L2+H)=-3.04, K(2PdL(H2O)2=Pd2(OH)L2+2H)=-8.41,
K(3PdL(H2O)2=Pd3(OH)3L3+3H)=-11.80
Pd++
     gl NaNO3 25�C 0.10M C
                                     2001SHc (23219) 170
                          K(Pd(bpy)(H20)2+L)=17.08
                           K(Pd(bpy)(H20)2+H+L)=20.87
______
Pd++ gl KNO3 25¢C 0.10M M
                                     1991SKe (23220) 171
                          K(Pd(dien)+L)=6.70
                          K(Pd(dien)+H+L)=14.63
______
      gl NaCl04 25 C 1.00M C M K1=23.6 B2=42.20 1986ANa (23221) 172
Ternary complex with Br-. Combined pot. and spectrophotometric study
______
       gl KNO3 23%C 0.20M U
                                     1976LMa (23222) 173
                         K(2PdL(OH2)2=LPd(OH)2PdL)=8.3
**********************************
              H4L HEDPA
                              CAS 2809-21-4 (436)
1-Hydroxyethane-1,1-diphosphonic acid; CH3.C(OH)(PO3H2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                         K1=5.74
                                     1980ZRc (23394) 174
Pd++ gl KNO3 25♦C 0.10M U
                          K(Pd+HL)=4.44
                          K(Pd+H2L)=2.41
**********************************
                   Imidazole CAS 288-32-4 (90)
C3H4N2
1,3-Diazole, imidazole; C3H4N2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25◊C 0.10M C
                                     2002MSb (23917) 175
                          K(PdA+L)=7.92
                           K(PdA+2L)=14.64
                           K(PdA+B+L)=14.20
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutane dicarboxylic acid.
-----
Pd++ gl NaNO3 37♦C 0.16M M
                        Μ
                                     1998ESa (23918) 176
                          K(PdA+L)=7.29
                          K(PdA+2L)=13.87
A is 1,3-diaminopropane.
-----
Pd++ gl KNO3 25♦C ? M M K1=6.40
                                     1988SKa (23919) 177
                          K(PdA+L)=5.62
A=diethylenetriamine
*************************
              H2L Malonic acid CAS 141-82-2 (79)
Propanedioic acid; CH2(COOH)2
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Metal
                    Pd++ gl NaClO4 37♦C 0.15M C
                                    2003TMb (24533) 178
                         K(Pd(en)+L)=5.40
    kin NaClO4 25�C 1.00M U H
                         K1=3.40
                                    1997SEa (24534) 179
                          K(Pd+HL=PdL+H)=0.8
DH(Pd+HL=PdL+H)=-7.5 \text{ kJ mol-1}, DS(Pd+HL=PdL+H)=-10 \text{ J K-1 mol-1}
******************************
C3H6
                  Propylene CAS 115-07-1 (702)
Propene: CH3.CH:CH2
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Pd++ sol oth/un 25♦C 2.00M U
                        М
                                    19720La (24755) 180
                         K(PdC13+L)=4.97
                          K(PdBr3+L)=3.72
                          K(Pd(NO2)3+L)=1.39
                          K(PdI3+L)=1.70
Medium: MgSO4
*******************************
                  Propionic acid CAS 79-09-4 (35)
              HL
Propanoic acid; CH3.CH2.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp NaClO4 25�C 1.00M U
                          K1=4.32
                                    1996SEa (25040) 181
______
      sp alc/w 25♦C 100% U M
Pd++
                                    1994PAa (25041) 182
                         K(Pd3A3CO+L)=3.41
Medium: MeOH. A=Bis(diphenylphosphino)methane
Pd++
      gl KNO3
             25♦C ? M
                        M K1=2.94
                                    1988SKa (25042) 183
                         K(PdA+L)=2.60
A=diethylenetriamine
*******************************
                            CAS 2444-37-3 (1074)
              HL
(Methylthio)ethanoic acid; CH3.S.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25�C 1.00M C
                          K1=13.2 B2=22.30 2000SAb (25092) 184
Pd++ kin oth/un 25♦C 1.00M U
                                    1996SEa (25093) 185
                         K1eff=4.08
Medium: 1.00 M HClO4.
***********************************
                            CAS 79-33-4 (82)
C3H6O3
              HL
                 L-Lactic acid
L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Metal
        kin NaClO4 25�C 1.00M U
                           Н
                               K1=3.79
                                          1997SEa (25515) 186
                              K(Pd+HL=PdL+H)=1.42
DH(Pd+HL=PdL+H)=-6.6 \text{ kJ mol-1}, DS(Pd+HL=PdL+H)=-18 \text{ J K-1 mol-1}
Pd++
        gl KNO3
                25♦C
                      ? M
                            М
                               K1=2.02
                                          1988SKa (25516) 187
                              K(PdA+L)=1.89
A=diethylenetriamine
**************************
                     Methoxyacetic CAS 625-45-6 (29)
Methoxyethanoic acid; CH3.0.CH2.COOH
        Mtd Medium Temp Conc Cal Flags Lg K values
                                            Reference ExptNo
______
       kin NaClO4 25�C 1.00M U H K1=3.60
                                          1997SEa (25605) 188
                              K(Pd+HL=PdL+H)=1.60
DH(Pd+HL=PdL+H)=-6.8 kJ mol-1, DS(Pd+HL=PdL+H)=-18 J K-1 mol-1
********************************
                 HL
                                 CAS 127-06-0 (7906)
C3H7N0
Acetoxime;
              Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                            Reference ExptNo
Pd++
       sp non-aq 40♦C 100% C I M
                                          2001KKa (25641) 189
                              K(cis-Pd(en)(S)2+L)=2.51
                              K(cis-Pd(en)L(S)+L)=1.52
                              K(cis-Pd(A)(S)2+L)=1.59
                              K(cis-Pd(A)L(S)+L)=0.48
Medium: acetone (S). Also data for D2O/acetone mixtures.
Additional methods: 1H and 13C nmr. A is 3,6-dithia-1,8-octanediol.
************************
                     DMF
                                 CAS 68-12-2 (598)
N,N-Dimethylformamide; HCO.N(CH3)2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++
       sp alc/w 25◊C 100% U I M
                                          1994PAa (25666) 190
                              K(Pd3A3CO+L)=-0.27
Medium: MeOH. A=Bis(diphenylphosphino)methane. In toluene, K=-0.15;
in CH3CN, K=-0.35; in acetone, K=-0.62; in CH2Cl2, K=-0.59
*******************************
C3H7N02
                                  CAS 56-41-7 (86)
                 HL
                     Alanine
2-Aminopropanoic acid; H2N.CH(CH3).COOH
______
       Mtd Medium Temp Conc Cal Flags Lg K values
                                            Reference ExptNo
        gl NaNO3 25 C 0.10M U
Pd++
                                          1999SSd (26239) 191
                              K(Pd(pn)+L)=11.42
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.69, B2=11.88.
```

```
gl NaNO3 37¢C 0.16M M
                                 1998ESa (26240) 192
Pd++
                        K(PdA+L)=10.90
A is 1,3-diaminopropane.
    gl KNO3 25�C 0.50M U
                                  1978LIa (26241) 193
Pd++
                        K(Pd(en)+L)=11.22
______
Pd++ gl KNO3 20♦C 0.5M U K1=9.98 B2=18.33 1974KHb (26242) 194
B-Alanine CAS 107-95-9 (575)
3-Aminopropanoic acid; H2N.CH2.CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 20 C 0.5M U T K1=8.73 B2=15.79 1974KHb (26473) 195
Sarcosine
                          CAS 107-97-1 (87)
C3H7N02
             HL
N-Methyl-2-aminoethanoic acid; CH3.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25�C 0.50M U
                                  1978LIa (26606) 196
                     K(Pd(en)+L)=11.28
************************************
                 Cysteine
             H2L
                          CAS 52-90-4 (96)
2-Amino-3-mercaptopropanoic acid; H2N.CH(CH2.SH)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        B2=51.6
     gl NaClO4 25�C 1.00M C
                                 2000SAb (26822) 197
Pd++
                        K(Pd+HL)=27.3
                        K(Pd+2HL)=45.0
******************
                              ************
C3H7NO3
                           CAS 56-45-1 (49)
             HL
                 Serine
2-Amino-3-hydroxypropanoic acid; H2N.CH(CH2.OH)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
     gl NaNO3 25�C 0.10M U
                                  1999SSd (27167) 198
                        K(Pd(pn)+L)=12.00
                        K(Pd(pn)+L=PdH-1(pn)L+H)=3.74
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.14, B2=11.40.
  -----
Pd++
     gl NaNO3 37�C 0.16M M
                                  1998ESa (27168) 199
                        K(PdA+L)=10.19
                        K(PdA+L=PdAH-1L+H)=1.90
A is 1,3-diaminopropane.
   gl KNO3 25�C 0.10M U M T
Pd++
                                  1981LIb (27169) 200
```

```
A=1,2-diaminoethane
********************************
                  Unithiol
C3H8O3S3
              H3L
                            CAS 74-61-3 (1271)
2,3-Dimercaptopropanesulfonic acid; HS.CH2.CH(SH).CH2.SO3H
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      EMF KNO3 ? 1.00M U B2=21.1
                                    1969S0a (27797) 201
Medium: HNO3
*********************************
                            CAS 30211-73-5 (7117)
Glycylaminomethylphosphonic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
-----
Pd++
                          B2=26.27
    gl KNO3 25�C 0.10M C
                                    1997BLc (27968) 202
                          B(PdH-2L2)=10.99
                          B(PdLC1)=20.54
                          B(PdH-1LC1)=16.74
                          B(PdH-2L)=8.67
B(PdH-3L)=-1.51
Pd++
   gl KCl 25�C 0.10M U
                                    1996BRa (27969) 203
                          K(Pd+L+2C1+H)=24.48
                          K(Pd+2L)=27.50
                          K(Pd+L+C1)=21.35
**********************************
                            CAS 78-90-0 (2905)
C3H10N2
1,2-Diaminopropane; CH3.CH(NH2)CH2.NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                    1999SSd (28170) 204
      gl NaNO3 25�C 0.10M U
Pd++
                          *K(PdL) = -5.62
                          *K(Pd(OH)L)=-9.35
************************
               L
                  Propanediamine CAS 109-76-2 (123)
1,3-Diaminopropane; H2N.CH2.CH2.CH2.NH2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 37♦C 0.16M M
                                    1998ESa (28319) 205
                          *K(PdL(H20)2)=-5.45
                          *B2(PdL(H2O)2)=-14.58
*************************
C3H11N3
                             CAS 21292-99-6 (2975)
Propane-1,2,3-triamine; H2N.CH2.CH(NH2).CH2.NH2
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M C
                                        1996SEb (28489) 206
                            *K(PdL) = -5.30
                            *B2(PdL) = -16.67
                            K(PdL+Gly)=6.16
                            K(PdL+Ala)=6.38
K(Gly+H)=9.45; K(Ala+H)=9.59. Also K(PdL+Pro)=6.58, K(PdL+methionine)=6.09,
K(PdL+imidazole)=4.22, K(PdL+inosine)=3.96, K(PdL+guanosine)=4.43.
______
Pd++ gl NaNO3 25%C 0.10M C
                                        1996SEb (28490) 207
                            K(PdL+cysteine)=5.79
                            K(PdL+H+cysteine)=14.45
                            K(PdL+penicillamine)=6.05
                            K(PdL+H+penicillamine)=14.64
k(PdL+His)=8.52, K(PdL+H+His)=15.63, K(PdL+histamine)=8.85, K(PdL+H+hist-
amine)=15.34. Also K(PdL+A=PdL(H-1A)) for A=Gly-Val (-4.43), Leu-Ala (-3.7)
*****************************
        HL 5-Fluorouracil CAS 51-21-8 (4277)
C4H3N2O2F
5-Fluoro-2,4(1H,3H)-pyrimidinedione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                                        1969GKc (28694) 208
Pd++ ISE KNO3 20♦C 0.10M U
                            B(PdC12L2)=21.7
                            K(PdC12L+L)=7.82
**********************************
C4H4N2O2
               HL
                    Uracil
                               CAS 66-22-8 (412)
2,4-Dihydroxypyrimidone, 2,4-Pyrimidinedione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25◊C 0.10M C
                                       2002MSb (28863) 209
                            K(PdA+L)=8.35
                            K(PdA+2L)=14.88
                            K(PdA+B+L)=16.18
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.
-----
Pd++ gl NaNO3 25♦C 0.10M C
                                        2001SHc (28864) 210
                            K(Pd(bpy)(H20)2+L)=10.96
                            K(Pd(bpy)(H20)2+H+L)=13.50
                            K(Pd(bpy)(H20)2+2L)=17.17
                            K(Pd(bpy)(H20)2+2L+H)=22.15
                          -----
Pd++ gl NaNO3 25♦C 0.10M U
                                       1999SSd (28865) 211
                            K(Pd(pn)+L)=8.74
                            K(Pd(pn)+2L)=15.43
pn is 1,2-diaminopropane. For nucleotide protonation, K1=9.13.
    gl NaNO3 37�C 0.16M M
                                        1998ESa (28866) 212
Pd++
```

K(PdA+L)=8.08K(PdA+2L)=13.92

A is 1,3-diaminopropane. gl KNO3 25**¢**C 0.10M U 1981LIa (28867) 213 Pd++ K(Pd(en)(H20)2+L)=8.59K(Pd(en)(H20)L+L)=6.79K(Pd(dien)(H20)+L)=8.01****************************** Methimazole CAS 60-56-0 (1824) N-Methyl-2-mercaptoimidazole; C3H2N2(CH3).SH -----Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Pd++ sp KNO3 25**¢**C 0.50M C K1=7.43 B2=11.30 1977LWa (29666) 214 ****************************** CAS 110-15-6 (112) Succinic acid H2L 1,4-Butanedioic acid; HOOC.CH2.CH2.COOH ______ Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ kin NaClO4 25�C 1.00M U H K1=4.03 Pd++ 1997SEa (30025) 215 K(Pd+HL=PdL+H)=0.08DH(Pd+HL=PdL+H)=10 kJ mol-1, DS(Pd+HL=PdL+H)=36 J K-1 mol-1 ******************************** Me-Malonic Acid CAS 516-15-2 (816) H2L Methylpropanedioic acid; HOOC.CH(CH3).COOH ______ Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ gl NaClO4 37♦C 0.15M C 2003TMb (30134) 216 K(Pd(en)+L)=5.68************************************ Malic acid CAS 617-48-1 (393) 2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH2.CH(OH).COOH ______ Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ K1 = 3.65kin NaClO4 25�C 1.00M U H 1997SEa (30699) 217 K(Pd+HL=PdL+H)=0.54 $DH(Pd+HL=PdL+H)=-3.5 \text{ kJ mol}-1, DS(Pd+HL=PdL+H)=-1 J K-1 mol}-1$ ******************************* Diglycolic acid CAS 110-99-6 (243) C4H605 Di(carboxy)methyl ether, 2,2'-Oxydiethanoic acid; HOOC.CH2.O.CH2.COOH ______ Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo K1=3.46 kin NaClO4 25�C 1.00M U H 1997SEa (30914) 218 K(Pd+HL=PdL+H)=0.64DH(Pd+HL=PdL+H)=-12 kJ mol-1, DS(Pd+HL=PdL+H)=-27 J K-1 mol-1

******** C4H7NO4 Aminobutan			H2L	Aspa	art:	ic acio	d CAS		******* 5-84-8 (******	
Metal	Mtd M	ledium	Temp	Conc	Cal	Flags	Lg K va	alue	es	Reference	ExptNo	
Pd++	gl N	aCl	37 ∲ C	0.10M	С	Ε	B(Pd(bp	y)L)	200)=13.91	3GZa (319:	19) 219	
Pd++	gl n	one	25 � C	0.0	U	ŀ	((PdL2+I ((PdHL2- ((PdC14-	+Ĥ)=	4.52 =3.68	'9FWa (3192 -4Cl)=11.3	20) 220	
Pd++	•									1972SSe	•	221
Pd++					U			55	B2=18.25			222
Pd++ *******					U	ŀ	((Pd+H2I ((PdHL+I	L=Po	197 dHL+H)=10 =Pd(HL)2+	H)=7.76	·	
C4H7NO4 Iminodieth			H2L	IDA					12-73-4			
Metal	Mtd M	ledium	Temp	Conc (Cal	Flags	Lg K va	alue	es	Reference	ExptNo	
Pd++		aC104				ŀ	K1=17. ((Pd+HL) ((PdL+2I)=9	.0	1976AMa	(32336)	224
Pd++								2	B2=14.87	' 1975CGc	(32337)	225
Pd++ ******							K1=9.6					226
C4H8 But-1-ene;			L						06-98-9			
Metal			-			_	Lg K va			Reference	=	
Pd++						ΙM				66PMb (324		
Medium: Li K(PdCl4+L= ******	PdC12(H20)L+	-2C1)=	-0.5	I=2	1.13(I=), 0.1(=3), 1.: (I=3), (13(1 0.6	I=4) 5(I=4), 0	.95(I=5)	*****	
C4H8N2O2 2,3-Butane	dione	dioxim	H2L ne, Di		-				5-45-4 (DH).(C:NO	•		
Metal	Mtd M	 ledium 	Temp	Conc (cal	Flags	Lg K va	alue	 es 	Reference	ExptNo	

```
Pd++ dis NaClO4 25◊C 1.0M U
                        B2=34.1 1963BDa (32547) 228
                         K(PdL2+OH)=5.50
_____
     sol oth/un 25�C
                 ? U
                                  1958BBb (32548) 229
                        Ks2 = -3.30
*************************
                 Asparagine CAS 70-47-3 (17)
C4H8N2O3
             HL
2-Aminobutanedioic acid 4-amide; H2N.CH(CH2.CO.NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
                       М
Pd++ gl NaNO3 25♦C 0.10M U
                                   1999SSd (32720) 230
                         K(Pd(pn)+L)=12.79
                         K(Pd(pn)+L=PdH-1(pn)L+H)=6.38
pn is 1,2-diaminopropane. For amide protonation, K1=8.55.
                             1998ESa (32721) 231
Pd++ gl NaNO3 37©C 0.16M M
                         K(PdA+L)=10.19
                         K(PdAH-1L+H)=3.33
A is 1,3-diaminopropane.
 .-----
Pd++ gl KNO3 25♦C 0.50M U
                                  1977LIa (32722) 232
                         K(Pd(en)+L)=10.46
                         K(Pd(en)H-1L+H)=6.46
  Pd++ gl NaClO4 25♦C 3.00M C
                                  1974GWa (32723) 233
                         B(PdHL)=12.11
                         B(PdH-1L)=9.1
                         B(PdHLC1)=18.29
                         B(PdH-1LC1)=17.0
***********************
                           CAS 556-50-3 (54)
              HL
                 Glv-Glv
Glycyl-glycine; H2N.CH2.CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl KNO3 25%C 0.20M C
                                   1999AJa (33047) 234
                         B(PdLC1)=18.08
                         B(PdH-1LC1)=15.56
                         B(PdH-2L)=4.89
                         B(PdH-1L2)=19.30
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-2L2)=13.90; B(PdH-1L)=13.57.
                       -----
Pd++ gl NaNO3 25♦C 0.10M U
                       М
                                   1999SSd (33048) 235
                         K(Pd(pn)+L)=9.41
                         K(Pd(pn)+L=PdH-1(pn)L+H)=6.02
pn is 1,2-diaminopropane. For aminoacid protonation, K1=7.97.
     Pd++ gl NaNO3 370C 0.16M M
                                   1998ESa (33049) 236
                         K(PdA+L)=7.53
```

```
A is 1,3-diaminopropane.
                 _____
       gl KNO3
Pd++
              25♦C 0.10M U
                                     1977LIb (33050) 237
                          K(Pd(en)+L)=9.60
                          K(Pd(en)L=PdH-1(en)L+H)=-3.76
********************************
                               (1882)
Tetramethylenesulfoxide;
       Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
       sp alc/w 25♦C 95% U
Pd++
                                     1982CCa (33192) 238
                          K(PdC14+L=PdLC13+C1)=1.7
*******************************
                             CAS 107-92-6 (1118)
n-Butanoic acid; CH3.CH2.CH2.COOH
    Mtd Medium Temp Conc Cal Flags Lg K values
-----
Pd++
      kin NaClO4 25�C 1.00M U H
                           K1=4.38
                                     1997SEa (33346) 239
                          K(Pd+HL=PdL+H)=-0.29
DH(Pd+HL=PdL+H)=-14.6 kJ mol-1, DS(Pd+HL=PdL+H)=-55 J K-1 mol-1
********************************
                             CAS 594-61-6 (81)
C4H803
              HL
2-Hydroxy-2-methylpropanoic acid; (CH3)2C(OH).COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                           K1=4.05
Pd++
       kin NaClO4 25�C 1.00M U H
                                     1997SEa (33504) 240
                          K(Pd+HL=PdL+H)=1.88
DH(Pd+HL=PdL+H)=-8.1 \text{ kJ mol}-1, DS(Pd+HL=PdL+H)=-21 \text{ J K}-1 \text{ mol}-1
*********************************
                             CAS 127-19-5 (477)
N,N-Dimethylacetamide; CH3.CO.N(CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
Pd++
       sp alc/w 25♦C 100% U
                                     1994PAa (33767) 241
                          K(Pd3A3CO+L)=-1.15
Medium: MeOH. A=Bis(diphenylphosphino)methane
******************************
C4H9N02
                             CAS 623-33-6 (3011)
Glycine ethyl ester; H2N.CH2.CO.OCH2CH3
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
                        M K1=6.01
       gl KNO3 25¢C 0.20M M
                                     1987SKb (34002) 242
                          K(Pd(dien)+L)=2.81
```

```
gl KNO3 25 C 0.50M U
Pd++
                                   1983LIb (34003) 243
                         K(Pd(en)+L)=7.12
*****************************
              HL
                  Dimethylglycine CAS 1118-68-9 (88)
N,N-Dimethyl-2-aminoethanoic acid; (CH3)2N.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25�C 0.50M U
                                   1978LIa (34031) 244
                         K(Pd(en)+L)=11.02
******************************
                 Methylcysteine CAS 1187-84-4 (84)
C4H9N02S
              HL
2-Amino-3-methylmercaptopropanoic acid; H2N.CH(CH2.S.CH3)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
Pd++ gl NaClO4 25♦C 0.10M M
                                   2002BSa (34101) 245
                         *K(PdL)=-4.13
                         K(2PdL=Pd2H-1L2)=-0.01
                         *B2(PdL)=-15.77
_____
Pd++ gl NaClO4 25�C 1.00M C K1=19.9 B2=36.30 2000SAb (34102) 246
Pd++ gl NaNO3 25♦C 0.10M U M
                                   1999SSd (34103) 247
                         K(Pd(pn)+L)=10.83
pn is 1,2-diaminopropane. For aminoacid protonation, K1=8.65.
______
Pd++
     gl KNO3 25�C 0.50M U
                                   1978LIa (34104) 248
                         K(Pd(en)+L)=9.38
                         K(Pd(en)+HL)=1.18
******************************
                  Threonine
              HL
                            CAS 72-19-5 (48)
2-Amino-3-hydroxybutanoic acid; H2N.CH(CH(OH).CH3)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25¢C 0.10M U M
                                   1999SSd (34319) 249
                         K(Pd(pn)+L)=11.76
                         K(Pd(pn)+L=PdH-1(pn)L+H)=3.83
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.06, B2=11.03.
______
Pd++ gl KNO3 25♦C 0.10M U
                                   1981LIb (34320) 250
                         K(PdA(H20)2+L=PdAL+2H20)=10.96
                         K(PdA(H-1L)+H)=8.05
A=1,2-diaminoethane
*******************************
              HL Homoserine CAS 1927-25-9 (578)
2-Amino-4-hydroxybutanoic acid; HO.CH2.CH2.CH(NH2).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl KNO3 25 C 0.10M U
                                 1981LIb (34357) 251
Pd++
                        K(PdA(H20)2+L=PdAL+2H20)=11.09
                        K(PdA(H-1L)+H)=9.60
A=1,2-diaminoethane
CAS 123-90-0 (3777)
Thiomorpholine, tetrahydro-4H-1,4-thiazine, thiamorpholine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
------
     kin oth/un 25�C 1.00M U
                                 1996SEa (34405) 252
                        K1eff=4.30
Medium: 1.00 M HClO4.
********************************
                          CAS 56123-06-9 (8023)
1,3-Diamino-2-methylenepropane;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25&C 0.50M U K1=13.64 B2=25.27 1975HSb (34490) 253
C4H100S
                           CAS 110-77-0 (3516)
Ethyl-2-hydroxyethyl sulfide, 2-(ethylthio)ethanol; CH3CH2SCH2CH2OH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ kin oth/un 25♦C 1.00M U
                                 1996SEa (34661) 254
                       K1eff=4.45
Medium: 1.00 M HClO4.
********************************
                          CAS 111-48-8 (4275)
3-Thiapentan-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
Pd++ kin oth/un 25♦C 1.00M U
                                 1996SEa (34687) 255
                        K1eff=4.34
Medium: 1.00 M HClO4.
********************************
                 Diethylamine CAS 109-89-7 (1331)
Diethylamine, 3-azapentane; (C2H5)2NH
     -----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ sp non-aq 25♦C 100% U
                                 1994CAa (34820) 256
                        K(PdAB+2L=PdAL2+B)=3.14
A:C3H5 (n(3)-allyl); B:N,N'-di(4-methoxyphenyl)-1,2-diaminoethane.
Additional data for other allyl and amino derivatives.
********************************
```

```
Dimeen CAS 110-70-3 (125)
C4H12N2
N,N'-Dimethyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH.CH3
______
       Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaNO3 25◊C 0.10M C
                                         2001MSb (35422) 257
                             *K(PdL(H20)2)=-5.54
                             *K(PdL(OH)H2O)=-9.47
                             K(2PdL=Pd2H-2L2+2H)=-7.90
Pd++ gl NaNO3 25¢C 0.10M C
                                         2001MSb (35423) 258
                             K(PdL+gly)=11.79
                             K(PdL+ala)=10.89
                             K(PdL+pro)=11.14
                             K(PdL+val)=11.59
Also data for phe, met, imidazole, ser, his, histamine, orn, lys, asp and
glu. Amino acid protonation constants also reported.
______
Pd++ gl NaNO3 25♦C 0.10M C
                                         2001MSb (35424) 259
                             K(PdL+A)=16.31
                             K(PdL+B)=15.12
                             K(PdL+C)=16.31
                             K(PdL+D)=7.64
K(PdL+E)=6.46. HA=mercaptoethylamine, H3B=glutathione, H2C=cysteine,
D=methylamine, E=ethanolamine. Protonation constants also reported.
_____
Pd++ gl NaNO3 25♦C 0.10M C
                                         2001MSb (35425) 260
                             K(PdL+A)=6.38
                             K(PdL+B)=6.28
                             K(PdL+C)=4.35
                             K(PdL+D)=4.09
Acids: H2A=oxalic, H2B=malonic, H2C=succinic, H2D=adipic. Also data for
1,1-cyclobutane dicarboxylic & fumaric. Protonation constants reported.
______
   gl NaNO3 25�C 0.10M C
                                         2001MSb (35426) 261
Pd++
                             K(PdL+A)=8.70
                             K(PdL+B)=8.35
                             K(PdL+C)=8.56
                             K(PdL+D)=8.75
HA=uridine, HB=uracil, HC=thymine, HD=thymidine. Also data for
inosine, IMP and adenine. Protonation constants are reported.
______
Pd++
      gl NaNO3 25�C 0.10M C
                                         2001MSb (35427) 262
                             K(PdL+A)=7.40
                             K(PdL+B)=10.73
                             K(PdL+C)=12.31
A=glycinamide, HB=glutamine, HC=aspargine.
Protonation constants are reported.
______
Pd++ gl NaNO3 25�C 0.10M C M
                                         2001MSb (35428) 263
```

```
K(PdL+A)=7.75
                           K(PdL+B)=7.63
                           K(PdL+C)=8.36
HA=glycylglycine, HB=glycylalanine, HC=glycylleucine.
Protonation constants are reported.
*************************************
             L Dien
C4H13N3
                              CAS 111-40-0 (584)
1,4,7-Triazaheptane, 2,2'Iminobis(ethylamine), diethylenetriamine;
NH2.(CH2)2.NH.(CH2)2.NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ gl KNO3 25�C ? M
                                      1988SKa (35805) 264
                           B(PdH-1L)=-8.68
                           B(PdL(Butyrate))=2.58
                           B(PdL(pyridine))=4.04
-----
      gl NaCl04 25�C 1.00M C M K1=32.6 B2=40.40 1986ANa (35806) 265
Ternary complexes with Cl- and Br-. A combined pH-metric and spec. study.
______
Pd++ gl NaClO4 25♦C 0.50M C I
                                      1981GMf (35807) 266
                           *K(PdL)=-7.589
                           K(PdL+PdLOH=Pd2L2OH)=2.19
In 0.5 NaNO3: *K(PdL)=-7.543, K(PdL+PdLOH)=2.10
______
    gl NaNO3 25�C 1.00M U M K1=34 1969RJa (35808) 267
                          K(PdL+NH3)=6.9
*******************************
                L Pyridine CAS 110-86-1 (31)
Pyridine, Azine;
______
                                     Reference ExptNo
      Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ sp non-aq 25♦C 100% U
                                      1994CVa (36663) 268
                           K(PdAB+2L=PdAL2+B)=1.09
                           K(PdAC+2L=PdAL2+C)=-1.39
Medium: CHCl3. A:n3-allyl; B:4-MeOC6H4.N=CH.CH=N.C6H4OMe; C:4-MeOC6H4.N=
C(Me).C(Me)=N.C6H4OMe. Also data for 4-substituted pyridines.
______
Pd++ sp NaClO4 25¢C 1.0M U I M K1=8.4 B2=16.10 1986AHb (36664) 269
                           K3=6.6
                           K4=5.9
Ternary complexes with 2,2'-bipyridine and 1,10-phenanthroline.
In 0.1M NaCH3SO3, K1=8.5, K2=7.5, K3=6.3, K4=5.7.
______
Pd++
     sp NaClO4 25�C 1.0M U M
                                      1984ETa (36665) 270
                           K(Pd(en)Cl2+L=PdenLCl+Cl)=4.31
                           K(Pd(en)LC1+L=PdenL2+C1)=3.15
Pd++ sp none 25♦C 0.0 C
                                      1975PJb (36666) 271
```

```
K(Pd(phen)+L)=7.02
                               K(Pd(phen)L+L)=6.18
*******************************
C5H5N5
                     Adenine
                                  CAS 73-24-5 (237)
6-Aminopurine; H2N.C5H3N4
                  _____
       Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl NaNO3 25♦C 0.10M C
                                           2001SHc (36975) 272
                               K(Pd(bpy)(H20)2+L)=11.95
                               K(Pd(bpy)(H20)2+H+L)=15.97
                               K(Pd(bpy)(H20)2+2L)=16.59
                               K(Pd(bpy)(H20)2+2L+H)=25.76
K(Pd(bpy)(H20)2+2L+2H)=30.25.
Pd++
        gl NaNO3 25¢C 0.10M U
                                           1999SSd (36976) 273
                               K(Pd(pn)+L)=11.14
pn is 1,2-diaminopropane. For nucleotide protonation, K1=9.59, B2=13.77.
Pd++
        gl NaNO3 37♦C 0.16M M
                                           1998ESa (36977) 274
                               K(PdA+L)=10.83
                               K(PdA+2L)=14.62
A is 1,3-diaminopropane.
*************************************
C5H6N2O2
                 HL
                      1-Methyluracil CAS 615-77-0 (7923)
1-Methyl-2,4(1H,3H)-pyrimidinedione;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ gl KNO3 25�C 0.20M C
                            М
                                           2003NFa (37222) 275
                               K(PdA+L)=9.26
A is bis-((2-pyridyl)methyl)amine
                25♦C 0.20M C
Pd++
    gl KNO3
                                           2001NSa (37223) 276
                               K(Pd(en)+L)=9.07
                               K(Pd(en)+2L)=14.88
                               *K(Pd(en)(H20)L)=-8.53
K(Pd(en)(H20)+L=Pd(en)(OH)L+H)=0.54,
K(2Pd(en)(H20)2+2L=Pd2(en)2(OH)L2+H)=12.58
        gl KNO3 25 C 0.20M C
Pd++
                                           2001NSa (37224) 277
                               K(Pd(pic)+L)=9.57
                               K(Pd(pic)+2L)=15.73
                               *K(Pd(pic)(H20)L)=-7.73
K(Pd(pic)(H20)+L=Pd(pic)(OH)L+H)=1.84,
K(2Pd(pic)(H20)2+2L=Pd2(pic)2(OH)L2+H)=14.58. Hpic=picric acid.
    gl KNO3 25�C 0.20M C K1=7.51
                                           2000NFa (37225) 278
**************************
C5H6N2O2
                      Thymine
                                  CAS 65-71-4 (413)
                 HL
```

```
2,4-Dihydroxy-5-methylpyrimidine; C4HN2(CH3)(OH)2
  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25◊C 0.10M C
                                          2002MSb (37282) 279
                              K(PdA+L)=8.56
                              K(PdA+2L)=15.14
                              K(PdA+B+L)=15.71
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.
Pd++ gl NaNO3 25♦C 0.10M U
                                          1999SSd (37283) 280
                              K(Pd(pn)+L)=8.90
                              K(Pd(pn)+2L)=15.80
pn is 1,2-diaminopropane. For nucleotide protonation, K1=9.59.
Pd++
        gl NaNO3 37¢C 0.16M M
                            М
                                          1998ESa (37284) 281
                              K(PdA+L)=8.37
                              K(PdA+2L)=14.60
A is 1,3-diaminopropane.
Pd++ gl KNO3 25♦C 0.20M C
                                          1997WKa (37285) 282
                              K(PdAC1+L=PdAL+C1)=6.97
PdA is [PdH-1(gly-met)].
HL
                     1-MeCytosine CAS 1122-47-0 (2268)
C5H7N3O
1-Methyl-4-aminopyrimidin-2-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25◊C 0.20M C
                            Μ
                                          2003NFa (37588) 283
                              K(PdA+L)=5.84
                              K(2PdA+L=Pd2A2H-1L+H)=1.76
A is bis-((2-pyridyl)methyl)amine
       gl KNO3
                25♦C 0.20M C
                                          2001NSa (37589) 284
Pd++
                              K(Pd(en)+L)=6.13
                              K(Pd(en)+2L)=11.44
                              *K(Pd(en)(H20)L)=-5.69
K(Pd(en)(H20)+L=Pd(en)(OH)L+H)=0.44,
K(2Pd(en)(H20)2+2L=Pd2(en)2(OH)L2+H)=10.41
Pd++ gl KNO3 25♦C 0.20M C
                                          2001NSa (37590) 285
                              K(Pd(pic)+L)=8.07
                              K(Pd(pic)+2L)=13.35
                              *K(Pd(pic)(H20)L)=-5.22
K(Pd(pic)(H20)+L=Pd(pic)(OH)L+H)=2.85,
K(2Pd(pic)(H20)2+2L=Pd2(pic)2(OH)L2+H)=14.06. Hpic=picric acid.
______
        cal KNO3 25�C 0.20M C
                           HM
                                          2000NFa (37591) 286
DH(Pd(dien)+L)=-38.5 \text{ kJ mol}-1; DH(Pd(gly-ala)+L)=-33.1,
```

```
DH(Pd(gly-met)+L)=-32.8.
Pd++ gl KNO3 25♦C 0.20M C
                                  1997WKa (37592) 287
                        K(PdAC1+L=PdAL+C1)=5.04
PdA is [PdH-1(gly-Met)].
C5H8N2OS
             H2L
                             (6682)
5,5-Dimethyl-2-thioxoimidazolidin-4-one;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                         B2=22.96
Pd++ gl NaCl 25◊C 0.10M C
                                  1993CCa (37688) 288
                        B(PdH2L2)=44.10
                         B(PdHL2)=34.58
                         B(Pd2HL2)=45.46
                         B(Pd2L2)=38.31
B(Pd2H-1L2)=28.34
*******************************
                 Acetylacetone CAS 123-54-6 (164)
Pentane-2,4-dione; CH3.CO.CH2.CO.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl oth/un 200C 0.0 U T H K1=16.7 1957DBa (38056) 289
DH(K1)=-75 kJ mol-1, DS=63. 30 C: K1=16.2, K2=10.9; 40 C: K1=15.4, K2=10.5
-----
Pd++ gl diox/w 25♦C 50% U K1=8.71 B2=16.84 1949MMa (38057) 290
************************
                           CAS 595-46-0 (1144)
Dimethylmalonic acid; HOOC.C(CH3)2.COOH
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaClO4 37♦C 0.15M C
                                  2003TMb (38216) 291
                        K(Pd(en)+L)=5.22
*****************************
             HL Proline
                           CAS 147-85-3 (44)
Pyrrolidine-2-carboxylic acid; C4H8N.COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
Pd++ gl NaNO3 25�C 0.10M U M
                                  1999SSd (38634) 292
                         K(Pd(pn)+L)=11.55
pn is 1,2-diaminopropane. For aminoacid protonation, K1=10.52, B2=12.03.
______
Pd++
      gl NaNO3 37¢C 0.16M M
                                  1998ESa (38635) 293
                        K(PdA+L)=10.48
A is 1,3-diaminopropane.
Pd++ gl KNO3 25�C 0.50M U
                                  1978LIa (38636) 294
```

K(Pd(en)+L)=12.16

```
______
Pd++ gl KNO3 20♦C 0.5M U K1=10.26 B2=19.10 1974KHb (38637) 295
********************************
                Hydroxyproline CAS 51-35-4 (416)
C5H9N03
4-Hydroxy-2-pyrrolidinecarboxylic acid; C4H7N(OH)(COOH)
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl KNO3 25♦C 0.10M U
                                1981LIb (38746) 296
                       K(PdA(H20)2+L=PdAL+2H20)=11.47
                       K(PdA(H-1L)+H)=10.82
A=1,2-diaminoethane
______
Pd++ gl KNO3 20♦C 0.5M U K1=9.88 B2=19.45 1974KHb (38747) 297
****************************
           H2L Glutamic acid
                         CAS 56-86-0 (22)
C5H9N04
2-Aminopentanedioic acid; H2N.CH(CH2.CH2.COOH)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       B2=38.0
    gl KCl
            25♦C 0.1M U
Pd++
                                2004AEa (39116) 298
                       K(Pd+HL)=46.7
                       K(Pd+2H2L+2C1)=54.2
                       K(Pd+2L+OH)=30.1
                       K(P2d+L+2C1)=41.9
______
    gl none 25♦C 0.0 U
                                1979FWa (39117) 299
Pd++
                       K(PdL2+H)=4.76
                       K(PdHL2+H)=4.06
                       K(PdC14+2HL=PdH2L2+4C1)=10.0
  -----
Pd++ gl NaClO4 25♦C 0.10M U K1=10.38 B2=17.84 1972SSe (39118) 300
***************************
            H2L MIDA
                         CAS 4408-64-4 (190)
C5H9N04
N-Methyliminodiethanoic acid; CH3.N(CH2.COOH)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           20♦C 0.10M U B2=24.88
     sp KCl
                                1987KUa (39277) 301
**********************************
3-(Carboxymethyl)thio-L-alanine; HOOC.CH2.S.CH2.CH(NH2)COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    kin NaClO4 25�C 1.0M U
                                1998VTa (39312) 302
                       K(Pd+HL=PdL+H)=1.82
                       K(Pd+H2L=PdHL+H)=2.43
*********************************
```

```
L Histamine CAS 51-45-6 (103)
C5H9N3
4(5)-(2'-Aminoethyl)imidazole; C3H3N2.CH2.CH2.NH2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Pd++ gl NaNO3 25¢C 0.10M U M
                                    1999SSd (39543) 303
                          K(Pd(pn)+L)=13.22
pn is 1,2-diaminopropane. For amine protonation, K1=9.59, B2=15.65.
-----
      gl NaNO3 37©C 0.16M M
                                    1998ESa (39544) 304
                          K(PdA+L)=12.56
A is 1,3-diaminopropane.
***********************************
             HL
                 Glutamine
                            CAS 56-85-9 (18)
C5H10N2O3
2-Aminopentanedioic acid 5-amide; H2N.CH(CH2.CH2.CO.NH2)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M U
                                    1999SSd (39831) 305
                          K(Pd(pn)+L)=11.02
                          K(Pd(pn)+L=PdH-1(pn)L+H)=2.12
pn is 1,2-diaminopropane. For amide protonation, K1=8.98.
______
Pd++ gl NaNO3 370C 0.16M M
                                    1998ESa (39832) 306
                          K(PdA+L)=9.29
                          K(PdA+L=PdAH-1L+H)=-0.43
A is 1,3-diaminopropane.
      gl KCl 25♦C 0.50M U
Pd++
                                    1977LIa (39833) 307
                          K(Pd(en)+L)=10.8
                          *K(Pd(en)L)=-9.03
**********************************
C5H10N2O3
                  Ala-Gly
                            CAS 687-69-4 (55)
Alanyl-glycine; H2N.CH(CH3).CO.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
                                    1999AJa (39893) 308
Pd++ gl KNO3 25♦C 0.20M C
                          B(PdLC1)=17.96
                          B(PdH-1LC1)=15.09
                          B(PdH-2L)=4.38
                          B(PdH-1L2)=18.70
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-2L2)=13.37; B(PdH-1L)=13.10.
*********************************
              HL
                  Gly-Ala
                            CAS 3695-73-6 (56)
Glycyl-alanine; H2N.CH2.CO.NH.CH(CH3).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.20M C
                                    1999AJa (40005) 309
```

```
B(PdLC1)=18.00
B(PdH-1LC1)=16.01
B(PdH-2L)=4.80
B(PdH-1L2)=19.80
```

```
B(PdH-1L2)=19.80
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-1L)=14.02.
Pd++
       gl NaNO3 25 C 0.10M U
                         Μ
                                      1999SSd (40006) 310
                            K(Pd(pn)+L)=8.17
                            K(Pd(pn)+L=PdH-1(pn)L+H)=3.69
pn is 1,2-diaminopropane. For aminoacid protonation, K1=8.04.
*********************
                   Gly-b-Ala
C5H10N2O3
               HL
                             CAS 7536-21-2 (9057)
Glycyl-beta-alanine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
                           K1=17.11
      gl oth/un 25♦C 0.20M C
                                      2003AMb (40010) 311
                            K(PdH-1L)=14.93
                            K(PdH-2L)=6.00
                            K(PdH-1L2)=20.60
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*******************************
C5H10N2O3
                   B-Ala-Gly
                              CAS 2672-88-0 (4323)
               HL
beta-Alanylglycine; H2N.CH2.CH2.CO.NH.CH2.COOH
------
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                           K1=14.12
     gl oth/un 25♦C 0.20M C
                                      2003AMb (40051) 312
Pd++
                           K(PdH-1L)=11.09
                            K(PdH-2L)=2.38
                           K(PdH-1L2)=17.43
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
******************************
                              CAS 54376-69-1 (8335)
N,N'-Carbonylbis(2-aminoacetamide);
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
       gl NaClO4 25&C 0.10M U TIH K1=10.75 B2=17.25 1980SAc (40137) 313
Data for 0.075-0.15 M. At I=0, K1=11.15, K2=6.70. Also data for 30 C.
DH and DS values.
******************************
                               CAS 110-50-9 (591)
C5H100S2
               HL
(Butoxy)dithiomethanoic acid; CH3.CH2.CH2.CH20.CSSH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      dis oth/un 25♦C 0.25M U B2=>24
                                      1982SAa (40163) 314
********************************
                              CAS 110-89-4 (105)
C5H11N
                   Piperidine
```

```
Perhydropyridine; cyclo(-CH2.CH2.CH2.NH.CH2.CH2-) C5H11N
------
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp non-ag 25♦C 100% U
                                    1994CVa (40452) 315
                         K(PdAB+2L=PdAL2+B)=3.14
                         K(PdAC+2L=PdAL2+C)=0.28
Medium: CHCl3. A:n3-allyl; B:4-MeOC6H4.N=CH.CH=N.C6H4OMe; C:4-MeOC6H4.N=
C(Me).C(Me)=N.C6H4OMe. Also data for L=morpholine, NHEt2, N-methylaniline.
***********************************
                  Valine
                             CAS 72-18-4 (43)
2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M U
                                    1999SSd (40742) 316
                         K(Pd(pn)+L)=11.36
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.57, B2=11.70.
                        M
Pd++
      gl NaNO3 37©C 0.16M M
                                    1998ESa (40743) 317
                         K(PdA+L)=9.55
A is 1,3-diaminopropane.
______
Pd++ gl KNO3 20¢C 0.5M U K1=9.62 B2=17.76 1974KHb (40744) 318
********************************
                              (8054)
C5H11N02
Alanine ethyl ester;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       M K1=5.15
      gl KNO3 25�C 0.20M M
                                    1987SKb (40866) 319
                         K(Pd(dien)+L)=3.92
************************************
                  Methionine CAS 63-68-3 (42)
2-Amino-4-(methylthio)butanoic acid; H2N.CH(CH2.CH2.S.CH3)COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaClO4 25�C 1.00M C
                          K1=16.8 B2=34.30 2000SAb (41115) 320
Pd++ gl NaNO3 250C 0.10M U M
                                    1999SSd (41116) 321
                         K(Pd(pn)+L)=10.37
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.10, B2=11.08.
-----
                       Μ
    gl NaNO3 37�C 0.16M M
                                    1998ESa (41117) 322
                         K(PdA+L)=8.83
A is 1,3-diaminopropane.
Pd++ gl KNO3 25◊C 0.50M U
                                    1978LIa (41118) 323
                         K(Pd(en)+L)=9.14
```

```
K(Pd(en)+HL)=0.74
*********************************
              H2L
                  Penicillamine
                             CAS 52-66-4 (350)
DL-2-Amino-3-mercapto-3-methylbutanoic acid; (CH3)2C(SH)CH(NH2)COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25�C 1.00M C
Pd++
                          B2 = 48.2
                                    2000SAb (41278) 324
                          K(Pd+HL)=27.3
                          K(Pd+2HL)=44.8
******************************
C5H11N03
                              (8128)
Serine ethyl ester;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
    gl KNO3 25�C 0.20M M
                                    1987SKb (41312) 325
                         K(Pd(dien)+L)=4.43
****************************
                            CAS 147-84-2 (2126)
C5H11NS2
Diethyldithiocarbamic acid; (CH3.CH2)2N.CSSH
  -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      dis oth/un ? ? U M B2=64.9
                                    1969BHd (41367) 326
                        B(PdLC1)=44.6
______
Pd++ sp non-aq ? 100% U M
                                    1968SRg (41368) 327
                         K(Pd(HA)2+2HL=PdL2+2H2A)=1.6
Medium: CCl4. H2A=dithizone
********************************
              HL
                 Ornithine
                            CAS 1069-31-4 (46)
2,5-Diaminopentanoic acid; H2N.CH2.CH2.CH2.CH(NH2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Pd++ gl NaNO3 25�C 0.10M U M
                                    1999SSd (41582) 328
                          K(Pd(pn)+L)=13.65
                          K(Pd(pn)+H+L)=19.86
pn is 1,2-diaminopropane. For aminoacid protonation, K1=10.58, B2=19.43.
______
Pd++ gl NaNO3 37♦C 0.16M M
                                    1998ESa (41583) 329
                          K(PdA+L)=11.58
                          K(PdA+H+L)=18.56
A is 1,3-diaminopropane.
********************************
              HL
                  Met-hydroxamic CAS 19253-87-3 (5992)
2-Amino-4-(methylthio)butanehydroxamic acid, Methionine hydrox.a.;
CH3.S.CH2.CH2.CH(NH2).CO.NHOH
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KCl
             25♦C 0.15M U
                          K1=13.230 B2=23.333 1990MSa (41607) 330
                          B(PdL(GlyGly))=21.058
                          B(PdHL(GlvGlv))=24.370
                          B(Pd(GlyGly))=9.155
*******************************
                              (1866)
cis-3,5-Diaminopiperidine; C5H9N(NH2)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
-----
Pd++
     gl NaClO4 20�C 0.10M U
                                    1979MSa (41795) 331
                         K(PdL2+H)=6.35
                          K(PdHL2+H)=4.16
pK's for the other isomer of PdL2
together with X-ray structure
*************************************
                            CAS 88-89-1 (593)
                 Picric acid
2,4,6-Trinitrophenol; HO.C6H2(NO2)3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl KNO3 25♦C 0.20M C
                                    2001NSa (42142) 332
                          *K(PdL(H20)2)=-5.00
                          *B2(PdL(H20)2)=-13.79
K(2PdL(H2O)2=Pd2(OH)L2+H)=-2.28, K(2PdL(H2O)2=Pd2(OH)L2+2H)=-6.59
********************************
                              (2023)
2,4-Dinitroso-6-sulfonoresorcinol; (HO)2.C6H(N:O)2(SO3H)
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp none 25♦C 0.0 U K1=4.2 B2=8.3 1980MGa (42269) 333
**********************************
C6H5N02
                  Nitrobenzene CAS 98-95-3 (3085)
Nitrobenzene; C6H5.NO2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++
     sp alc/w 25♦C 100% U
                        М
                                    1994PAa (42701) 334
                         K(Pd3A3C0+L)=0.24
Medium: MeOH. A=Bis(diphenylphosphino)methane
****************************
C6H5N02S
                              (6876)
             H2L
2-Mercaptopyridine-3-carboxylic acid;
    Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
    sp alc/w 25�C 40% C
Pd++
                                    1996ABc (42708) 335
```

K(Pd+HL)=16.10 K(Pd+H2L)=8.75 K(Pd+H3L=PdH2L+H)=3.05 *K(PdH2L)=-3.15

Medium: 40% v/v EtOH/H2O, 0.10 M NaClO4. ***********************************							
C6H6 Benzene, c	yclohexatri	L ene;	Benzen	e			(2143)
Metal	Mtd Medium	Temp	Conc Cal				Reference ExptNo
Pd++	sp alc/w	25 ∲ C	100% U	м К(Р	d3A3C0+L		994PAa (43169) 336
<pre>Medium: MeOH. A=Bis(diphenylphosphino)methane ************************************</pre>							
C6H6NBr	line; H2N.C	L	3-Brom	oaniline			
Metal	Mtd Medium	Temp	Conc Cal	Flags Lg	K value	S	Reference ExptNo
Pd++	kin NaClO4	- 25 ∲ C	2.00M U				972VGa (43177) 337)3L+H2O)=6.30
Medium: HCl04 ************************************							
C6H6N2O2 L m-Nitroaniline CAS 99-09-2 (464) 3-Nitroaminobenzene; H2N.C6H4.NO2							
Metal	Mtd Medium	Temp	Conc Cal	Flags Lg	K value	S	Reference ExptNo
	kin NaClO4	25 ∲ C	2.00M U	M K(M			972VGa (43389) 338)3L+H20)=5.68
Medium: HCl04 ************************************							
C6H6N2O2 L p-Nitroaniline CAS 100-01-6 (465) 4-Nitroaminobenzene; H2N.C6H4.NO2							
Metal	Mtd Medium	Temp	Conc Cal	Flags Lg	K value:	S	Reference ExptNo
	kin NaClO4			K(P	d(H2O)4+	L=Pd(H	972VGa (43405) 339 20)3L)=4.53 ********
C6H6O2	oxybenzene,	H2L	Catech	ol	CAS 120		
Metal	Mtd Medium	Temp	Conc Cal	Flags Lg	K value:	S	Reference ExptNo
Pd++	sp NaClO4	- 25 ¢ C	0.20M U	K(P	d+H2L=Pdl		981CMb (43807) 340 -2.2
	******			******	******	*****	*******
C6H6O4		HL	Kojic	aciu	CAS 50:	1-20-4	(1000)

```
5-Hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl alc/w RT 20% C I K1=7.44 1989MEb (44236) 341
Medium: 20% v/v MeOH/H2O. Data for 20-50% v/v MeOH/H2O, EtOH/H2O,
acetone/H2O, DMF/H2O and dioxane/H2O.
*******************************
                 Aniline
                           CAS 62-53-3 (583)
              L
Aminobenzene, aniline; C6H5.NH2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ kin NaClO4 25�C 2.00M U
                                   1972VGa (44876) 342
                         K(M(H20)4+L=M(H20)3L+H20)=7.20
Medium: HC104
**********************************
                 9-Methyladenine CAS 700-00-5 (4347)
9-Methyl-6-aminopurine;
 Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ gl KNO3 25¢C 0.20M C
                                   1997WKa (45172) 343
                        K(PdAC1+L=PdAL+C1)=4.33
PdA is [PdH-1(gly-Met)].
******************
           L
                 2-Picolylamine CAS 29722-36-9 (502)
2-(Aminomethyl)pyridine; C5H4N.CH2NH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 25 C 0.10M C
                                   1997RSa (45359) 344
                         *K(PdL(H20)2)=-4.43
                         *B2(PdL(H20)2)=-13.07
*********************************
C6H8N2O2
              HL
                 1-Methylthymine CAS 4160-72-9 (7411)
2,4-Dihydroxy-1,5-dimethylpyrimidine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl KNO3 25�C 0.20M C
                                   2001NSa (45383) 345
                         K(Pd(en)+L)=9.05
                         K(Pd(en)+2L)=14.76
                         *K(Pd(en)(H20)L)=-8.44
K(Pd(en)(H20)+L=Pd(en)(OH)L+H)=0.61,
K(2Pd(en)(H20)2+2L=Pd2(en)2(OH)L2+H)=12.70
Pd++
      gl KNO3 25 C 0.20M C
                                   2001NSa (45384) 346
                         K(Pd(pic)+L)=9.56
                         K(Pd(pic)+2L)=15.40
```

```
*K(Pd(pic)(H20)L)=-8.00
```

```
K(Pd(pic)(H20)+L=Pd(pic)(OH)L+H)=1.56
K(2Pd(pic)(H20)2+2L=Pd2(pic)2(OH)L2+H)=14.30. Hpic=picric acid.
______
Pd++ gl KNO3 25¢C 0.20M C K1=7.71 2000NFa (45385) 347
______
Pd++ gl KNO3 25%C 0.20M C
                                          1997WKa (45386) 348
                             K(PdAC1+L=PdAL+C1)=7.26
PdA is [PdH-1(gly-Met)].
CAS 5445-51-2 (69)
Cyclobutane-1,1-dicarboxylic acid; C4H6(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                            Reference ExptNo
Pd++ gl NaClO4 37♦C 0.15M C
                                          2003TMb (45509) 349
                             K(Pd(en)+L)=6.16
Pd++ gl NaClO4 25�C 0.10M M
                                          2002BSa (45510) 350
                              K(PdA+L)=6.61
                              K(PdA+H+L)=9.69
HA is S-methyl cysteine.
                                          2002MSb (45511) 351
Pd++ gl NaNO3 25♦C 0.10M C
                              K(PdA+L)=7.17
                              K(PdA+H+L)=9.44
A is N,N'-dimethylethylenediamine.
Pd++ gl NaNO3 25◊C 0.10M C
                                          2001SHc (45512) 352
                              K(Pd(bpy)(H20)2+L)=8.45
                              K(Pd(bpy)(H20)2+H+L)=11.37
 .....
Pd++ gl NaNO3 25◊C 0.10M C
                                         2001SHc (45513) 353
                              K(Pd(bpy)(H20)2+L+A)=18.31
                              K(Pd(bpy)(H20)2+L+A+H)=24.76
                              K(Pd(bpy)(H20)2+L+A+2H)=27.05
HA is uracil.
Pd++ gl NaNO3 25�C 0.10M C
                                          2001SHc (45514) 354
                              K(Pd(bpy)(H20)2+L+A)=20.14
                              K(Pd(bpy)(H20)2+L+A+H)=26.74
                              K(Pd(bpy)(H20)2+L+A+2H)=28.62
HA is uridine.
     gl NaNO3 25�C 0.10M C
                                         2001SHc (45515) 355
                              K(Pd(bpy)(H20)2+L+A)=16.64
                              K(Pd(bpy)(H20)2+L+A+H)=22.77
                              K(Pd(bpy)(H20)2+L+A+2H)=25.58
HA is inosine.
```

```
gl NaNO3 25♦C 0.10M C
                                      2001SHc (45516) 356
Pd++
                           K(Pd(bpy)(H20)2+L+A)=17.06
                           K(Pd(bpy)(H20)2+L+A+H)=23.24
                           K(Pd(bpy)(H20)2+L+A+2H)=27.08
A is adenine.
   gl NaNO3 25�C 0.10M C
                                      2001SHc (45517) 357
Pd++
                           K(Pd(bpy)(H20)2+L+A)=16.00
                           K(Pd(bpy)(H20)2+L+A+H)=22.42
                           K(Pd(bpy)(H20)2+L+A+2H)=27.92
                           K(Pd(bpy)(H20)2+L+A+3H)=31.49
H3A is inosine-5'-monophosphate.
Pd++ gl NaNO3 25♦C 0.10M U
                                      1999SSd (45518) 358
                           K(Pd(pn)+L)=6.05
pn is 1,2-diaminopropane. For acid protonation, K1=5.42 B2=8.06.
______
       gl NaNO3 37�C 0.16M M
                                      1998ESa (45519) 359
                           K(PdA+L)=6.39
A is 1,3-diaminopropane.
-----
                                     1997RSa (45520) 360
Pd++ gl NaClO4 25◊C 0.10M C
                           K(PdA+L)=7.34
A=2-(Aminomethyl)pyridine
*********************************
                              CAS 99-68-3 (3692)
(Carboxymethylthio)butanedioic acid; HOOC.CH(S.CH2.COOH).CH2.COOH
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
     gl KNO3 20�C 0.10M U K1=5.20
                                      1977CAd (45707) 361
*****************************
C6H807
              H3L
                  Citric acid CAS 77-92-9 (95)
2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCCH2.CH(OH)(COOH).CH2COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     kin NaClO4 25�C 1.00M U H K1=3.46
                                      1997SEa (46230) 362
                           K(Pd+HL=PdL+H)=0.66
DH(Pd+HL=PdL+H)=-3.4 \text{ kJ mol}-1, DS(Pd+HL=PdL+H)=2 \text{ J K}-1 \text{ mol}-1
**********************************
                              CAS 139-13-9 (191)
Nitrilotriethanoic acid; N(CH2.COOH)3
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaClO4 20�C 1.00M C
                         M T K1=17.1 B2=23.70 1976AMa (46982) 363
                           K(PdL+H)=2.48
                           K(PdHL+H)=0.5
                           K(PdL(OH)+H)=7.82
```

```
K(PdL+PdL(OH)=Pd2L2(OH))=3.1
By exchange with PdBr4. K(PdL+Br)=2.7
************************
               HL Histidine
                             CAS 71-00-1 (1)
2-Amino-3-(4'-imidazolyl)propanoic acid; H2N.CH(CH2.C3H3N2)COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
-----
Pd++ gl NaNO3 25♦C 0.10M U
                                     1999SSd (47602) 364
                           K(Pd(pn)+L)=14.75
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.53, B2=15.81,
B3=17.81.
Pd++ gl NaNO3 37♦C 0.16M M
                                     1998ESa (47603) 365
                           K(PdA+L)=12.48
A is 1,3-diaminopropane.
**********************************
C6H1004S
              H2L
                              CAS 111-17-1 (139)
3,3'-Thiodipropanoic acid; HOOC.CH2.CH2.S.CH2.CH2.COOH
     -----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp NaCl 25♦C 0.50M U
                         М
                                     1987CMc (48193) 366
                           K(PdC14+L=PdC13L+C1)=5.42
                           K(PdC13L+L=PdC12L2+C1)=2.87
                           K(PdL2+C1)=4.30
                           K(PdL2C1+C1)=2.51
Pd++ sp NaClO4 25♦C 0.50M U
                                     1986CCe (48194) 367
                           B(PdH2L)=16.71
                           B(PdH4L2)=31.60
                           K(Pd+H2L)=7.40
                           K(PdH2L+H2L)=5.58
*******************************
C6H1004S2
                             CAS 7244-02-2 (438)
              H2L
1,2-Bis(carboxymethylthio)ethane; HOOC.CH2.S.CH2.CH2.S.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp oth/un 25♦C 0.10M U K1=4.48 B2=6.91 1978P0a (48249) 368
********************************
                              CAS 1119-62-6 (3697)
3,3'-Di(thiopropanoic acid); HOOC.CH2.CH2.S.S.CH2.CH2.COOH
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
Pd++ sp NaClO4 25♦C 0.50M U
                                     1986CCe (48270) 369
                           B(PdH2L)=15.25
                           B(Pd2H2L)=19.67
                           K(Pd+H2L)=5.92
```

```
K(PdH2L+H2L)=10.34
********************************
                            CAS 86515-79-7 (6099)
Ethylene-bis-selenoglycolic acid; HOOC.CH2.Se.CH2.CH2.Se.CH2.COOH
------
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     con NaCl 25&C 3.00M C K1=6.32 B2=11.97 1988PFb (48297) 370
**************************
C6H11N02
                             CAS 89203-64-5 (3435)
1-Pyrrolidine-1-ethanoic acid, 1-Azacyclopentane-1-ethanoic acid;
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Pd++ sp none 25♦C 0.0 U K1=11.20 B2=21.23 1974HFa (48504) 371
******************************
C6H11N04
                 Aminoadipic
             H2L
                            CAS 542-32-5 (1259)
2-Aminohexanedioic acid; HOOC.CH2.CH2.CH2.CH(NH2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl none
              25♦C 0.0 U
Pd++
                                    1979FWa (48583) 372
                         K(PdL2+H)=5.04
                          K(PdHL2+H)=4.45
                          K(PdCl4+2HL=PdH2L2+4Cl)=10.5
*******************************
C6H11N3O4
              HL
                  Gly-Gly-Gly
                            CAS 556-33-2 (415)
Glycyl-glycyl-glycine; H2N.CH2.CO.NH.CH2.CO.NH.CH2.COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.20M C
                          B2=23.0
                                    1999AJa (48987) 373
                          B(PdLC1)=17.91
                          B(PdH-1LC1)=14.64
                          B(PdH-2L)=9.07
                          B(PdH-3L)=-1.15
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-1L2)=19.81; B(PdH-2L2)=13.40.
                      _____
_____
Pd++ sp oth/un 25♦C ? U
                                    1978CWa (48988) 374
                         K(PdH-2L+H)=2.2
                         K(PdH-1L+H)=1.5
*******************************
                            CAS 592-41-6 (2771)
C6H12
1-Hexene; CH2:CH(CH2)3.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
      oth non-aq 30♦C 100% U
                                    1974KKb (49012) 375
                         K(PdC12+L)=0.28
```

Medium: N-methylacetamide

```
**********************************
                             CAS 760-21-4 (2772)
C6H12
               L
2-Ethyl-1-butene; CH2:C(C2H5).CH2.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      oth non-aq 30�C 100% U
                        M 1974KKb (49015) 376
                         K(PdC12+L)=-0.89
Medium: N-methylacetamide
*************************
                             CAS 763-29-1 (2770)
2-Methyl-1-pentene; CH2:C(CH3).CH2.CH2.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        М
Pd++ oth non-aq 30♦C 100% U
                                     1974KKb (49017) 377
                          K(PdC12+L)=-0.85
Medium: N-methylacetamide
******************************
                             CAS 691-37-2 (2767)
C6H12
               L
4-Methyl-1-pentene; CH2:CH.CH2.CH(CH3)2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ oth non-ag 30♦C 100% U
                                     1974KKb (49019) 378
                        K(PdCl2+L)=0.18
Medium: N-methylacetamide
********************************
                             CAS 7668-21-3 (2774)
cis-2-Hexene; CH3.CH:CH.CH2.CH2.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ oth non-ag 30♦C 100% U
                                     1974KKb (49021) 379
                          K(PdCl2+L)=0.11
Medium: N-methylacetamide
*************************
C6H12
                               (2768)
cis-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2
  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ oth non-aq 30♦C 100% U
                                     1974KKb (49023) 380
                          K(PdC12+L)=0.26
Medium: N-methylacetamide
********************************
                             CAS 4050-45-7 (2773)
trans-2-Hexene; CH3.CH:CH.CH2.CH2.CH3
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
1974KKb (49025) 381
Pd++
     oth non-aq 30♦C 100% U
                       K(PdC12+L)=-0.31
Medium: N-methylacetamide
CAS 4461-48-7 (2769)
trans-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ oth non-aq 30♦C 100% U
                                 1974KKb (49027) 382
                       K(PdC12+L)=-0.42
Medium: N-methylacetamide
*****************************
             HL
C6H12N2O3
                B-Ala-B-Ala
                         CAS 34322-87-7 (2118)
3-Alanyl-3-alanine; H2N.CH2.CH2.CO.NH.CH2.CH2.COOH
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl KNO3 25♦C 0.20M C
                                 2003AMb (49061) 383
                       K(PdH-1L)=11.19
                       K(PdH-2L)=2.52
                       K(PdH-1L2)=17.76
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*******************************
                          CAS 35088-67-6 (2829)
1-Ethylthio-2-thiocarboxymethylethane; C2H5.S.CH2.CH2.S.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp oth/un 250C 0.10M U K1=6.34 B2=11.03 1978P0a (49451) 384
Isoleucine CAS 73-32-5 (424)
C6H13N02
2-Amino-3-methylpentanoic acid; CH3.CH2.CH(CH3).CH(NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 200C 0.5M U K1=9.71 B2=18.15 1974KHb (49911) 385
*************************
                Leucine
                          CAS 61-90-5 (47)
2-Amino-4-methylpentanoic acid; H2N.CH(CH2.CH(CH3)2)COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
                      T
    gl KNO3 25�C 0.50M U
                                 1978LIa (50096) 386
                       K(Pd(en)+L)=11.41
Pd++ gl KNO3 20♦C 0.5M U K1=9.94 B2=18.17 1974KHb (50097) 387
***************************
             HL Ethionine
C6H13N02S
                          CAS 67-21-0 (1909)
```

```
2-Amino-4-(ethylthio)butanoic acid; CH3.CH2.S.CH2.CH2.CH(NH2).COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
Pd++ gl NaCl04 25¢C 1.00M C K1=16.8 B2=34.00 2000SAb (50266) 388
        ._____
Pd++ gl NaCl
             25♦C 0.16M U
                        K1=9.112 B2=14.361 1986AEa (50267) 389
                        B(Pd2L)=18.487
                        B(Pd2H2L)=23.979
                        B(PdH-1L)=5.059
******************************
                 Citrulline
C6H13N3O3
             HL
                           (579)
2-Amino-5-ureidovaleric acid; H2N.CO.NH.CH2.CH2.CH2.CH(NH2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl KNO3 25�C 0.10M C B2=16.23
                                 1991GLb (50585) 390
**********************************
             HL Lysine
                          CAS 56-87-1 (41)
2,6-Diaminohexanoic acid; H2N.(CH2)4.CH(NH2)COOH
______
                                  Reference ExptNo
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ gl NaNO3 25♦C 0.10M U
                                  1999SSd (50830) 391
                        K(Pd(pn)+L)=11.49
                        K(Pd(pn)+H+L)=20.44
pn is 1,2-diaminopropane. For aminoacid protonation, K1=10.44, B2=19.66.
        -----
Pd++ gl NaNO3 37♦C 0.16M M
                                  1998ESa (50831) 392
                        K(PdA+L)=9.28
                        K(PdA+H+L)=19.03
A is 1,3-diaminopropane.
************************************
                           CAS 10595-09-2 (3698)
3,3'-Thiodipropanol; S(CH2CH2CH2OH)2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ kin oth/un 25◊C 1.00M U
                                  1996SEa (51036) 393
                        K1eff=4.51
Medium: 1.00 M HClO4.
*********************************
                          CAS 5244-34-8 (4390)
C6H1402S2
3,6-Dithiaoctan-1,8-diol; HO.CH2.CH2.S.CH2.CH2.S.CH2.CH2.OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
            25♦C 1.00M U B2=21.63 1991ZPa (51038) 394
Pd++ sp KCl
********************************
                 Trien-tetramine CAS 112-24-3 (11)
C6H18N4
```

```
1,4,7,10-Tetraazadecane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.NH2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
_____
Pd++ gl NaCl04 25 C 1.00M C I M K1=40.1 1985YAa (52131) 395
*************************
                    CAS 4097-89-6 (817)
            L Tren
C6H18N4
2,2',2''-Triaminotriethylamine; (H2N.CH2.CH2)3N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 1.00M C
                                1986ANa (52207) 396
                       B(Pd2L2)=77.4
Ternary complexes with Cl-, Br-, I- and SCN-. pH-metric and spec. study.
**********************************
               Cyanobenzene CAS 100-47-0 (4406)
             L
Cyanobenzene, benzonitrile; C6H5.CN
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp alc/w 25♦C 100% U
                                1994PAa (52570) 397
                       K(Pd3A3C0+L)=0.13
Medium: MeOH. A=Bis(diphenylphosphino)methane
*************************
            H2L Dipicolinic aci CAS 449-83-2 (418)
C7H5N04
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
            25♦C 0.20M U K1=16.0
    gl KCl
                                1980KDb (52799) 398
*****************************
             HL
                Salicylaldehyde CAS 90-02-8 (193)
2-Hydroxybenzaldehyde, Salicylaldehyde; HO.C6H4.CHO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl diox/w 25�C 50% U K1=7.74 B2=14.77 1949MMa (53631) 399
************************
                Benzoic Acid CAS 65-85-0 (462)
             HL
Benzenecarboxylic acid; C6H5.COOH
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp alc/w 25♦C 100% U
                     М
                                1994PAa (53853) 400
                       K(Pd3A3CO+L)=4.0
Medium: MeOH. A=Bis(diphenylphosphino)methane
************************
             HL
                         CAS 150-13-0 (1376)
4-Aminobenzoic acid; H2N.C6H4.COOH
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
 1994PAa (55390) 401
     sp alc/w 25♦C 100% U
                       K(Pd3A3C0+L)=3.52
Medium: MeOH. A=Bis(diphenylphosphino)methane
********************************
            HL
                        CAS 495-18-1 (184)
C7H7N02
Benzohydroxamic acid; C6H5.CO.NH.OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25¢C 70% U K1=9.52 B2=17.55 1969JSa (55512) 402
********************************
                          CAS 108-88-3 (2144)
Toluene; C6H5.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
______
    sp alc/w 25�C 100% U M
                                1994PAa (55785) 403
                       K(Pd3A3CO+L)=-1.10
Medium: MeOH. A=Bis(diphenylphosphino)methane
***********************
C7H80S
                         CAS 1193-82-4 (1881)
Phenylmethylsulfoxide; C6H5.SO.CH3
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
     sp alc/w 25�C 95% U
                                1982CCa (56055) 404
                   K(PdCl4+L=PdLCl3+Cl)=0.94
********************************
            H2L
                Methylcatechol
                         CAS 452-86-8 (525)
1,2-Dihydroxy-4-methylbenzene; CH3.C6H3(OH)2
______
    Mtd Medium Temp Conc Cal Flags Lg K values
_______
Pd++
      sp oth/un 25♦C 0.20M U
                                1981CMa (56075) 405
                       K(Pd+H2L=PdL+2H)=2.40
*******************************
             L
                3-Methylaniline CAS 108-44-1 (755)
3-Methylaniline (3-Toluidine); CH3.C6H4.NH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values
-----
      kin oth/un 25�C ? U
                     М
                                1972VGa (56309) 406
                      K(M(H20)4+L=M(H20)3L+H20)=7.57
********************************
               4-Methylaniline CAS 106-49-0 (754)
4-Methylaniline (4-Toluidine); CH3.C6H4.NH2
     Mtd Medium Temp Conc Cal Flags Lg K values
                                 Reference ExptNo
```

```
kin oth/un 25♦C
Pd++
                                         1972VGa (56343) 407
                             K(M(H20)4+L=M(H20)3L+H20)=8.04
***********************************
C7H9NO
                     p-Anisidine
                                 CAS 104-94-7 (3764)
4-Methoxyaniline; CH30.C6H4.NH2
       Mtd Medium Temp Conc Cal Flags Lg K values
                                           Reference ExptNo
______
       kin oth/un 25♦C 2.0M U
                                         1972VGa (56397) 408
                             K(M(H20)4+L=M(H20)3L+H20)=7.81
*******************************
C7H9N50
                     9-Ethylguanine
                                CAS 879-08-3 (6679)
9-Ethyl-2-amino-6-hydroxypurine;
       Mtd Medium Temp Conc Cal Flags Lg K values
                                           Reference ExptNo
-----
       gl KNO3
                25♦C 0.20M C
                           Μ
                                         2003NFa (56518) 409
                              K(PdA+L)=8.11
                              K(PdA+H+L)=15.06
                              K(2PdA+L)=14.95
A is bis-((2-pyridyl)methyl)amine
*********************************
                    Sulfaguanidine CAS 57-67-0 (4469)
4-Aminobenzenesulfonyl guanidine; H2N.C(:NH).NH.SO2.C6H4.NH2
-----
       Mtd Medium Temp Conc Cal Flags Lg K values
                                           Reference ExptNo
Pd++
        sp NaClO4
                                         1970RGa (56704) 410
                    1.0M U
                              K(PdC12+L)=5.42
                              K(PdC12L+L)=4.38
***********************
C7H11N3O
                     Acetylhistamine CAS 673-49-4 (7412)
4-(2'-Acetylaminoethyl)imidazole; C3H3N2.CH2CH2.NH.COCH3
______
       Mtd Medium Temp Conc Cal Flags Lg K values
                                           Reference ExptNo
Pd++
       gl KNO3
                25♦C 0.20M C
                                         2003NFa (56961) 411
                              K(PdA+L)=7.72
                              K(2PdA+L=(PdA)2H-1L+H)=6.13
A is bis-((2-pyridyl)methyl)amine
                                         1997WKa (56962) 412
Pd++
                25♦C 0.20M C
        gl KNO3
                              K(PdAC1+L=PdAL+C1)=5.48
                              K(2PdAC1+L=Pd2A2H-1L+2C1)=-0.9
PdA is [PdH-1(gly-Met)].
********************
C7H11N3O2
                                 CAS 7389-87-9 (3162)
Histidine methyl ester
```

```
Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl KNO3 25♦C 0.20M M
                                     1987SKb (57005) 413
                          K(Pd(dien)+L)=4.61
                          K(Pd(dien)+H+L)=10.58
**********************************
C7H13N02
                             CAS 3235-67-4 (3772)
               HL
Piperidine-N-ethanoic acid; C5H10N-CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp none 25♦C 0.0 U K1=10.32 B2=19.72 1974HFa (57456) 414
********************************
C7H13N03S
                              CAS 65-82-7 (8508)
N-Acetylmethionine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.20M C
                                     2003NFa (57495) 415
                          K(PdA+L)=3.41
A is bis-((2-pyridyl)methyl)amine. Competitive method using uridine.
 .....
Pd++
       gl KNO3 25 C 0.20M C
                      HM
                                     2000NFa (57496) 416
                          K(Pd(dien)+H+L)=8.49
                          K(Pd(dien)+L)=5.61
                          K(PdA+H+L)=7.07
                          K(PdA+L)=3.66
Method: uridine as a competitive ligand. A is terpyridine. K(Pd(dien)+OH)=
6.25, K(PdA+OH)=6.91. By calorimetry: DH(Pd(dien)+L)=-38.8 kJ mol-1.
______
Pd++
      gl KNO3 25�C 0.20M C
                      HM
                                     2000NFa (57497) 417
                          K(Pd(gly-gly)+H+L)=8.74
                          K(Pd(gly-gly)+L)=4.89
                          K(Pd(gly-ala)+H+L)=8.76
                          K(Pd(gly-ala)+L)=4.91
Method: uridine as a competitive ligand. K(Pd(gly-gly)+OH)=4.64,
K(Pd(gly-ala)+OH)=4.72. By calorimetry: DH(Pd(gly-ala)+L)=-38.0 kJ mol-1.
______
   gl KNO3 25�C 0.20M C
Pd++
                        HM
                                     2000NFa (57498) 418
                          K(Pd(gly-met)+H+L)=7.29
                          K(Pd(gly-met)+L)=3.24
                          K(Pd(gly-met)+OH)=4.82
Method: uridine as a competitive ligand.
By calorimetry: DH(Pd(gly-met)+L)=-21.2 kJ mol-1.
***********************
C7H13N04
              H2L
                  Aminopimelic CAS 627-76-9 (1260)
2-Amino-heptanedioic acid; HOOC.(CH2)4.CH(NH2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
gl KCl 25�C 0.10M U
                                       1979FWa (57501) 419
Pd++
                            K(Pd(HL)2=Pd(HL)L+H)=4.58
                            K(Pd(HL)L=PdL2+H)=5.33
                            K(PdC14+2HL=Pd(HL)2+4C1)=11.5
********************************
               HL
                   Ala-Asn
                               CAS 1999-41-3 (5934)
Alanyl-asparagine; NH2.CH(CH3.CO.NH.CH(CH2.CO.NH2).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ sp NaCl 20�C 0.15M U
                                       1990YKa (57648) 420
                           Keff(Pd+L+2C1)=21.5
Eff constant : stability of PdCl4 is not accounted
*********************
                   Gly-b-Ala-Gly CAS 42538-54-5 (9058)
C7H13N3O4
               HL
Glycyl-beta-alanylglycine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                          K1=16.26
Pd++ gl oth/un 25◊C 0.20M C
                                      2003AMb (57660) 421
                           K(PdH-1L)=12.06
                           K(PdH-2L)=11.79
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*******************************
                   Gly-Gly-b-Ala CAS 42538-53-4 (4453)
C7H13N3O4
               HL
Glycylglycyl-beta-alanine; H2N.CH2.CO.NH.CH2.CO.NH.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
          -----
                            K1=16.79
Pd++
      gl oth/un 25♦C 0.20M C
                                      2003AMb (57679) 422
                           K(PdH-1L)=10.97
                           K(PdH-2L)=10.98
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*********************
                   Gly-Gly-Ala CAS 19729-30-7 (3775)
C7H13N3O4
               HL
Glycylglycylalanine; H2N.CH2.CO.NH.CH2.CO.NH.CH(CH3).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                            B2=23.7
                                      1999AJa (57687) 423
      gl KNO3 25�C 0.20M C
                            B(PdLCl)=17.91
                            B(PdH-1LC1)=14.45
                            B(PdH-2L)=8.99
                            B(PdH-3L)=-2.40
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-1L2)=19.60; B(PdH-2L2)=15.74.
*******************************
               HL b-Ala-Gly-Gly CAS 42538-55-6 (4452)
beta-Alanylglycylglycine; H2N.CH2.CH2.CO.NH.CH2.CO.NH.CH2.COOH
       Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
Metal
```

```
K1=14.40
      gl oth/un 25♦C 0.20M C
                                     2003AMb (57694) 424
Pd++
                          K(PdH-1L)=8.76
                          K(PdH-2L)=9.03
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*******************************
         HL Gly-Met CAS 554-94-9 (726)
C7H14N2O3S
Glycyl-methionine; H2N.CH2.CO.NH.CH(CH2.CH2.S.CH3).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KCl 25♦C 0.20M C
                                    2001BNa (57800) 425
                          *K(PdL)=-3.61
                          K(PdH-1L+C1)=2.03
                           *K(PdH-1L)=-5.34
                          K(PdH-1L+H+L)=11.47
K(PdH-1L+L)=4.56, K(PdH-1L+glygly)=4.72.
********************
              HL MOPSO
                             CAS 68399-77-9 (1967)
C7H15N05S
3-(N-Morpholino)-2-hydroxypropane sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
    gl KNO3 25�C 0.10M C M K1=3.50
                                     2001AAa (57996) 426
Also data for ternary complexes with 5'-GMP, 5'-IMP and 5'-CMP.
**********************
C7H17N2O4PS
                             CAS 82611-22-1 (7392)
Methionyl-1-aminoethylphosphonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.10M C
                           B2=21.60 1997LBa (58201) 427
                          B(PdHLC12)=24.01
                          B(PdLC1)=17.87
                          B(PdH-1L)=10.76
                          B(PdH-2L)=-0.01
Data are for (S,S)-isomer. B(PdH2L2)=34.96, B(PdHL2)=28.74, B(PdH-1L2)=12.51
B(PdH-2L2)=2.48. Data also for (R,S)-isomer.
------
Pd++ gl KCl 25♦C 0.10M U
                                     1996BRa (58202) 428
                          K(Pd+2L+2H)=35.35
                          K(Pd+2L)=21.99
                          K(Pd+2L+H)=29.14
H2L: S,S-diastereoisomer
______
Pd++
     gl KCl 25�C 0.10M U
                                     1996BRa (58203) 429
                          K(Pd+2L+2H)=35.01
                          K(Pd+2L)=21.54
                          K(Pd+2L+H)=28.71
H2L: S,R-diastereoisomer
```

```
************************************
C7H20N4
                         CAS 4741-99-5 (12)
1,4,8,11-Tetraazaundecane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaClO4 25�C 1.00M C K1=46.3 1985YAa (58359) 430
Phthalic acid CAS 88-99-3 (113)
            H2L
Benzene-1,2-dicarboxylic acid; C6H4(COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25¢C ? M M K1=3.31 1988SKa (59003) 431
                       K(PdA+L)=3.04
A=diethylenetriamine
*******************************
C8H8N02C1
                          CAS 61756-69-2 (4569)
N-Acetyl-N-(4-chlorophenyl)hydroxamine; Cl.C6H4.N(CO.CH3).OH
  ._____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25¢C 70% U K1=9.63 B2=17.37 1968JSb (59281) 432
Medium: 70% dioxan, 0.1 M KCl
********************************
                p-Toluic acid CAS 99-94-5 (1372)
             HL
4-Methylbenzoic acid; CH3.C6H4.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp alc/w 25♦C 100% U
                                 1994PAa (59501) 433
                       K(Pd3A3C0+L)=3.99
Medium: MeOH. A=Bis(diphenylphosphino)methane
******************************
               CAS 4822-44-0 (3240)
C8H9NOS
N-(Mercaptoacetyl)aniline (thioglycolanilide); C6H5.NH.CO.CH2.SH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      oth diox/w 30♦C 70% U B2=24.34
                                1973BSa (60163) 434
Medium: 0.1 M KCl
*******************************
C8H9N03
                          CAS 5663-54-7 (1095)
             HL
2,4-Dihydroxy-acetophenone oxime; (HO)2.C6H3.C(CH3):NOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 27�C 60% U I K1=8.99 B2=17.80 1974SRa (60400) 435
************************
C8H9N04S
                          CAS 7717-21-7 (3846)
            H2L
```

```
N-(Phenylsulfonyl)aminoethanoic acid; C6H5SO2NHCH2COOH
-----
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ vlt NaClO4 25♦C 0.10M U K1=18.9 B2=24.4 1990GBb (60517) 436
***********************************
            H2L Uramildiacetic CAS 13055-06-5 (185)
C8H9N307
5-Amino-2,4,6-trioxo-1,3-perhydrodiazimino-N,N-diethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp KCl 20♦C 0.10M U
                                 1987KUa (60652) 437
                     B(PdCl(OH)L)=22.12
******************************
C8H9O3P
            H2L
                       CAS 1707-08-0 (1969)
2-Styrylphosphonic acid; C6H5.CH:CH.PO3H2
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.12M U K1=3.33 B2=6.55 1979RZb (60673) 438
CAS 106-42-3 (2145)
             L
                p-Xylene
1,4-Dimethylbenzene, 4-Xylene; CH3.C6H4.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                               Reference ExptNo
• • • •
Pd++ sp alc/w 25♦C 100% U
                                 1994PAa (60682) 439
                       K(Pd3A3CO+L)=-1.15
Medium: MeOH. A=Bis(diphenylphosphino)methane
********************************
                          CAS 5756-79-6 (4578)
C8H10N3OC1
3-Ethyl-3-hydroxy-1-(2-chlorophenyl)triazene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl diox/w 25¢C 70% U K1=10.49 B2=20.46 1968DSa (60784) 440
Medium: 70% dioxan, 0.1 M KCl
C8H10N3OC1
                          CAS 5756-78-5 (4579)
3-Ethyl-3-hydroxy-1-(4-chlorophenyl)triazene;
__________
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25¢C 70% U K1=10.68 B2=20.66 1968DSa (60789) 441
Medium: 70% dioxan, 0.1 M KCl
*********************************
                DiMethylaniline CAS 121-69-7 (1343)
N-Phenyl-N,N-dimethylamine; C6H5.N(CH3)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
sp non-aq 25♦C 100% U
Pd++
                                                        М
                                                                                    1979SSa (60989) 442
                                                           K(PdA+L)=1.0
A=Tetraphenylporphyrin (in its excited triplet state)
*******************************
                                                                  CAS 5956-70-7 (4529)
3-Hydroxy-3-methyl-1-(4-tolyl)triazene; CH3.C6H4.N:N.N(OH).CH3
______
             Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25¢C 70% U K1=11.77 B2=23.10 1970DSb (61244) 443
Medium: 70% dioxan, 0.1 M KCl
*******************************
                                HL
                                                                    CAS 5756-72-9 (4533)
C8H11N3O2
3-Hydroxy-3-methyl-1-(4'-methoxyphenyl)triazene; CH30.C6H4.N:N.N(OH).CH3
______
              Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
              gl diox/w 25¢C 70% U K1=12.25 B2=23.70 1970DSb (61257) 444
Medium: 70% dioxan, 0.1 M KCl
*******************************
                                                                   CAS 2497-02-1 (3230)
C8H11N3O3
                                HL
Acetyl-L-histidine;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.20M C
                                                                                     2003NFa (61275) 445
                                                             K(PdA+L)=8.47
                                                             K(PdA+H+L)=11.58
                                                             K(2PdA+L=(PdA)2H-1L+H)=6.99
A is bis-((2-pyridyl)methyl)amine
Pd++
                gl KNO3
                                25♦C 0.20M C
                                                                                     1997WKa (61276) 446
                                                             K(PdAC1+L=PdAL+C1)=5.33
                                                             K(2PdAC1+L=Pd2A2H-1L+2C1)=0.1
PdA is [PdH-1(gly-Met)].
******************
C8H14N4O5
                                  HL
                                           Tetraglycine CAS 637-84-3 (1849)
Glycyl-Glycyl-Glycine; H2N.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.20M C
                                                                                     1999AJa (62024) 447
                                                             B(PdLC1)=18.25
                                                             B(PdH-1LC1)=14.81
                                                             B(PdH-2L)=10.13
                                                             B(PdH-3L)=2.45
Medium: 0.1 M KNO3, 0.1 M KCl.
********************************
                                                                    CAS 4408-66-6 (8332)
C8H1405S2
                                H2L
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Oxybis(ethylenethio)diethanoic acid;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 20¢C 0.10M U K1=6.22 1977CAc (62135) 448
****************************
       HL
C8H15N02
                            (4572)
1-Azacycloheptane-1-ethanoic acid, hexamethyleneimine-ethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
    sp none 25�C 0.0 U K1=10.48 B2=20.45 1974HFa (62159) 449
*****************************
C8H15N3O4
                            (1008)
Glycyl-b-alanyl-b-alanine; H2NCH2CONH(CH2)2CONH(CH2)2COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl oth/un 25♦C 0.20M C K1=16.66
                                  2003AMb (62255) 450
                        K(PdH-1L)=13.24
                        K(PdH-2L)=10.12
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
******************************
                            (1009)
b-Alanyl-glycyl-b-alanine; H2N(CH2)2CONHCH2CONH(CH2)2COOH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl oth/un 25◊C 0.20M C
                                  2003AMb (62263) 451
                        K(PdH-1L)=12.64
                        K(PdH-2L)=9.58
Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.
*************************************
                 Famotidine
                           CAS 76824-35-6 (6502)
N'-(Aminosulfonyl)-3-((2-(diaminomethyleneamino)-4-thiazolyl)methylthio)propanamid
ine
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaCl 25♦C 0.10M U K1=6.20 B2=12.69 1995CCa (62274) 452
                        B(PdH-1L)=1.20
                        B(PdHL2)=18.40
                        B(PdH-1L2)=6.23
********************************
                        CAS 869-19-2 (255)
C8H16N2O3
             HL
                 Gly-Leu
Glycyl-leucine; H2N.CH2.CO.NH.CH(CH2.CH(CH3)2).COOH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M U M
                                  1999SSd (62393) 453
```

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K(Pd(pn)+L)=7.73

K(Pd(pn)+L=PdH-1(pn)L+H)=3.30
```

pn is 1,2-diaminopropane. For aminoacid protonation, K1=8.13. ********************************** CAS 35513-90-7 (1545) 1,4,9,12-Tetraazadodecane; NH2.(CH2)2.NH.(CH2)4.NH.(CH2)2.NH2 ______ Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo _______ Pd++ gl NaCl04 25�C 1.00M C K1=42.0 1985YAa (63383) 454 ************************* Ferron CAS 547-91-1 (275) C9H6NO4IS H2L 7-Iodo-8-hydroxyquinoline-5-sulfonic acid; (HO)(HO3S)C9H4NI Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo sp oth/un 25**♦**C 0.0 U 1967MBe (63822) 455 K(?)=9.05***************************** H2L Sulfoxine CAS 84-88-8 (448) C9H7N04S 8-Hydroxyquinoline-5-sulfonic acid; ______ Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ oth oth/un ? ? U K1=11.6 B2=20.14 1973BIb (64573) 456 Method: fluorescence *********************************** HL CAS 36076-50-3 (4680) C9H11NOS N-Phenyl-N-methyl-2-mercaptoacetamide; HS.CH2.CO.N(CH3).C6H5 ------Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Pd++ oth diox/w 30♦C 70% U K1=9.87 B2=18.84 1973BSc (65682) 457 ****************************** HL Phenylalanine C9H11N02 CAS 63-91-2 (2) 2-Amino-3-phenylpropanoic acid; H2N.CH(CH2.C6H5)COOH Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Pd++ gl KNO3 25**%**C 0.50M U 1978LIa (65966) 458 K(Pd(en)+L)=10.86Pd++ gl KNO3 20♦C 0.5M U K1=9.32 B2=18.27 1974KHb (65967) 459 ************************* HL B-Phenylalanine CAS 614-19-7 (187) 3-Amino-3-phenyl-propanoic acid; H2N.CH(C6H5).CH2.COOH Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo ______ Pd++ gl NaNO3 25**♦**C 0.10M U M 1999SSd (66011) 460

```
K(Pd(pn)+L)=11.06
pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.12, B2=11.01.
*******************************
C9H11N04S
                              CAS 1080-44-0 (4682)
N-(4-Toluenesulfonyl)glycine, N-tosylglycine; CH3.C6H4.S02.NH.CH2.COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                       Reference ExptNo
-----
      vlt NaClO4 25�C 0.10M U
                                      1994BGa (66427) 461
                           Keff(Pd+H2L=PdL)=19.9
                           Beff(Pd+2H2L=PdL2)=23.3
Complex formation involves loss of the amide proton.
Pd++ vlt NaCl04 25¢C 0.10M U K1=17.8 B2=23.4 1990GBb (66428) 462
******************************
                                (6960)
N-(Phenylsulfonyl)-2-aminopropanoic acid; C6H5.SO2.NH.CH(CH3)COOH
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ vlt NaClO4 25�C 0.10M U
                                      1994BGa (66429) 463
                           Keff(Pd+H2L=PdL)=20.6
                           Beff(Pd+2H2L=PdL2)=23.0
Complex formation involves loss of the amide proton.
**********************************
                                (6961)
N-(Phenylsulfonyl)-3-aminopropanoic acid; C6H5.SO2.NH.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Pd++
      vlt NaClO4 25�C 0.10M U
                                      1994BGa (66430) 464
                           Keff(Pd+H2L=PdL)=17.1
                           Beff(Pd+2H2L=PdL2)=20.8
Complex formation involves loss of the amide proton.
********************************
                              CAS 58-96-8 (828)
                   Uridine
C9H12N2O6
Uracil-1-beta-D-ribofuranoside;
      Mtd Medium Temp Conc Cal Flags Lg K values
                                        Reference ExptNo
Pd++ gl KNO3 25♦C 0.20M C
                                      2003NFa (66703) 465
                          K(PdA+L)=8.90
A is bis-((2-pyridyl)methyl)amine
______
Pd++
    gl NaNO3 25�C 0.10M C
                                      2002MSb (66704) 466
                           K(PdA+L)=8.70
                           K(PdA+2L)=14.37
                           K(PdA+H+L)=15.17
A is N,N'-dimethylethylenediamine.
     ______
```

```
gl KNO3 25&C 0.20M C
                                           2001NSa (66705) 467
Pd++
                             М
                               K(Pd(en)+L)=8.98
                               K(Pd(en)+2L)=14.80
                               *K(Pd(en)(H20)L)=-7.67
K(Pd(en)(H20)+L=Pd(en)(OH)L+H)=1.31,
K(2Pd(en)(H20)2+2L=Pd2(en)2(OH)L2+H)=12.14
______
Pd++ gl KNO3 25♦C 0.20M C
                                           2001NSa (66706) 468
                               K(Pd(pic)+L)=9.20
                               K(Pd(pic)+2L)=15.09
                               *K(Pd(pic)(H20)L)=-7.94
K(Pd(pic)(H20)+L=Pd(pic)(OH)L+H)=1.26,
K(2Pd(pic)(H20)2+2L=Pd2(pic)2(OH)L2+H)=13.82. Hpic=picric acid.
Pd++
       gl NaNO3 25�C 0.10M C
                                           2001SHc (66707) 469
                               K(Pd(bpy)(H20)2+L)=9.71
                               K(Pd(bpy)(H20)2+H+L)=13.29
                               K(Pd(bpy)(H20)2+2L)=16.88
                               K(Pd(bpy)(H20)2+2L+H)=22.65
                             -----
Pd++ gl KNO3 25¢C 0.20M C K1=7.42 2000NFa (66708) 470
Pd++ gl KCl 25♦C 0.20M U M
                                           1997KFa (66709) 471
                               K(Pd(dien)Cl+L)=7.42
                               K(Pd(terpy)Cl+L)=7.56
dien=diethylentriamine, terpy=2,2'-6',2"-terpyridine. Data also for many
related nuceleobases
Pd++ gl KNO3 25♦C 0.20M C
                                           1997WKa (66710) 472
                               K(PdAC1+L=PdAL+C1)=7.00
PdA is [PdH-1(gly-met)].
Pd++
        gl KNO3
                25¢C 0.50M U
                                           1981LIa (66711) 473
                               K(Pd(en)(H20)2+L)=8.65
                               K(Pd(en)(H20)L+L)=5.92
                               K(Pd(dien)(H20)+L)=8.08
*******************************
C9H13N2O9P
                H3L UMP-5
                               CAS 58-97-9 (2948)
Uridine-5'-monophosphoric acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                             М
Pd++
     nmr oth/un 23♦C 0.30M U
                                           1985PGa (66980) 474
                               Keff(PdA+HL)=2.99
A=Tetrakis(4-N-methylpyridyl)porphyrin. pD=7.0
*********************************
           L Cytidine CAS 65-46-3 (2152)
Cytidine, Cytosine-1-beta-D-ribofuranoside;
______
       Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
25♦C 0.20M C
                                       2003NFa (67073) 475
Pd++
       gl KNO3
                            K(PdA+L)=5.83
A is bis-((2-pyridyl)methyl)amine
Pd++
      sp NaClO4 25�C 1.0M U
                                       1984ETa (67074) 476
                            K(PdC14+L=PdLC13+C1)=4.49
                            K(PdLC13+L=PdL2C12+C1)=3.45
                            K(Pd(en)Cl2+L=PdenLCl+Cl)=3.32
                            K(Pd(en)LC1+L=PdenL2+C1)=2.56
                   CMP-5
C9H14N3O8P
               H2L
                               CAS 63-37-6 (1243)
Cytidine-5'-monophosphoric acid, Cytidilic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       gl KNO3 25�C 0.10M C M K1=3.35
                                       2001AAa (67262) 477
Also data for ternary complexes with MOPSO, TAPSO and ACES.
**********************
                    Gly-Met-Gly CAS 51529-34-1 (7566)
C9H17N3O4S
               HL
Glycylmethionylglycine; NH2CH2CONHCH(CH2CH2SCH3)CONHCH2COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KCl 25♦C 0.20M C
                          Μ
                                       2001BNa (67872) 478
                            *K(PdL) = -3.65
                            K(PdH-1L+C1)=2.21
                            *K(PdH-1L)=-5.57
                            K(PdH-1L+H+L)=11.49
K(PdH-1L+L)=4.71, K(PdH-1L+glygly)=4.50, K(PdH-1L+L=PdH-2L2+H)=-4.99.
***************************
               HL Leu-Ala
                               CAS 7298-84-2 (4659)
Leucylalanine- H2N.CH(CH2.CH(CH3)2).CO.NH.CH(CH3).COOH
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaNO3 25♦C 0.10M U
                                       1999SSd (67912) 479
                            K(Pd(pn)+L)=8.19
                            K(Pd(pn)+L=PdH-1(pn)L+H)=3.74
pn is 1,2-diaminopropane. For aminoacid protonation, K1=8.13.
*******************************
                               CAS 3030-47-5 (4605)
N,N,N',N",N"-Pentamethyl-diethylenetriamine; (CH3)2NCH2CH2N(CH3)CH2CH2N(CH3)2
-----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                        Reference ExptNo
______
       gl R4N.X 25&C 0.10M C
                                       1998BBa (68282) 480
                            B(PdLC1)=24.9
                            B(PdH-1L)=14.1
Medium: 0.1 M NMe4Cl
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gl NaClO4 25�C 0.50M C I
                                1981GMf (68283) 481
Pd++
                       K(PdL=PdLOH+H)=-7.293
                       K(PdL+PdLOH)=1.08
In 0.5 NaNO3, K(PdL=PdLOH+H)=-7.241, K(PdL+PdLOH)=0.70
********************************
                 CAS 129880-56-4 (1533)
C9H24N4
1,4,10,13-Tetraazatridecane; H2N.(CH2)2.NH.(CH2)5.NH.(CH2)2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
    gl KNO3 25♦C 0.10M C K1=37.9 1985YAa (68336) 482
CAS 131-91-9 (2668)
C10H7N02
1-Nitroso-2-naphthol, alpha-Nitroso-beta-naphthol;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl alc/w RT 40% M K1=5.53 B2= 8.86 1993RAb (68585) 483
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*******************************
C10H7N02
            HL
                         CAS 132-53-6 (2524)
2-Nitroso-1-naphthol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl alc/w RT 40% M K1=4.46 B2= 8.92 1993RAb (68653) 484
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
************************
       H2L
C10H7N05S
                          CAS 3682-32-4 (1812)
2-Nitroso-1-hydroxynaphthalene-4-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl oth/un RT 0.10M M K1=4.46 B2= 8.68 1993RAb (68892) 485
Medium not stated.
*******************************
               Nitroso-R acid CAS 525-05-3 (1811)
C10H7N08S2
            H3L
1-Nitroso-2-hydroxynaphthalene-3,6-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++
    sp NaClO4 25�C 0.10M U
                                1964MSa (69024) 486
                      K(?)=8.9
______
     sp oth/un 25�C ? U
                                1963BGb (69025) 487
                    K(?)=8.8
*************************************
                2,2'-Bipyridyl CAS 366-18-7 (25)
2,2'-Bipyridine; (C5H4N)2
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      vlt NaClO4 25�C 0.10M U
                                     1994BGa (69635) 488
                          Beff(Pd(bpy)A)=30.3
                          Beff(Pd(bpy)HB)=30.7
                          Beff(Pd(bpy)HC)=30.8
                          Beff(Pd(bpy)D)=23.2
H2A=N-tosylglycine, H2B=N-phenylsulfonylglycine, H2C=tosyl-alpha-alanine,
H2D=benzoylglycine. Data for other L.
*************************
              HL 2-Furil dioxime CAS 522-27-0 (3319)
C10H8N2O4
1,2-Di(2'-furyl)ethane-1,2-dione dioxime; (C4H3O.C(:N.OH))2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      dis NaClO4 20�C 0.10M U B2=43.7
                                    1967STa (69702) 489
********************************
C10H9N04S
                             CAS 116-63-2 (4781)
1-Amino-2-naphthol-4-sulfonic acid;
------
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
Pd++ sp oth/un 25♦C ? U B2=7.90
                                     1968MBa (70187) 490
***********************************
4-(5'-Methyl-3'-isoxazolylazo)-1,3-dihydroxybenzene; (HO)2C6H3.N:N.C3H2NO
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Pd++
      sp NaClO4 25�C 0.10M U
                                     1989TSb (70412) 491
                          K(PdHL+H)=2.65
                          K(PdL+H)=7.09
                          K(PdH-1L+H)=9.57
********************************
C10H11N3S
                             CAS 5351-70-2 (4734)
Cinnamaldehyde thiosemicarbazone; C6H5.CH:CH:N.NH.CS.NH2
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       sp alc/w 20♦C 50% U B2=11.74 1972KLa (71085) 492
Medium: 50% EtOH, 0.1 M, pH=5
************************
              HL
C10H12N4O5
                  Inosine
                             CAS 58-63-9 (2344)
Hypoxanthine-9-beta-D-ribofuranoside;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaClO4 25♦C 0.10M M
                                     2002BSa (71392) 493
                          K(PdA+L)=6.94
```

```
K(PdA+H+L)=11.00
K(PdA+2L)=10.27
```

```
HA is S-methyl cysteine.
Pd++ gl NaNO3 25%C 0.10M C
                                              2002MSb (71393) 494
                                 K(PdA+L)=8.03
                                 K(PdA+2L)=12.74
                                 K(PdA+B+L)=12.29
                                 K(PdA+H+B+L)=17.72
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.
       -----
Pd++ gl NaNO3 25♦C 0.10M C
                                              2001SHc (71394) 495
                                 K(Pd(bpy)(H20)2+L)=9.73
                                 K(Pd(bpy)(H20)2+H+L)=12.55
                                 K(Pd(bpy)(H20)2+2L)=14.89
                                 K(Pd(bpy)(H20)2+2L+H)=20.11
K(Pd(bpy)(H20)2+2L+2H)=25.37.
Pd++ gl NaNO3 25�C 0.10M U
                                              1999SSd (71395) 496
                                 K(Pd(pn)+L)=6.83
                                 K(Pd(pn)+2L)=11.26
pn is 1,2-diaminopropane. For nucleotide protonation, K1=8.55.
______
Pd++ gl NaNO3 370C 0.16M M M
                                              1998ESa (71396) 497
                                 K(PdA+L)=6.92
                                 K(PdA+2L)=11.58
A is 1,3-diaminopropane.
Pd++ gl KCl 25♦C 0.20M U
                                              1997KFa (71397) 498
                                 K(Pd(dien)Cl+L)=6.82
                                 K(Pd(dien)Cl+H+L)=12.79
                                 K(2Pd(dien)Cl+L)=11.56
                                 K(Pd(terpy)Cl+L)=6.92
dien=diethylentriamine, terpy=2,2'-6',2"-terpyridine. K(Pd(terpy)+H+L)=12.10
Data also for many related nuceleobases
______
Pd++ gl NaClO4 25◊C 0.10M C M
                                              1997RSa (71398) 499
                                 K(PdA+L)=7.43
                                 K(PdA+2L)=11.77
A=2-(Aminomethyl)pyridine
Pd++ gl KNO3 25♦C 0.20M C
                                              1997WKa (71399) 500
                                 K(PdAC1+L=PdAL+C1)=6.38
                                 K(PdAC1+H+L=PdAHL+C1)=12.73
                                 K(2PdAC1+L=Pd2A2L+2C1)=10.93
PdA is [PdH-1(gly-Met)].
Pd++ gl NaClO4 25♦C 0.10M M T H
                                              1996SEc (71400) 501
                                 K(PdAC12+L)=6.04
                                 K(PdAC12+2L)=9.56
```

```
A is N,N,N',N'-tetramethyl-1,2-diaminoethane. Also data at 15.5, 20, 30
and 35.2 C. DH(PdACl2+L)=17.0 kJ mol-1, DH(PdACl2+2L)=-10.7.
______
       gl NaClO4 25 C 0.10M M T H
                                      1996SEc (71401) 502
                           K(PdAC12+L)=5.78
                           K(PdAC12+2L)=10.48
A is N,N,N',N'-tetraethyl-1,2-diaminoethane. Also data at 15.5, 20, 30
and 35.2 C. DH(PdACl2+L)=30.6 kJ mol-1, DH(PdACl2+2L)=35.6.
*****************************
C10H12N6S
                              CAS 91262-80-9 (6101)
3-(4',5'-Dimethyl-2'-thiazolylazo)-2,6-diaminopyridine;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++
     sp NaClO4 25�C 0.25M U
                                      1988SSe (71519) 503
                           B(PdHL)=16.36
                           B(PdH3L2)=31.47
                           B(PdH4L2)=27.36
*******************************
C10H13N04S
                   N-Tosylalanine (1584)
              H2L
N-(4-Toluenesulfonyl)-3-aminopropanoic acid; CH3.C6H4.S02.NH.CH2.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      vlt NaClO4 25�C 0.10M U
                                      1994BGa (71773) 504
                           Keff(Pd+H2L=PdL)=16.8
                           Beff(Pd+2H2L=PdL2)=20.5
Complex formation involves loss of the amide proton.
************************
C10H13N3OS
                                (4791)
alpha-Ethylfurylacrolein thiosemicarbazone;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       sp alc/w 20�C 50% U B2=12.68
                                      1972KLa (71797) 505
Medium: 50% EtOH, 0.1 M, pH=5
***********************************
                             CAS 131-99-7 (843)
C10H13N408P
              H3L
                   IMP
Inosine-5'-monophosphoric acid;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++
     gl NaClO4 25�C 0.10M M
                                      2002BSa (71862) 506
                           K(PdA+L)=7.45
                           K(PdA+H+L)=14.10
HA is S-methyl cysteine.
              25♦C 0.10M C M K1=3.27
Pd++
       gl KNO3
                                      2001AAa (71863) 507
Also data for ternary complexes with MOPSO, TAPSO and ACES.
```

```
gl NaNO3 25♦C 0.10M C
Pd++
                                          2001SHc (71864) 508
                              K(Pd(bpy)(H20)2+L)=10.17
                              K(Pd(bpy)(H20)2+H+L)=16.65
                              K(Pd(bpy)(H20)2+L+2H)=20.98
                              K(Pd(bpy)(H20)2+2L)=14.80
K(Pd(bpy)(H20)2+2L+H)=21.49, K(Pd(bpy)(H20)2+2L+2H)=28.50.
Pd++ gl NaNO3 25♦C 0.10M U
                                          1999SSd (71865) 509
                              K(Pd(pn)+L)=8.13
                              K(Pd(pn)+2L)=11.92
                              K(Pd(pn)+H+L)=14.03
pn is 1,2-diaminopropane. For nucleotide protonation, K1=8.67, B2=14.63.
    -----
Pd++ gl NaNO3 370C 0.16M M
                                          1998ESa (71866) 510
                              K(PdA+L)=9.82
                              K(PdA+2L)=14.82
                              K(PdA+H+L)=15.14
A is 1,3-diaminopropane.
Pd++ gl NaClO4 25♦C 0.10M C
                                          1997RSa (71867) 511
                              K(PdA+L)=10.79
                              K(PdA+H+L)=17.02
                              K(PdA+2L)=14.65
A=2-(Aminomethyl)pyridine
______
   gl NaClO4 25�C 0.10M M T H
Pd++
                                          1996SEc (71868) 512
                              K(PdAC12+L)=4.43
                              K(PdAC12+2L)=9.20
A is N,N,N',N'-tetramethyl-1,2-diaminoethane. Also data at 15, 20, 30 and
35 C. DH(PdACl2+L)=-73.1 kJ mol-1, DH(PdACl2+2L)=-62.4.
------
Pd++ gl NaClO4 25�C 0.10M M T H
                                          1996SEc (71869) 513
                              K(PdAC12+L)=4.39
                              K(PdAC12+2L)=9.73
A is N,N,N',N'-tetraethyl-1,2-diaminoethane. Also data at 15, 20, 30 and
35 C. DH(PdACl2+L)=-88.6 kJ mol-1, DH(PdACl2+2L)=-2.09.
Pd++ sp NaClO4 25♦C 0.10M U
                                          1994SEa (71870) 514
                              K(PdACl+L=PdALCl)=-1.46
A=N,N,N',N'-Tetramethylethylenediamine
********************************
                HL Guanosine
                                CAS 118-00-3 (1402)
2-Aminopurin-6-one-9-riboside;
______
                                          Reference ExptNo
       Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ gl NaNO3 37%C 0.16M M
                                          1998ESa (72015) 515
                              K(PdA+L)=7.85
A is 1,3-diaminopropane.
********************************
```

```
H2L Thymidine CAS 50-89-5 (8256)
C10H14N2O5
Thymine deoxyriboside, 1-(2-Deoxy-beta-ribofuranosyl)-5-methyluracil;
______
      Mtd Medium Temp Conc Cal Flags Lg K values
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaNO3 25◊C 0.10M C
                                      2002MSb (72085) 516
                           K(PdA+L)=8.75
                           K(PdA+2L)=14.53
                           K(PdA+B+L)=16.26
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.
      Pd++ gl NaNO3 25♦C 0.10M U
                                      1999SSd (72086) 517
                           K(Pd(pn)+L)=8.92
                           K(Pd(pn)+2L)=14.84
pn is 1,2-diaminopropane. For nucleotide protonation, K1=9.54.
      gl NaNO3 37�C 0.16M M
                                      1998ESa (72087) 518
                           K(PdA+L)=8.27
                           K(PdA+2L)=13.57
A is 1,3-diaminopropane.
********************************
           L alpha-Thymidine CAS 4449-43-8 (695)
Thymine-2-desoxyribofuranosyl-5-methyluracil;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl NaNO3 20�C 1.0M M
                           K1=8.15 B2=15.82 1997WYa (72106) 519
Pd++
                           K3=6.37
                           K4 = 3.56
    gl KNO3 25�C 0.50M U
Pd++
                                      1981LIa (72107) 520
                           K(Pd(en)(H20)2+L)=8.84
                           K(Pd(en)(H20)L+L)=5.85
                           K(Pd(dien)(H20)+L)=8.31
*********************************
C10H14N3
                               CAS 29198-32-1 (6921)
4-Diazo-N,N-diethylaniline; N:N.C6H4.N(C2H5)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++
      sp alc/w 25�C 100% U
                                      1994PAa (72122) 521
                           K(Pd3A3C0+L)=2.30
Medium: MeOH. A=Bis(diphenylphosphino)methane
***************************
C10H14N507P
              H2L
                  AMP-2
                              CAS 81012-86-4 (2437)
Adenosine-2'-monophosphoric acid, 2-Adenylic acid;
    Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.10M C
                                      2002WBa (72190) 522
```

```
K(Pd(dien)+H+L)=11.1
                            K(Pd(dien)+L)=5.30
                            K(2Pd(dien)+H+L)=13.5
***********************************
               H3L
                   GMP-2
                               CAS 130-50-7 (8778)
C10H14N508P
Guanosine-2'-monophosphoric acid;
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.10M C
                                       2002WBa (72525) 523
                            K(Pd(dien)+2H+L)=20.82
                            K(Pd(dien)+H+L)=15.40
                            K(Pd(dien)+L)=7.50
                            K(2Pd(dien)+H+L)=19.45
K(2Pd(dien)+L)=13.70, K(3Pd(dien)+L)=16.59.
Pd++ gl KNO3 25%C 0.10M C
                                       2002WBa (72526) 524
                            K(Pd(en)+4H+2L)=39.57
                            K(Pd(en)+2H+2L)=28.4
                            K(Pd(en)+2L)=13.52
                            K(Pd(en)+H+L)=15.98
K(Pd(en)+L)=9.54
H3L GMP-5
                              CAS 85-32-5 (2947)
Guanosine-5'-monophosphoric acid;
______
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaClO4 25♦C 0.10M M
                                       2002BSa (72593) 525
                            K(PdA+L)=11.96
                            K(PdA+H+L)=18.75
                            K(PdA+2H+L)=22.00
HA is S-methyl cysteine.
Pd++ gl KNO3 25♦C 0.10M C
                                       2002WBa (72594) 526
                            K(Pd(en)+4H+2L)=40.96
                            K(Pd(en)+2H+2L)=28.8
                            K(Pd(en)+2L)=11.7
                            K(Pd(en)+H+L)=16.37
K(Pd(en)+L)=9.83.
______
Pd++ gl KNO3 25♦C 0.10M C
                         M K1=3.60 2001AAa (72595) 527
Also data for ternary complexes with MOPSO, TAPSO and ACES.
______
     gl NaClO4 25�C 0.10M C
                                       1997RSa (72596) 528
Pd++
                            K(PdA+L)=10.82
                            K(PdA+H+L)=17.35
                            K(PdA+2L)=14.46
A=2-(Aminomethyl)pyridine
```

```
gl NaClO4 25 C 0.10M M T H
Pd++
                                      1996SEc (72597) 529
                           K(PdAC12+HL)=4.14
                           K(PdAC12+2HL)=8.03
A is N,N,N',N'-tetramethyl-1,2-diaminoethane. Also data at 15, 20, 30 and
35 C. DH(PdACl2+HL)=-11.8 kJ mol-1, DH(PdACl2+2HL)=-14.8.
       gl NaClO4 25 C 0.10M M T H
                                      1996SEc (72598) 530
Pd++
                           K(PdAC12+HL)=4.00
                           K(PdAC12+2HL)=7.14
A is N,N,N',N'-tetraethyl-1,2-diaminoethane. Also data at 15, 20, 30 and
35 C. DH(PdACl2+HL)=-76.2 kJ mol-1, DH(PdACl2+2HL)=-111.
*************************
                   Gly-Gly-His
                              CAS 93404-95-6 (74)
Glycyl-glycyl-histidine; H2N.CH2.CO.NH.CH2.CO.NH.CH(CH2.C3H3N2).COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl KCl 25♦C 0.20M C
                                      1997BCb (72800) 531
                           *K(PdH-4L)=-11.30
*K corresponds to deprotonation of coordinated -NH2.
********************************
                  ADP
                              CAS 20398-34-9 (2181)
C10H15N5O10P2
              H3L
Adenosine-5'-diphosphoric acid;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ nmr oth/un 23♦C 0.30M U M
                                      1985PGa (73011) 532
                           Keff(PdA+L)=4.08
A=Tetrakis(4-N-methylpyridyl)porphyrin. pD=7.0
*******************************
C10H16N2O8
                   EDDS
                              CAS 52759-67-8 (1100)
1,2-Diaminoethane-N,N'-di-1,4-butanedioic acid; (CH2.NH.CH(COOH)CH2.COOH)2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp NaClO4 20♦C 0.10M U
                         Μ
                                      1986PKa (73171) 533
                           K(PdCl+H2L)=10.93
                           K(PdC1+L)=23.67
gl KNO3 30�C 0.10M U K1=13.6
                                  1971STc (73172) 534
**************************
              H4L EDTA
                               CAS 60-00-4 (120)
1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     sp NaClO4 21�C 0.20M U
                         M K1=25.6
                                      1983KDa (74071) 535
                           K(PdL+C1)=5.4
     sp NaClO4 25�C 1.00M U
Pd++
                                      1981SDa (74072) 536
```

```
K(PdL+C1)=2.26
                        K(PdL+Br)=2.40
                        K(PdL+I)=2.60
                        K(PdL+SCN)=3.30
K(PdL+OH)=4.41 K(PdL+NH3)=4.84 K(PdL+S2O3)=4.66 K(PdL+thiocarbamate)=4.00
______
Pd++ sp none 250C 0.0 U K1=26.4 1978KRa (74073) 537
Pd++ gl oth/un 200C 1.00M U I M K1=24.5 1976AMa (74074) 538
                        K(PdL+H)=3.01
                        K(PdHL+H)=3.21
                        K(PdH2L+H)=0.09
Medium: NaBr/NaClO4. By exchange with PdBr4
______
Pd++ oth NaClO4 25¢C 0.20M U K1=18.5 1955MKa (74075) 539
L Cimetidine CAS 51481-61-9 (5716)
C10H16N6S
Cimetidine; CH3.C3H2N2.CH2.S.CH2.CH2.NH.C(:NCN)NH.CH3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaCl 25�C 0.10M U
                        K1=7.63 B2=15.13 1995CCa (74912) 540
                        B(PdH-1L)=0.52
                        B(PdH-2L)=-10.95
                        B(PdH-1L2)=7.87
                        B(PdH-2L2)=-1.18
********************************
C10H26N4
                           CAS 66475-54-5 (5756)
3,10-Diazadodecane-1,12-diamine; NH2.CH2.CH2.NH.(CH2)6.NH.CH2.CH2.NH2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25¢C 0.10M C I M K1=38.14 1985YAa (76766) 541
*******************************
C10H28N2O12P4
             H8L
                           CAS 23605-74-5 (435)
(Hexamethylenedinitrilo)tetra(methylenephosphonic acid);
(CH2.CH2.CH2.N(CH2.PO3H2)2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_______
                         K1=10.83
Pd++ gl KNO3 25♦C 0.10M U
                                  1980ZRb (76841) 542
                        K(PdL+H)=9.56
                        K(PdHL+H)=6.71
                        K(PdH2L+H)=5.73
                        K(PdH3L+H)=4.65
********************************
                           CAS 122844-38-6 (8293)
1-Hydroxy-4-nitroso-2-naphthalenecarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl alc/w RT 40% M K1=4.95 B2= 8.72 1993RAb (76893) 543
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*********************************
                            CAS 32446-26-7 (8294)
             H2L
C11H7N04
3-Hydroxy-4-nitroso-2-naphthalenecarboxylic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      gl alc/w RT 40% M K1=3.89 B2= 7.86 1993RAb (76901) 544
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
************************
                           CAS 86-48-6 (1129)
1-Hydroxy-2-naphthoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl alc/w
              RT
                 40% M
                        K1=6.88 B2=13.31 1993RAb (77015) 545
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*************************
             H2L
                            CAS 92-70-6 (1130)
2-Hydroxy-3-naphthoic acid (3-Hydroxy-2-naphthoic acid);
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
    gl alc/w RT 40% M
                         K1=11.84 B2=17.04 1993RAb (77128) 546
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
************************
                            CAS 29556-13-6 (1450)
N-Phenyl-2-thenoylhydroxamic acid; C4H3SCON(C6H5)OH
------
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
___________
      gl diox/w 25�C 50% M T H K1=9.22 B2=16.97 1977ABb (77351) 547
50% v/v dioxan - water; Data also for complexes with Cu(II), Zn, Ni, Co, Mn
**********************************
                            CAS 80690-05-7 (872)
             H2L
3-Hydroxy-2-methyl-1,4-naphthoquinone monoxime;
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 30¢C 0.10M U K1=5.63 B2=10.22 1981KSa (77365) 548
                         K3 = 4.61
********************************
                           CAS 10335-29-2 (3937)
C11H9N3O
              HL
2-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    sp alc/w 20♦C 50% U K1=17.1 1967ANa (77461) 549
```

```
Medium: 50% MeOH, 0.1 M NaClO4
*****************************
                  PAPHY
                             CAS 2215-33-0 (1305)
Pyridine-2-aldehyde-2'-pyridyl-hydrazone; C5H4N.CH:N.NH.C5H4N
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     gl NaCl 25�C 3.00M U
Pd++
                        М
                                    1981MIb (77710) 550
                          K(PdC12+HL=PdHLC1+C1)=4.00
                          K(PdLC1+H)=5.30
                          K(PdC12+2PdLC1=Pd3L2C14)=8.30
*******************************
                  Antipyrine
                             CAS 60-80-0 (2026)
2,3-Dimethyl-1-phenyl-3-pyrazolin-5-one, Phenazone;
______
       Mtd Medium Temp Conc Cal Flags Lg K values
                                      Reference ExptNo
-----
       sp oth/un ? 0.60M U
                          K1=5.58
                                    1971KBe (78005) 551
Medium: K2SO4
**********************************
                  Tryptophan
                             CAS 73-22-3 (3)
2-Amino-3-(3-indoly1)propanoic acid; H2N.CH(CH2.C8H6N)COOH
    Mtd Medium Temp Conc Cal Flags Lg K values
                                     Reference ExptNo
-----
       gl KNO3
             25♦C 0.50M U
                                    1978LIa (78230) 552
                         K(Pd(en)+L)=10.83
*******************************
              HL
                  Glv-Phe
                             CAS 3321-03-7 (829)
Glycyl-phenylalanine; H2N.CH2.CO.NH.CH(CH2.C6H5).COOH
______
                                    Reference ExptNo
      Mtd Medium Temp Conc Cal Flags Lg K values
.....
Pd++ gl KNO3 25�C 0.20M C
                                    1999AJa (78815) 553
                          B(PdLC1)=17.94
                          B(PdH-1LC1)=16.09
                          B(PdH-2L)=5.30
                          B(PdH-1L2)=20.10
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-1L)=14.10.
Phe-Glv
                             CAS 721-90-4 (830)
C11H14N2O3
Phenylalanyl-glycine; H2N.CH(CH2.C6H5).CO.NH.CH2.COOH
     ______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
    gl KNO3 25�C 0.20M C
Pd++
                                    1999AJa (78828) 554
                          B(PdLC1)=17.58
                          B(PdH-1LC1)=15.20
                          B(PdH-2L)=4.50
                          B(PdH-1L2)=19.20
```

```
Medium: 0.1 M KNO3, 0.1 M KCl. B(PdH-1L)=13.2; B(PdH-2L2)=13.70.
*****************************
                            CAS 4408-81-5 (923)
1,3-Diaminopropane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.)2.CH2
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        K1 = 28.8
      gl oth/un 20♦C 1.00M C
                                  1976AMa (79465) 555
Medium: NaBr/NaClO4. By exchange with PdBr4
**************************
                             (6343)
3,5-Dipropyl-4-ethylpyrazole
______
    Mtd Medium Temp Conc Cal Flags Lg K values
                                    Reference ExptNo
______
Pd++ nmr non-aq 32♦C 100% U
                                  1987FKa (79696) 556
                         K(PdC12+2L)=6.7
Medium: Deuterated DMSO (D6). With N-methyl analogue: K(PdCl2+2L)=9.6;
N-benzyl: K=7.9; N-allyl: K=10.8
**********************************
C12H8N2
                 Phenanthroline CAS 66-71-7 (144)
1,10-Phenanthroline;
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                         K2=9.4
Pd++ sp none 25♦C 0.0 C
                                  1975PJb (80508) 557
                         *K(PdL)=-3.3
                         *K(Pd(OH)L)=-5.9
                         *K(Pd(OH)2L)=-9.6
***********************
C12H10N2O5S
             H3L
                 Tropeolin 0
                           CAS 547-57-9 (1090)
Chrysoin; HS03.C6H4.N:N.C6H3(OH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
-----
     sp oth/un 25�C
                 ? U
                                  1963SDd (80738) 558
                      K(Pd+2HL)=9.4(?)
******************************
                            CAS 5756-88-7 (4001)
1-(4'-Bromophenyl)-3-hydroxy-3-phenyltriazene;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
                         K1=10.86 B2=21.30 1965PSd (80754) 559
      gl diox/w 25♦C 70% U
Medium: 70% dioxan, 0.1 M KCl
*****************************
                            CAS 52756-05-6 (3998)
1-(2'-Chlorophenyl)-3-hydroxy-3-phenyltriazene;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
Metal
                                   Reference ExptNo
```

```
gl diox/w 25%C 70% U K1=10.43 B2=20.43 1964PSg (80761) 560
Medium: 70% dioxan, 0.1 M KCl
********************************
                           CAS 5756-86-5 (3999)
C12H10N3OC1
1-(4'-Chlorophenyl)-3-hydroxy-3-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25¢C 70% U K1=10.70 B2=20.95 1964PSb (80767) 561
Medium: 70% dioxan, 0.1 M KCl
**********************************
                            (4003)
3-Hydroxy-3-phenyl-1-(4'-sulfonyl)triazene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
     gl diox/w 25¢C 70% U K1=9.71 B2=19.03 1964PSf (80942) 562
Medium: 70% dioxan, 0.1 M KCl
                   sp oth/un 25�C ? U
Pd++
                                 1958DSa (80943) 563
                        K(?)=11.52
Acetate buffer
***********************************
C12H12N2S2
             HL
                           CAS 1141-88-4 (7739)
2,2'-Dithiodianiline, 2,2'-Diaminodiphenyl disulfide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp none C K1=6.17 2000GNa (81110) 564
*******************************
                          CAS 1539-42-0 (932)
bis-((2-Pyridyl)methyl)-amine (Di-2-picolylamine); C5H4N.CH2NHCH2.C5H4N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl KNO3 25�C 0.20M C
                                 2003NFa (81289) 565
                       *K(PdL(H20)) = -7.08
***************************
C12H20N2O8
                          CAS 40623-42-5 (1101)
1,2-Diaminoethane-N,N'-di(2-pentane-1,5-dioic acid); (CH2NHCH(COOH)CH2CH2COOH)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl KNO3 30�C 0.10M U K1=13.4
                                 1971STc (82091) 566
********************************
                          CAS 2458-58-4 (922)
1,4-Diaminobutane-N,N,N',N'-tetraethanoic acid; (HOOC.CH2)2N.(CH2)4.N(CH2.COOH)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
gl oth/un 200C 1.00M C
                        K1=25.8
                                     1976AMa (82233) 567
Pd++
Medium: NaBr/NaClO4. By exchange with PdBr4
****************************
C12H2402S4
1,4,7,10-Tetrathia-13,16-dioxacyclooctadecane, 1,4,7,10-Tetrathia-18-crown-6;
     Mtd Medium Temp Conc Cal Flags Lg K values
                                         Reference ExptNo
______
Pd++ ix none 25♦C 0.0 U K1=32.3 1991BTa (83119) 568
************************************
                               CAS 296-39-9 (4938)
C12H24O4S2
1,4,10,13-Tetraoxa-7,16-dithiacyclooctadecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       cal oth/un 25�C 0.50M M H
                                       1990IWa (83141) 569
                            K1=21.1
Medium: 0.5M HNO3. DH(K1)=-82.4 kJ mol-1, DS(K1)= 127.6 J K-1 mol-1.
******************************
C12H24O4S2
                                 (6528)
7,10,13,16-Tetraoxa-1,4-dithiacyclooctadecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
       cal oth/un 25%C 0.50M M H K1=25.1
                                       1990IWa (83151) 570
Medium: 0.5M HNO3. DH(K1)=-184.1 kJ mol-1, DS(K1)= -137 J K-1 mol-1.
*********************************
                               CAS 123-12-6 (4904)
C12H29N3
(N,N,N",N"-Tetraethyl-diethylenetriamine; (C2H5)2N.CH2.CH2.NH.CH2.CH2.N(C2H5)2
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl NaClO4 25�C 0.50M C I
                                       1981GMf (84249) 571
                            K(PdL=PdLOH+H)=-7.688
                            K(PdL+PdLOH)=0.90
In 0.5 NaNO3, K(PdL=PdLOH+H)=-7.677, K(PdL+PdLOH)=0.48
********************************
C12H30N4
                                 (7251)
2,5,8,11-Tetramethyl-2,5,8,11-tetraazadodecane;
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                          M K1=23.38
Pd++
     gl R4N.X 25�C 0.10M C
                                       1998BBa (84292) 572
                            K(PdL+H+C1)=6.85
                            B(PdH-1L)=13.9
                            K(PdL+OH)=4.3
Medium: 0.1 M NMe4Cl
                                 (6740)
Tris(2-(dimethylamino)ethyl)amine; N(CH2CH2.N(CH3)2)3
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl NaCl 25�C 1.00M U I K1=30.5
                                 1993AMa (84303) 573
Pd++ gl oth/un 25♦C 1.00M U M
                                 1993AMa (84304) 574
                       K(Pd(H20)L+C1=PdC1L)=2.6
                        K(Pd(H20)L+Br=PdBrL)=2.8
                        K(Pd(H20)L+SCN=Pd(SCN)L)=5.57
**********************************
                          CAS 296-35-5 (143)
1,4,7,10,13,16-Hexaazacyclooctadecane; cyclo(-(NH.CH2.CH2)6-)
 ._____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ cal NaCl 25♦C 0.50M U HM
                                 1993BBa (84349) 575
DH(2PdCl4+L=Pd2LCl2+6Cl)=-110.8 kJ mol-1
Pd++ gl NaCl 25♦C 0.50M C H K1=29.2
                                 1992BBf (84350) 576
                        B(PdHL)=37.47
                        B(PdH2L)=42.40
                        B(Pd2LC12)=51.8
By calorimetry: DH(PdCl4+H6L)=-6.3 kJ mol-1.
C13H8N2O6Cl2S
                          CAS 60743-06-8 (8478)
2-[(3,5-Dichloro-2-hydroxyphenyl)azo]-5-sulfobenzoic acid;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp NaClO4 RT 0.10M C K1=15.51 1978GSc (84477) 577
********************************
C13H9NO2BrCl
                          CAS 104614-71-3 (9109)
4-Bromo-N-(3-chlorophenyl)-N-hydroxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25�C 50% C M K1=11.13
                                 2001AMc (84578) 578
                       B(Pd(gly)L)=20.61
Medium: 50% v/v dioxane/H20
*******************************
                          CAS 104614-72-4 (9107)
C13H9NO2ClF
N-(3-Chlorophenyl)-4-fluoro-N-hydroxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
- - -
Pd++ gl diox/w 25♦C 50% C M K1=11.34
                                 2001AMc (84586) 579
                     B(Pd(gly)L)=20.98
Medium: 50% v/v dioxane/H20
*********************************
                          CAS 67201-86-9 (9108)
C13H9N02Cl2
             HL
```

```
4-Chloro-N-(3-chlorophenyl)-N-hydroxybenzamide;
_____
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25¢C 50% C M K1=11.15 2001AMc (84594) 580
B(Pd(glv)L)=20.58
                     B(Pd(gly)L)=20.58
Medium: 50% v/v dioxane/H20
*******************************
            H2L
C13H9N3O4S2
                         CAS 2536-61-0 (4031)
1-(1',3'-Thiazol-2'-ylazo)-2-hydroxynaphthalene-6-sulfonic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
·
------
Pd++ gl alc/w 25♦C 50% U I K1=13 B2=19.4 1967NPb (84644) 581
Medium: 50% MeOH, 0.1 M NaClO4. In 0% MeOH: K1=13, K2=5.7
*******************************
C13H10NO2Cl
                         CAS 36016-24-7 (1818)
N-(4-Chlorophenyl)benzohydroxamic acid; C6H5.CO.N(C6H4Cl)OH
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
    gl diox/w 25♦C 70% U K1=9.80 B2=18.21 1967JSa (84719) 582
Medium: 70% dioxan, 0.1 M KCl
******************
                         CAS 78154-49-1 (5649)
C13H10N02Cl
N-3-Chlorophenylbenzohydroxamic acid;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25¢C 50% C M K1=11.47 2001AMc (84742) 583
                     B(Pd(gly)L)=21.29
Medium: 50% v/v dioxane/H20
*************************************
                         CAS 56288-80-1 (4980)
2-Hydroxy-4-(phenylazo)benzaldehyde; C6H5.N:N.C6H3(OH).CHO
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp alc/w 30♦C 50% U B2=7.64
                                1972DTb (84840) 584
********************************
                          CAS 98789-35-6 (5012)
C13H10N2O5S
4-Hydroxy-3-formylazobenzene-4'-sulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp oth/un 30♦C aq U B2=7.22 1972DTb (84923) 585
**************************
C13H10N4O4S
4-Hydroxy-3-(1H-imidazol-2-ylazo)-2-naphtalenesuphonic acid;
______
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp NaCl04 25¢C 0.50M U K1=15.53 1992VMa (84960) 586
For -3-ylazo analogue: K1=10.22; for 3,3-bis(1H-pyrazol-3-ylazo) analogue:
K1=10.99
C13H10N4S
             HL
                         CAS 3788-81-6 (4014)
2-Picolinylaldehyde 2-benzothiazolylhydrazone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ gl diox/w 25¢C 50% U K1=10.33 1965HRa (84967) 587
**********************
                         CAS 88220-26-2 (6572)
C13H1002S
3-(1-Naphthyl)-2-mercaptopropenoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp NaCl04 25♦C 0.10M C K1=15.56 B2=26.40 1989IBb (84976) 588
Medium: Aqueous 0.1 M NaClO4 containing 1-2% EtOH.
**************************
C13H11N02
            HL
                         CAS 304-88-1 (181)
N-Phenylbenzohydroxamic acid; C6H5.CO.N(C6H5).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ EMF diox/w 25♦C 70% U K1=10.11 B2=18.85 1967JSb (85171) 589
Medium: 70% dioxan, 0.1 M KCl
********************
C13H11N3O6S H2L
                           (2811)
1-(2-Carboxy-5-sulfonatophenyl)-3-hydroxy-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp none 25¢C 0.0 U K1=10.398 1974CHa (85304) 590
*********************
C13H12N2S
                          CAS 156873-11-9 (8362)
2-[[1-(2-Pyridinyl)ethylidene]amino]benzene thiol;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
dis NaCl 25♦C 2.0M C
                                1998BMd (85391) 591
K(Pd+2HL(org)=PdL2(org)+2H)=2.9. Method: extraction into CHCl3.
***********************
         L Dithizone
                         CAS 60-10-6 (1801)
Diphenylthiocarbazone; C6H5.NH.NH.CS.N:N.C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_______
Pd++ sp NaCl04 25¢C 0.10M U K1=11.39 B2=21.78 1973BSe (85471) 592
```

```
*********************************
C13H13N30
                          (4018)
3-Hydroxy-1-(2'-methylphenyl)-3-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
           25¢C 0.10M U K1=11.70 B2=22.97 1964PSa (85508) 593
   gl KCl
*************************
C13H13N30
                         CAS 5756-83-2 (4019)
3-Hydroxy-1-(4'-methylphenyl)-3-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KCl 25 C 0.10M U K1=11.89 B2=23.35 1964PSa (85514) 594
CAS 5756-89-8 (4021)
3-Hydroxy-1-(4'-methoxyphenyl)-3-phenyltriazene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
   gl diox/w 25�C 70% U K1=12.06 B2=23.74 1965PSb (85522) 595
Medium: 70% dioxan, 0.1 M KCl
****************************
               Procaine
                        CAS 59-46-1 (4029)
2-(Diethylamino)ethyl 4-aminobenzoate; H2N.C6H4.C02.CH2.CH2.N(C2H5)2
______
     Mtd Medium Temp Conc Cal Flags Lg K values
______
Pd++ sp oth/un 25¢C ? U B2=7.88 1968SPd (86097) 596
********************************
                         CAS 1798-14-7 (921)
C13H22N2O8
(Pentamethylenedinitrilo)tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2CH2
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
     gl oth/un 200C 1.00M C
                       K1 = 26.4
                               1976AMa (86203) 597
Medium: NaBr/NaClO4. Corrected for PdBrx complexes
*****************************
                Ranitidine
                       CAS 66357-35-5 (7144)
N(2-(5-Dimethylaminomethyl)-2-furanylmethyl)thioethyl-N-methyl-2-nitro-1-ethenedia
mine;
      -----
   Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      K1=9.97
   gl NaCl 25�C 0.10M U
                               1995CCa (86332) 598
                      B(PdH-1L)=2.41
                      B(PdH-2L)=-6.88
********************************
1,5-Dithia-8,11,14,17-tetraoxacyclononadecane, 1,5-Dithia-19-crown-6;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     ix none 25♦C 0.0 U K1=29.8
                                 1991BTa (86462) 599
**********************************
                            (7403)
2,5,9,12-Tetramethyl-2,5,9,12-tetraazatridecane;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                       K1=28.3 1998BBa (86579) 600
Pd++ gl R4N.X 25♦C 0.10M C
                        K(PdL+H+C1)=3.6
                        B(PdH-1L)=16.9
                        K(PdL+OH)=2.4
Medium: 0.1 M Me4NCl
************************
C14H9N03
                          CAS 116-85-8 (1020)
1-Amino-4-hydroxyanthraquinone;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
     sp alc/w 20�C 50% U
                        K1=14.21 B2=23.66 1990ISa (86796) 601
Pd++
                        K(Pd+HL)=5.71
                        K(Pd(OH)2L)=31.81
Medium: 50% EtOH/H20, 0.1 M NaClO4
*********************************
                           CAS 482-05-3 (8247)
C14H1004
Diphenyl-2,2'-dicarboxylic acid; diphenic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 30♦C 50% U T H K1=7.00 B2=13.24 1978SJc (86933) 602
Medium: 50% dioxane/H2O, 0.10 M NaClO4. At 40 C, K1=6.52, K2=5.52.
DH and DS values reported.
**********************************
                           CAS 33451-44-4 (5055)
C14H12C12S2
1,2-Bis(4-chlorophenylthio)ethane; Cl.C6H4.S.CH2.CH2.S.C6H4.Cl
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp alc/w 25�C 100% U
                                  1969CCb (87034) 603
                     K(PdI4+L=PdLI2+2I)=-0.68
******************************
C14H12N02Cl
                           CAS 67055-92-9 (6301)
N-(3-Chlorophenyl)-4-methylbenzohydroxamic acid; CH3.C6H4.CO.N(C6H4Cl)OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      M K1=11.65 2001AMc (87066) 604
Pd++ gl diox/w 25♦C 50% C
                        B(Pd(gly)L)=21.66
```

```
Medium: 50% v/v dioxane/H20
______
Pd++ gl diox/w 250C 50% U K1=9.94 B2=18.79 1989PMb (87067) 605
     gl diox/w 25�C 50% U K1=10.05 B2=19.15 1989PMb (87068) 606
Data also for 4-fluoro, 4-chloro, 4-bromo, 4-nitro and 4-methoxy analogues
***********************************
                           CAS 67135-47-1 (9106)
C14H12N03Cl
N-(3-Chlorophenyl)-N-hydroxy-4-methoxybenzamide;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl diox/w 25♦C 50% C M K1=11.82
Pd++
                                 2001AMc (87097) 607
                        B(Pd(gly)L)=22.06
Medium: 50% v/v dioxane/H20
*********************************
C14H12N4O2Br2
                           CAS 72833-87-5 (2533)
2-(2-(3,5-Dibromopyridyl)azo)-5-dimethylaminobenzoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     sp diox/w 25♦C 40% C K1=10.36
                                1986KHa (87319) 608
*****************************
                           CAS 1503-92-0 (1817)
N-(4-Tolyl)benzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25♦C 70% U K1=10.34 B2=19.19 1969JSa (87450) 609
****************************
C14H13N02
                           CAS 1143-74-2 (4044)
N-2-Tolylbenzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_____
Pd++ oth diox/w 25°C 70% U K1=19.02 1968JSc (87482) 610
********************************
C14H13N3O2
                            (4045)
1-(4'-Acetylphenyl)-3-hydroxy-3-phenyltriazene;
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 25¢C 70% U K1=10.97 B2=21.51 1964PSe (87594) 611
Medium: 70% dioxan, 0.1 M KCl
******************************
                            (5394)
C14H13N5OS
1-(2-Pyridylmethylideneamino)-3-(salicylideneamino)thiourea;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
```

```
Pd++
       sp mixed 25♦C 40% U
                                    1985RGa (87617) 612
                          K1eff=5.57
Medium: 40% DMF, pH 4.5
***********************************
                              (5393)
C14H13N502
1-(2-Pyridylmethylideneamino)-3-(salicylideneamino)urea;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp mixed 25♦C 32% U
                                    1985RGa (87624) 613
                       K1eff=5.38
Medium: 32% DMF, pH 4.5
*****************************
         HL
                             CAS 35601-32-2 (5092)
C14H14N4OBr2
5-(3,5-Dibromo-2-pyridylazo)-2-ethylamino-4-hydroxy-1-methylbenzene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
Pd++ sp oth/un ? ? U K1=6.94 1967GUa (87688) 614
**********************************
                             CAS 42311-15-9 (5031)
1,2-Bis(phenylthio)ethane; C6H5.S.CH2.CH2.S.C6H5
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
     sp alc/w 25�C 100% U
                                    1969CCb (87708) 615
                         K(PdI4+L=PdLI2+2I)=0.72
******************************
                            CAS 14337-50-9 (5095)
5-(5-Bromo-2-pyridylazo)-2-ethylamino-4-hydroxy-1-methylbenzene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp oth/un ? ? U
                                    1967GUa (87768) 616
                         K(?)=7.35
*************************
C14H16N2O2S2
                             CAS 729600-10-6 (9255)
2,3,5,6,8,9-Hexahydro[1,4,7,10]dioxadithiacyclododecino[2,3-b]quinoxaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      nmr mixed 25¢C 60% C K1=4.20 2004HHa (87879) 617
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
***********************
C14H16N2O2S2
                            CAS 729600-11-7 (9256)
2,3,5,6,8,9-Hexahydro[1,4,7,10]dioxadithiacyclododecino[8,9-b]quinoxaline;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      nmr mixed 25�C 60% C K1=3.61
                                   2004HHa (87880) 618
```

```
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
********************************
                  Dansyl-Gly CAS 1091-85-6 (5845)
              H2L
N-Dansylglycine, (5-Dimethylamino)naphthalene-1-sulfonoglycine;
(CH3)2N.C10H6.S02.NH.CH2.COOH
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
-----
      vlt NaClO4 25�C 0.10M U
                          K1=17.8 B2=21.8 1990GBb (87901) 619
                          B(PdL(OH))=21.6
                          Beff(PdH-2L2)=21.8
                          Beff(PdH-2L2(OH))=21.6
********************************
              L DPEN
C14H18N4
                             CAS 4608-34-3 (1850)
N,N'-Bis-(2-pyridylmethyl)-1,2-diaminoethane; (C5H4N.CH2.NH.CH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ sp oth/un 250C 1.00M C K1=35.6
                                    1985YAa (88117) 620
Medium: NaBr
********************************
             H5L DTPA
C14H23N3O10
                             CAS 67-43-6 (238)
Diethylenetriamine-pentaethanoic acid; HOOC.CH2.N(CH2.CH2.N(CH2.COOH)2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                        M K1=29.7
Pd++ gl NaClO4 20♦C 1.00M U
                                    1976AMa (89356) 621
                          K(PdL+H)=3.49
                          K(PdHL+H)=2.93
                          K(PdH2L+H)=2.56
                          K(PdH3L+H)=1.93
K(PdL+SCN=PdL(SCN))=1.45;K(PdL+Br=PdBr)=-1.K1 in NaBr by exchange with PdBr4
______
   EMF oth/un 25¢C 0.20M U K1=24.60 1972KIa (89357) 622
****************************
              H4L
C14H24N2O8
                  HMDTA
                             CAS 1633-00-7 (920)
1,6-Diaminohexane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2.CH2)2
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_______
Pd++
      sp NaClO4 20�C 0.10M U I
                                     1983KVa (89596) 623
                          K(PdCl+HL)=17.3
                          B(PdClL(OH))=39.72
                          K(PdClL+OH)=15.60
                          K(PdClL+2OH)=28.35
B(Pd(OH)ClL)=43.72; B(Pd2Cl2(OH)2L)=57.43. Data also at 1.0 M
       gl oth/un 200C 1.00M C K1=26.3 1976AMa (89597) 624
Pd++
Medium: NaBr/NaClO4. By exchange with PdBr4
********************************
```

```
C14H26N2O8
             H2L
                              (6658)
1,4,10,13-Tetraoxa-7,16-diaza-2,3-dicarboxycyclooctadecane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                      K1=8.5 1990AFa (90224) 625
Pd++ gl R4N.X 25♦C 0.10M U
                         B(PdHL)=15.6
**********************
C14H28N6O4
             H2L
                              (832)
N,N,N',N'-Tetrakis(2-carbamoylethyl)diaminoethane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaClO4 25♦C 0.10M C
                                   1986HPa (90505) 626
                         K(Pd+H2L)=11.24
                         K(Pd+H2L=PdHL+H)=8.35
                         K(Pd+H2L=PdL+2H)=4.37
                         K(PdH2L=PdHL+H)=-2.89
K(PdHL=PdL+H)=-3.98
*********************************
                              (7402)
2,6,9,13-Tetramethyl-2,6,9,13-tetraazatetradecane;
------
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                          K1=22.95 1998BBa (90834) 627
Pd++ gl R4N.X 25%C 0.10M C
                         K(PdL+H+C1)=9.30
                         B(PdH-1L)=13.96
                         K(PdL+OH)=4.82
                         K(PdC1HL+H+C1=PdC12H2L)=4.52
Medium: 0.1 M Me4NCl
***********************************
                            CAS 296-85-5 (9052)
1,4,7,10,13,16,19-Heptaazacycloheneicosane;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl NaCl 25�C 0.50M C H K1=24.55
                                   1992BBf (90857) 628
                         B(PdHL)=34.92
                         B(PdH2L)=42.63
                         B(PdH3L)=47.13
                         B(Pd2LC1)=>52
By calorimetry: DH(PdCl4+H7L)=-6.3 kJ mol-1.
*********************************
                            CAS 298-85-5 (5606)
1,4,7,10,13,16,19-Heptaazacycloheneicosane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     cal NaCl 25�C 0.50M U HM
                                   1993BBa (90917) 629
```

```
DH(2PdCl4+L=Pd2LCl2+6Cl)=-119.2 kJ mol-1
***********************************
                              (5128)
4-(5-Bromo-2-pyridylazo)-1-hydroxynaphthalene;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                     dis NaCl
                                    1967GVc (90944) 630
                         K(Pd+HL=PdL+H)=7.05
***********************************
                              (4056)
2-Picolinealdehyde 2'-quinolylhydrazone; C5H4N.CH:N.NH.C9H6N
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
Pd++ gl diox/w 25%C 50% U K1=10.57
                                    1965HRa (91454) 631
****************************
C15H14N03Cl
                             CAS 113581-14-9 (9105)
N-(3-Chlorophenyl)-4-ethoxy-N-hydroxybenzamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl diox/w 25♦C 50% C M K1=11.91
                                    2001AMc (91706) 632
                     B(Pd(gly)L)=22.34
Medium: 50% v/v dioxane/H20
******************************
                             CAS 7397-15-1 (6853)
C15H16N2O2
Peonolphenylhydrazone;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      gl diox/w 20°C 75% U T K1=13.27 B2=26.05 1991NNa (91927) 633
30 C: K1=13.08, K2=12.42; 40 C: K1=12.92, K2=12.38
*******************************
C15H16N4OBr2
                             CAS 14337-54-3 (993)
2-(3,5-Dibromo-2-pyridylazo)-5-diethylaminophenol;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      sp oth/un ? ? U
                                    1967GVb (91942) 634
                         K(Pd+HL=PdL+H)=6.3
*******************************
C15H16S2
                             CAS 42837-97-3 (5105)
1,3-Bis(phenylthio)propane; C6H5.S.CH2.CH2.CH2.S.C6H5
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
       sp alc/w 25♦C 100% U
                                    1969CCa (91967) 635
                          K(PdI4+L=PdLI2+2I)=-1.18
Medium: CH3OH.
```

```
***********************************
C15H17N4OBr
                          CAS 14357-53-2 (712)
2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol; BrC5H3N.N:N.C6H3(OH)N(CH3)2
  Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                - - - '
Pd++
      sp oth/un
              ? ? U
                                 1967GVb (91982) 636
                       K(Pd+HL=PdL+H)=7.0
*****************************
C15H18N2O2S2
                          CAS 729600-13-9 (9258)
2,3,6,7,9,10-Hexahydro-5H-[1,4,7,11]dioxadithiocyclotridecino[2,3-b]quinoxalene;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      nmr mixed 25�C 60% C K1=3.53
                                 2004HHa (92008) 637
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
***********************************
C15H18N40
                          CAS 14337-52-1 (5124)
5-Diethylamino-2-(2-pyridylazo)phenol;
  Mtd Medium Temp Conc Cal Flags Lg K values
-----
     sp oth/un ? ? U
                                 1967GVa (92098) 638
                     K(?)=6.0
*******************************
                DPTN
                          CAS 63671-70-5 (1851)
N,N'-Bis-(2-pyridylmethyl)-1,3-diaminopropane; (C5H4N.CH2.NH.CH2)2CH2
______
    Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp oth/un 25♦C 1.00M C
                       K1 = 39.1
                                 1985YAa (92185) 639
Medium: NaBr
************************************
Diethylenetriamine-N,N,N",N"-tetraethanoic acid-N'-propanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
      dis NaCl ? ? U
                                 1967GVc (92380) 640
                       K(Pd+HL=PdL+H)=6.57
********************************
                          CAS 3803-11-2 (1798)
2,5,8,11,14-Pentamethyl-2,5,8,11,14-pentaazapentadecane;
-----
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl R4N.X 25�C 0.10M C
                      M K1=21.41
                                 1998BBa (92627) 641
                        K(PdL+H)=8.68
                        K(PdHL+H+C1)=5.76
                        B(PdH-1L)=10.95
```

```
K(PdL+OH)=3.4
```

```
Medium: 0.1 M NMe4Cl
**********************************
C16H11N2O7ClS2
                           CAS 4768-88-1 (7743)
4-Chloro-phenylazo-R-acid, 1-(4-Chlorophenylazo)-2-naphthol-3,6-disulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
-----
Pd++ sp oth/un 25♦C
                                   1999HAa (92772) 642
                         K1eff=3.75
                         B2eff=8.55
Medium: Universal Buffer, pH 6.0
**********************************
             H2L
                            CAS 13964-82-4 (3475)
C16H12N2O4S
1-(4-Sulfophenylazo)-2-hydroxynaphthalene;
______
     Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
    sp oth/un 25�C   ? U
                                   1968SDa (93003) 643
                         B2eff=9.8 (pH 4)
*****************************
C16H12N2O11S3
                            CAS 548-81-2 (5180)
2-(4'-Sulfophenylazo)chromotropic acid,
2-(4-sulfophenylazo)-1,8-dihydroxyaphthalene-3,6-diHSO3
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
______
     sp oth/un 25�C dil C
                                   1985SSg (93099) 644
Pd++
                         B2eff=10.0 (pH 3.5)
                         B3eff=15.0 (pH 10.5)
Medium: dilute buffer solution (not stated).
********************************
C16H13N04S
                             (5182)
N-4-Toluenesulfonyl-benzofur-2-yl-carboxamide;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++
     EMF alc/w ? 70% U B2=6.10
                                  1971MSc (93160) 645
Medium: 70% MeOH
***********************************
                 Thorin I
                           CAS 3688-92-4 (2609)
C16H13N2O10AsS2 H5L
1-((2-Arsonophenyl)azo)-2-hydroxy-3,6-naphthalyldisulfonic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
                                  Reference ExptNo
______
                                   1964SDd (93205) 646
     sp oth/un 25�C ? U
                     K1eff=4.4 (pH 3)
**********************************
C16H14N4O2S
                            CAS 83688-78-2 (2534)
2-(2-Benzothiazolylazo)-5-dimethylaminobenzoic acid;
```

```
Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
     sp diox/w 25◊C 40% C K1=9.37
                                  1986KHa (93483) 647
*******************************
1,2-Bis(3-tolylthio)ethane; CH3.C6H4.S.CH2.CH2.S.C6H4.CH3
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                      М
      sp alc/w 25♦C 100% U
Pd++
                                  1969CCb (93901) 648
                        K(PdI4+L=PdLI2+2I)=1.23
Medium: MeOH
***********************************
C16H18S2
                             (5145)
1,2-Bis(4-tolylthio)ethane; CH3.C6H4.S.CH2.CH2.S.C6H4.CH3
------
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                      М
      sp alc/w 25♦C 100% U
Pd++
                                  1969CCb (93902) 649
                        K(PdI4+L=PdLI2+2I)=1.96
********************************
C16H22N4
                 DPTE
                           CAS 81747-99-1 (1852)
N,N-Bis-(2-pyridyl-methyl)-1,4-diaminobutane; (C5H4N.CH2.NH.CH2.CH2)2
-----
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp oth/un 25♦C 1.00M C K1=37.0
Pd++
                                  1985YAa (94183) 650
Medium: NaBr
************************************
                 Pro-Gly-Ala-His
                            (7404)
C16H24N6O5
Prolyl-glycyl-alanyl-histidine;
______
      Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
-----
Pd++ gl KNO3 25♦C 0.20M U
                         K1=15.72
                                  1997THa (94338) 651
                        B(PdHL)=17.58
                        B(PdH-1L)=11.95
Results confirmed by H nmr measurements.
*********************************
                             (6659)
C16H26N2O12
1,4,10,13-Tetraoxa-7,16-diaza-2,3,11,12-tetracarboxycyclooctadecane;
 -----
      Mtd Medium Temp Conc Cal Flags Lg K values
                                   Reference ExptNo
______
      gl R4N.X 25¢C 0.10M U
                         K1=12.1
                                  1990AFa (94591) 652
                        B(PdHL)=18.4
***************
                              ***********************
C16H26N2O12
                           CAS 130190-52-2 (6660)
1,4,10,13-Tetraoxa-7,16-diaza-2,3,7,16-tetracarboxycyclooctadecane;
```

```
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
     gl R4N.X 25�C 0.10M U
                        K1 = 14.1
                                  1990AFa (94605) 653
                        B(PdHL)=20.0
C16H29N308
             H3L
                            (6699)
1,7-Dioxa-4,10,13-triazacyclopentadecane-N,N',N"-triethanoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
K1=16.58
             25♦C 0.10M C
Pd++ gl KCl
                                  1993DSa (94977) 654
                        K(PdL+H)=4.88
                        K(PdHL+H)=2.18
                        B(Pd2L)=19.82
                        K(Pd(OH)L+H)=10.77
*******************************
C16H40N8
                           CAS 297-11-0 (5588)
1,4,7,10,13,16,19,22-Octaazacyclotetracosane;
  ______
Metal Mtd Medium Temp Conc Cal Flags Lg K values
_____
      cal NaCl
             25¢C 0.50M U HM
                                  1993BBa (95661) 655
DH(2PdCl4+L=Pd2LCl2+6Cl)=-118.8 kJ mol-1
*********************************
                           CAS 202867-34-3 (7313)
C17H16N402S
2-[2-(5-Methylbenzothiazolyl)azo]-5-dimethylaminobenzoic acid;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
                   sp alc/w RT 16% C
Pd++
                                  1998FZa (96110) 656
                        K1eff=6.88
Medium: 16% EtOH/H20.
*******************************
C17H20S2
                             (5209)
1,3-Bis(3-tolylthio)propane; CH3.C6H4.S.CH2.CH2.CH2.S.C6H4.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp alc/w 25♦C 100% U
                                  1969CCb (96359) 657
                        K(PdI4+L=PdLI2+2I)=-1.04
Medium: CH3OH.
***********************************
                             (5210)
1,3-Bis(4-tolylthio)propane; CH3.C6H4.S.CH2.CH2.CH2.S.C6H4.CH3
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp alc/w 25♦C 100% U
                                  1969CCb (96360) 658
                        K(PdI4+L=PdLI2+2I)=-0.77
```

```
**********************************
                           CAS 49764-71-3 (5757)
C17H24N4
N,N'-Bis((2-pyridyl)methyl)-1,5-pentanediamine; C5H4N.CH2.NH.(CH2)5.NH.CH2.C5H4N
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
sp oth/un 25�C 1.00M C I M K1=34.7
                                  1985YAa (96436) 659
Medium: NaBr. Ternary complex with Br-
*******************
C18H15O3PS
                           CAS 16704-71-5 (3365)
3-Diphenvlphosphino-benzene sulfonic acid:
______
     Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ ISE NaCl04 25¢C 1.0M U K1=10.2 B2=20.00 1972CBa (97110) 660
                        K3 = 6.3
                        K4=4.9
*******************************
                           CAS 603-35-0 (621)
Triphenylphosphine; (C6H5)3P
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ vlt non-aq 20♦C 100% C
                                  1998ACd (97144) 661
                         K(Pd(Ph)L2+C1)=4.28
                         K(Pd(Ph)L2+Br=3.56
                         K(Pd(Ph)L2+I)=3.23
                         K(Pd(Ph)L2+acetate)=2.88
Medium: DMF. Method: chronoamperometry.
______
     kin non-aq 25�C 100% U T HM
Pd++
                                  1988JHc (97145) 662
                         K(PdABL+L=PdAL2+B)=2.39
Medium: acetonitrile. A=2,5-dioxo-3,6-dichloro-1,4-benzoquinone, B=CH3CN
Data also at 30, 35, 40, 45 C
*********************************
                            CAS 729600-12-8 (9257)
C18H18N2O2S2
2,3,5,6,8,9-Hexahydrobenzo[g][1,4,7,10]dioxadithiacyclododecino[2,3-b]quinoxaline;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
nmr mixed 25�C 60% C
                        K1=3.82
                                 2004HHa (97229) 663
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.
***********************
                           CAS 80284-81-7 (5758)
N,N'-Bis((2-pyridyl)methyl)-1,6-hexanediamine; C5H4N.CH2.NH.(CH2)6.NH.CH2.C5H4N
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
• - - -
Pd++ sp oth/un 25¢C 1.00M C K1=34.7 1985YAa (97679) 664
Medium: KBr. K is only a limiting value
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```
C18H30N4O12
              H6L
                   TTHA
                              CAS 869-52-3 (694)
Triethylenetetraaminehexaethanoic acid;((HOOC.CH2)2N.CH2.CH2.N(CH2.COOH).CH2)2
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
                           K1=18.73
Pd++ gl NaClO4 25�C 0.5M C
                                      1984NAb (98082) 665
                           K(PdL+H)=6.92
                           K(PdH2L+H)=2.50
                           K(PdHL+H)=2.90
                           K(PdH3L+H)=2.45
K(2Pd+L)=27.50; K(Pd2L+H)=3.20
K(Pd2HL+H)=2.0
C18H40N4O4
                              CAS 89066-60-2 (867)
N,N',N",N"'-Tetrakis(2-hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl NaCl04 25¢C 0.10M C K1=18.32 1987HPa (98924) 666
**********************
C18H44N6
                                (7252)
2,5,8,11,14,17-Hexamethyl-2,5,8,11,14,17-hexaazaoctadecane;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl R4N.X 25♦C 0.10M C
                                      1998BBa (98955) 667
                           B(PdHL) = 30.83
                           K(PdHL+H)=7.16
                           B(PdH-1L)=10.75
                           B(Pd2LC12)=44.0
Medium: 0.1 M NMe4Cl. B(Pd2H-1LCl)=33.9, K(Pd2LCl2+H+Cl)=5.8
*********************************
                   Pyrocatechol Vi CAS 369596-29-2 (709)
              H4L
C19H1407S
Pyrocatechol Violet,
3-[3,4-Dihydroxyphenyl-3-hydroxy-4-oxo-2,5-cyclohexadien-1-ylidenemethyl-b.;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
------
      gl KNO3 25�C 0.10M U
                                      1997USa (99112) 668
                           K(Pd+H2L)=8.29
                           K(Pd+HL)=13.67
                           K(PdL+OH)=3.60
                           K(2Pd+HL=Pd2L+H)=15.91
K(Pd2L+OH)=8.25.
***********************************
10-(3-Dimethylamine-2-methyl-propyl)-2-methoxyphenothiazine;
______
Metal
      Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
```

```
Pd++ sp KCl 25¢C 1.00M U K1=4.32 1978JOa (99349) 669
****************************
C21H17N2O3P
                           CAS 215457-01-5 (8001)
Diphenyl-3-(4-methoxyphenylsydnonyl)phosphine;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp non-ag 25♦C 100% C
                                  2001LPb (101075) 670
                        K(PdLC12+benzylamine)=-0.49
                        K(PdLCl2+dibenzylamine)=-0.38
                        K(PdLCl2+diethylamine)=-0.44
                        K(PdLCl2+triethylamine)=-0.69
Medium: CH2Cl2. Also data for dimethylamine, 2-aminopyridine, 4-anisidine,
pyridine, 4-toluidine and aniline.
C21H18N4O6S
             H2L
                           CAS 86170-15-2 (8412)
2-[5-(2-Methoxy-5-sulfophenyl)-3-phenyl-1-formazano]-benzoic acid;
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
      sp NaClO4 26�C 0.10M C K1=14.90
                                 1983UCa (101119) 671
For the ligand, K1=14.4, K2=3.6.
*******************
                           CAS 6163-58-2 (600)
C21H21P
Tri(2-methylphenyl)phosphine (or 4-methyl where indicated); (CH3.C6H4)3P
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp non-aq 25�C 100% U TIHM
                                  1981MKa (101193) 672
                        K(PdA2+L)=3.14
Medium: benzene. HA = trifluoroacetylacetone
**************************
                           CAS 56932-30-0 (5308)
1-Hydroxy-2-(2-N-methylanabasinyl-alpha-azo)naphthalene;
______
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ sp oth/un ? ? U B2=10.53 1966APa (101203) 673
*******************************
                 Fluphenazine CAS 146-56-5 (2548)
C22H26N30F3S
10-[3]-4-(2-Hydroxyethyl)piperazine-1-yl-propyl-2-trifluoromethylphenothiazine;
_____
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
_______
Pd++ sp KCl 25¢C 1.00M U K1=5.13 1978J0a (101926) 674
*************************
C23H16O9C12S
          H4L Chrome azurol S CAS 1667-99-8 (711)
Chromazurol S;
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M-4-7	мта	M = d =	T	C C-1		Da Cananaa FuntNa
Metal 	MTa	Mealum	lemp	conc cai		Reference ExptNo
Pd++	sp	KC1	25 � C	0.10M C	K1=6.36	1975ISa (102565) 675
Pd++	sp	NaNO3	25 ∲ C	0.10M U	B(Pd2L)=9.80 B(Pd2L2)=15.2 K(Pd+HL)=4.90	
Pd++	•	oth/un			K(?)=4.8	1963SDc (102567) 677
C23H1809S			H4L	Erioch	**************************************	• • •
Metal	Mtd	Medium	Temp	Conc Cal	Flags Lg K values	Reference ExptNo
C23H31N3O	***** 14 methy	l-1,7-b:	***** H2L is(4-0	carboxybe	K2eff=5.0 (pH ********** (7088) nzyl)-1,4,7-triazah	*********
Metal	Mtd	Medium	Temn	Conc Cal	Flags Lg K values	Reference ExptNo
riecai		ricaram	ı cp	conc car	. 1482 18 K 141463	
Pd++	gl	NaCl	 25 ∲ C	0.15M C	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4.	1995BBc (102773) 679 0 15 05
Pd++	gl *****	NaCl *****	25 � C *****	0.15M C	M B(PdLCl)=19.1 B(PdHLCl)=23. K(PdLCl+H)=4. ************************************	1995BBc (102773) 679 .0 .15 .05 *************
Pd++ ********* C24H23N90	gl ****** 2 anti	NaCl ****** pyrinyl	25 0 C ***** HL)-3-cy	0.15M C ******* yanoforma	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4. ************************************	1995BBc (102773) 679 .0 .15 .05 ***********
**************************************	gl ****** 22 anti Mtd sp *****	******* pyrinyl Medium NaClO4 ****	25 ¢ C ***** HL)-3-cy Temp 25 ¢ C *****	0.15M C ******* yanoforma Conc Cal 0.10M U ******* Semi-X	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4. *********** (5330) zan;	1995BBc (102773) 679 .0 .15 .05 .******** Reference ExptNo
**************************************	gl ****** 2 -anti Mtd sp ***** (carbo	****** pyrinyl Medium NaClO4 ******	****** HL)-3-cy Temp 25�C ***** H4L	******** /anoforma Conc Cal 0.10M U ******* Semi-X inomethyl	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4. ********** (5330) zan; Flags Lg K values	1995BBc (102773) 679 .0 .15 .05 .******** Reference ExptNo
**************************************	gl ***** 2 -anti Mtd sp ***** (carbo Mtd sp	NaCl ****** pyrinyl Medium NaClO4 ****** oxymethy Medium Medium KNO3	****** HL)-3-cy Temp 25�C ***** H4L y1)am: Temp 25�C	******** yanoforma Conc Cal O.10M U ******* Semi-X inomethyl Conc Cal O.10M C	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4. ************ (5330) zan; Flags Lg K values	1995BBc (102773) 679 .0 .15 .05 .********** Reference ExptNo
**************************************	gl ****** 2anti Mtd Sp ***** (carbe Mtd Sp	NaCl ****** pyrinyl Medium NaClO4 ****** Oxymethy Medium KNO3	****** HL)-3-cy Temp 25�C ***** H4L y1)am: Temp 25�C *****	******** /anoforma Conc Cal O.10M U ******* Semi-X inomethyl Conc Cal O.10M C ********	M B(PdLC1)=19.1 B(PdHLC1)=23. K(PdLC1+H)=4. ************ (5330) zan; Flags Lg K values	1995BBc (102773) 679 .0 .15 .05 .********** Reference ExptNo 1971BSf (102934) 680

```
gl oth/un 25♦C 0.10M U
                                       1986FGa (104461) 682
Pd++
                           K(Pd+HL=0.5(PdL)2)=22.1
Medium not stated.
********************************
                                (7089)
1,4,7,16,19,22-Hexamethyl-1,4,7,16,19,22-hexaaza[9.9]paracyclophane;
-----
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
Pd++ gl R4N.X 25♦C 0.10M C
                                       1999BBd (105354) 683
                            B(PdH2LC1)=37.44
                            B(Pd2LC12)=42.9
                            B(Pd2HLC13)=47.3
Medium: NMe4Cl. Additional method: 1H and 13C nmr.
*******************************
                   Xylenol orange CAS 63721-85-5 (432)
               H6L
5,5'-Bis-N,N-bis(carboxymethyl)aminomethyl-4'-hydroxy-3,3'-dimethylfuchsone-2"-sul
fonic acid;
           Metal Mtd Medium Temp Conc Cal Flags Lg K values
_____
      sp oth/un 25�C ? U
                                      19630Ta (105488) 684
                       K(?)=10.3
**********************************
                               CAS 702699-42-1 (9126)
2,9-Di[4-(1,4,7,10-tetraazacyclotridecane-11,13,-dione)methyl]-1,10-phenanthroline
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl KNO3 25♦C 0.10M U
                                       2004GLa (105774) 685
                            B(PdH2L)=19.82
                            B(Pd2L)=15.83
                            B(Pd3H-2L)=9.93
                            B(Pd3H-3L)=-3.52
B(Pd3H-4L)=-13.72.
********************************
                               CAS 160320-59-2 (7393)
1,4,7-Trimethyl-19,22,28,31-tetraoxa-1,4,7,124,23-pentaaza[9.25]-4-cyclophane;
 .....
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
______
Pd++ gl R4N.X 25♦C 0.10M C
                                       1999BBd (106212) 686
                            B(PdLC1)=23.7
                            B(PdHLC1)=31.1
                            B(PdH2LC1)=36.7
                            K(PdLC1+H)=7.4
Medium: NMe4Cl. Additional method: 1H and 13C nmr. K(PdHLCl+H)=5.6.
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2004AEa M Akatyeva, O Erofeeva, N Dobrynina et al; Koord. Khim. 30, 621 (2004)
           Y Guo, H Lin, Q Ge, S Zhu; J. Coord. Chem., 57,61 (2004)
  2004GLa
          A Holzberger, H Holdt, E Kleinpeter; Org. Biomol. Chem., 2, 1691 (2004)
  2004HHa
  2003AMb C Agoston, Z Miskolczy, Z Nagy, I Sovago; Polyhedron, 22, 2607 (2003)
          J Cosden, R Byrne; Geochim. Cosmo. Acta, 67, 1331 (2003)
  2003CBa
  2003GZa E Gao, D Zhang, O Liu; Acta Chimica Sinica, 61, 1834 (2003)
  2003NFa Z Nagy, I Fabian, A Benyei, I Sovago; J. Inorg. Biochem., 94, 291 (2003)
  2003TMb J Tercero, A Matilla, M Sanjuan, C Moreno; Inorg. Chim. Acta, 342,77 (2003)
  2002BSa Z Bugarcic, M Shoukry, R van Eldik; J.Chem.Soc., Dalton Trans., 3945 (2002)
  2002MSb M Mohamed, M Shoukry; Polydedron, 21, 167 (2002)
           W Wirth, J Blotevogel-Baltronat; Inorg. Chim. Acta, 339, 14 (2002)
  2002WBa
           Z Anwar, H Azab; J.Chem.Eng.Data, 46,34 (2001)
  2001AAa
  2001AMc Y Agrawal, S Menon, P Parekh; Indian J.Chem., 40A, 1313 (2001)
  2001BNa
          B Boka, Z Nagy, K Varnagy, I Sovago; J. Inorg. Biochem., 83,77 (2001)
  2001BPd Z Bugarcic, B Petrovic, R Jelic; Transition Met.Chem., 26,668 (2001)
  2001KKa N Kaminskaia, N Kostic; J.Chem.Soc., Dalton Trans., 1083 (2001)
  2001LPb S Lin, K Peng, T Barclay; Inorg. Chim. Acta, 321, 89 (2001)
  2001MSb M Mohamed, M Shoukry; Polyhedron, 20,343 (2001)
  2001NSa Z Nagy, I Sovago; J.Chem.Soc., Dalton Trans., 2467 (2001)
  2001SHc M Shehata; Transition Met.Chem., 26,198 (2001)
  2000BYa
          R Byrne, W Yao; Geochim. Cosmo. Acta, 64, 4153 (2000)
  2000GNa M Gholivand, N Nozari; Talanta, 52, 1055 (2000)
  2000NFa Z Nagy, I Fabian, I Sovago; J. Inorg. Biochem., 79, 129 (2000)
  2000SAb B Stypinski-Mis, G Anderegg; Anal. Chim. Acta, 406, 325 (2000)
  1999AJa C Agoston, T Jankowska, I Sovago; J.Chem.Soc., Dalton Trans., 3295 (1999)
  1999BBd A Bencini, A Bianchi, P Paoletti; Inorg. Chem., 38, 2064 (1999)
  1999HAa W Hanna; Talanta,50,809 (1999)
  1999SSd M Shoukry, M Shehata, A Abdel-Razik; Monatsh. Chem., 130, 409 (1999)
  1999VWa J van Middlesworth, S Wood; Geochim. Cosmo. Acta, 63, 1751 (1999)
  1998ACd C Amatore, E Carre, A Jutand; Acta Chem. Scand., 52, 100 (1998)
  1998BBa C Bazzicalupi, A Bencini, H Cohen, C Giorgi; J. Chem. Soc., Dalton
Trans., 1625 (1998)
  1998BMd S Bag, J Mukherjee, B Siladitya; Indian J. Chem., 37A, 185 (1998)
  1998ESa S El-Medani, S Shohayeb, M Shoukry; Transition Met.Chem., 23, 287 (1998)
  1998FZa X Fan, G Zhang, C Zhu; Analyst, 123, 109 (1998)
  1998KKf N Kaminskaia, N Kostic; Inorg. Chem., 37, 4302 (1998)
  1998SEb T Shi, L Elding; Acta Chem. Scand., 52,897 (1998)
  1998VTa V Vasic, M Tosic, T Jovaanovic; Polyhedron, 17, 399 (1998)
  1997BCb S Best, T Chattopadhyay, M Djuran, R Palmer; J. Chem. Soc., Dalton
Trans.,2587 (1997)
  1997BLc L Blaha, I Lukes, J Rohovec, P Hermann; J.Chem.Soc., Dalton Trans., 2621
(1997)
  1997KFa A Kiss, E Farkas, I Sovago, B Thormann etc; J.Inorg.Biochem., 68,85 (1997)
  1997LBa I Lukes, L Blaha, F Kesner, J Rohovec; J.Chem. Soc., Dalton Trans., 2629
(1997)
  1997RSa T Rau,M Shoukry,R van Eldik; Inorg.Chem.,36,1454 (1997)
  1997SEa T Shi, L Elding; Inorg. Chem., 36,528 (1997)
  1997THa P Tsiveriotis, N Hadjiliadis, I Sovago; J.Chem.Soc., Dalton Trans., 4267
```

```
(1997)
  1997USa P Upadhya, M Singh, R Vimal, R Nayan; J.Indian Chem.Soc., 74, 367 (1997)
  1997WKa M Wienken, A Kiss, I Sovago, E Fusch et al.; J.Chem.Soc., Dalton Trans., 563
(1997)
          B Wang, P Yang; J. Inorg. Chem. (China), 13, 227 (1997)
  1997WYa
  1996ABc M Abu-Bakr; Indian J.Chem., 35A, 69 (1996)
  1996BRa L Blaha, J Rohovec, P Hermann, I Lukes; Phosphorus, Sulfur &
Silicon, 109-110, 213 (1996)
  1996GTa S Gonzalez, J Tercero, A Matilla et al; J.Inorg.Biochem., 61, 261 (1996)
  1996SEa T Shi, L Elding; Inorg. Chem., 35, 735, 5941 (1996)
  1996SEb M Shoukry, S El-Medani, M Khatab; Monatsh. Chem., 127, 811 (1996)
  1996SEc M Shoukry, R van Eldrik; J.Chem.Soc., Dalton Trans., 2673 (1996)
  1995BBc C Bazzicalupi, A Bencini et al; Inorg. Chem., 34,552 (1995)
  1995CCa G Crisponi, F Cristiani, V Nurchi et al; Polyhedron, 14, 1517 (1995)
  1995GAa C Gammons; Geochim.Cosmo.Acta,59,1655 (1995)
  1994BGa G Battistuzzi, E Gozzoli, M Borsari et al; J.Chem.Soc., Dalton
Trans., 279; 285 (1994)
  1994CAa B Crociani, A Antonaroli, F di Banca et al; J.Chem.Soc., Dalton
Trans.,1145 (1994)
  1994CVa L Canovese, F Visentin, P Uguagliati et al; J. Chem. Soc., Dalton
Trans.,3113 (1994)
  1994PAa R Provencher, K Aye, M Drouin et al; Inorg. Chem., 33, 3689 (1994)
  1994SEa S Suvachittanont, R van Elk; Inorg. Chem., 33, 895 (1994)
  1993AMa G Anderegg, Z Melichar; Helv.Chim.Acta, 76, 1964 (1993)
  1993BBa A Bencini, A Bianchi, P Dapporto et al; Inorg. Chem., 32, 1204, 2753 (1993)
  1993CCa G Crisponi, F Cristiani, F Devillanova et; J.Coord.Chem., 30, 293 (1993)
  1993DSa R Delgado, Y Sun, R Motekaitis et al; Inorg. Chem., 32, 3320 (1993)
  1993GBa C Gammons, M Bloom; Geochim. Cosmo. Acta, 57, 2451 (1993)
  1993RAb M Rizk,N Abdel-Ghani,Y Issa,S Atwa; Egypt.J.Chem.,36,449 (1993)
  1993SHa S Suvachittanont, H Hohmann et al; Inorg. Chem., 32, 4544 (1993)
  1992BBf A Bencini, A Bianchi, M Micheloni; J.Inclusion Phenom., 12, 291 (1992)
  1992VMa V Vasic, A Muk; Polyhedron, 11, 1597 (1992)
  1991BTa R Bruening, B Tarbet; Anal. Chem. (USA), 1014 (1991)
  1991GLb M Ganadu, V Leoni, G Crisponi, V Nurchi; Polyhedron, 10, 333 (1991)
  1991HKg M Hafez, I Kenawy; Bull. Soc. Chim. Fr., 128, 837 (1991)
  1991NNa G Naidu, R Naidu; Indian J.Chem., 30A, 363 (1991)
  1991NSb L Novikov, T Stupko, G Pashkov, V Mironov; Zh. Neorg. Khim., 36,983 (1991)
  1991SKe M Shoukry,I Kenawy,I El-Haj; Transition Met.Chem.,16,637 (1991)
  1991TJa C Tait,D Janecky et al; Geochim.Cosmo.Acta,55,1253 (1991)
  1991WOa S Wood; Geochim.Cosmo.Acta,55,1759 (1991)
  1991ZPa M Zhuravleva, V Pavlishchuk et al; Zh.Neorg.Khim., 36, (7)1737 (1991)
  1990AFa
           A Anantanarayan, T Fyles; Can.J.Chem., 68,1338 (1990)
          G Gavioli, M Borsari, L Menabue et al; J.Chem.Soc., Dalton Trans., 1585
  1990GBb
(1990)
  1990ISa K Idriss, M Saleh et al; Monatsh. Chem., 121, 625 (1990)
          R Izatt, G Wu, W Jiang, N Dalley; Inorg. Chem., 29,3828 (1990)
  1990IWa
  1990MSa H Marafie, N Shuaib et al; J.Inorg.Biochem., 38, 27 (1990)
  1990YKa K Yatsimirskii, A Kozachkova, G Ustyuzhani; Koord. Khim., 16,1110 (1990)
  1989DYa
           D Dyrssen; Marine Chem., 28, 241 (1989)
  1989IBb A Izquierdo, J Beltran; Talanta, 36, 419 (1989)
```

```
1989MEb M Masoud, S El-Thana, A El-Enein; Transition Met.Chem., 14, 155 (1989)
1989PMb P Parekh, S Manon, Y Agrawal; J.Chem.Soc., Perkin Trans.II, 1117 (1989)
1989TSb J Trujillo, Z Sosa, J Arias; Polyhedron, 8, 197 (1989)
1988HEa B Hellquist, L Elding, Y Ducommun; Inorg. Chem., 27, 3620 (1988)
1988JHc W-Y Jeong, R Holwerda; Inorg. Chem., 27, 2571 (1988)
1988LIa S Licht; J.Electrochem.Soc., 135, 2971 (1988)
1988PFb L Pitombo, E Flumignan; Polyhedron, 7,2477 (1988)
1988SKa M Shoukry, E Khairy, A Saeed; J.Coord.Chem., 17,305 (1988)
1988SSe M Sanchez,B Santana,M Pont et al; Polyhedron,7,495 (1988)
1987CMc S Cassou, H Martinez; Polyhedron, 6,447 (1987)
1987DMa Y Ducommun, A Merbach, B Hellquist; Inorg. Chem., 26, 1759 (1987)
1987FKa M Filatova, A Kessenikh et al; Koord. Khim., 13(4)549 (1987)
        R Hay, M Pujari, W Moodie et al; J.Chem.Soc., Dalton Trans., 2605 (1987)
1987HPa
        V Kornev, E Ugryumova, A Trubacheva; Koord. Khim., 13(6)814 (1987)
1987KUa
1987SKb M Shoukry, E Khairy, A Saeed; Transition Met.Chem., 12,315 (1987)
1986AEa N Al-Salem, M El-Ezaby et al; Polyhedron, 5,633 (1986)
1986AHb G Anderegg, H Wanner; Inorg. Chim. Acta, 113, 101 (1986)
1986ANa G Anderegg; Inorg.Chim.Acta,111,25 (1986)
1986CCe J Coello, S Cassou, H Martinez; Polyhedron, 5, 1777 (1986)
1986EOa L Elding, L Olsson; Inorg. Chim. Acta, 117,9 (1986)
1986FGa M Fiallo, A Garnier-Suillerot; Biochemistry, 25,924 (1986)
1986HPa R Hay, M Pujari, N Govan, A Perotti; J.Chem.Soc., Dalton Trans., 2539 (1986)
1986KHa T Katami, T Hayakawa, M Furukawa et al; Anal. Sci. Jpn., 2, 169 (1986)
1986PKa N Pechurova, V Kornev et al; Koord. Khim., 12(5)700 (1986)
1985PGa R Pasternack, E Gibbs et al; J.Am. Chem. Soc., 107, 8179 (1985)
1985RGa D Rosales, G Gonzalez et al; Talanta, 32, 467 (1985)
1985SSg K Saxena, R Saxena; An.Quim., 81,334 (1985)
1984ETa R Ettorre; Inorg.Chim.Acta,91,167 (1984)
1984KMe S Kim, R Martin; J.Am.Chem.Soc., 106, 1707 (1984)
1984MBa N Milic, Z Bugarcic; Transition Met.Chem., 9, 173 (1984)
1984NAb A Napoli; Talanta, 31, 153 (1984)
1983KDa J Kragten, L Decnop-Weever; Talanta, 30,449 (1983)
1983KVa V Kornev, V Valyaeva, L Chourakova; Koord. Khim., 9, 1264 (1983)
1983LIb M-C Lim; J.Chem.Soc., Dalton Trans., 1675 (1983)
1983UCa A Uchiumi; Nippon Kagaku Kaishi (1983)
1982CCa L Canovese, L Cattalini, G Marangoni et al; J.Coord.Chem., 12,63 (1982)
1982HBa C Hunt, A Balch; Inorg. Chem., 21, 1641 (1982)
1982SAa Y Sasaki; Bunseki Kagaku,31,E107 (1982)
1981CMa J Coe, E Mentasti; J.Chem.Soc., Dalton Trans., 2331 (1981)
        J Coe, E Mentasti; J.Chem.Soc., Dalton Trans., 137 (1981)
1981CMb
1981GMf A Giacomelli, F Malatesta, M Spinetti; Inorg. Chim. Acta, 51,55 (1981)
1981KSa M Kamini, S Sindhwani, R Singh; Indian J.Chem., 20A.1040 (1981)
1981LIa M Lim; J.Inorg.Nucl.Chem., 43, 221 (1981)
1981LIb M Lim; Inorg.Chem., 20, 1377 (1981)
1981MIb A Mihkelson; J.Inorg.Nucl.Chem., 43, 127 (1981)
1981MKa S Matsumoto, S Kawaguchi; Bull.Chem.Soc.Jpn.,54,1704 (1981)
1981SDa E Shemyakina, N Dyatlova, O Popov; Zh. Neorg. Khim., 26,686(369) (1981)
1980KDb J Kragten, L Decnop-Weever; Talanta, 27, 685 (1980)
1980KRa J Kragten; Talanta, 27, 375 (1980)
```

```
1980MGa M Masoud, S Ghonaim; Pol.J.Chem., 54,651 (1980)
1980SAc P Srivastava, S Adhya, B Banerjee; J.Indian Chem.Soc.,57,985 (1980)
1980ZRb M Zaki, E Rizkalla; Talanta, 27,709 (1980)
1980ZRc M Zaki, E Rizkalla et al; Talanta, 27,715 (1980)
1979FWa H Frye, G Williams; J. Inorg. Nucl. Chem., 41,591 (1979)
1979MSa H Manohar, D Schwarzenbach, W Iff et al; J.Coord.Chem., 8, 213 (1979)
1979RZb E Rizkalla, M Zaki; Talanta, 26, 979 (1979)
1979SSa J M-Smith, C Sutcliffe et al; J.Am. Chem. Soc., 101, 3995 (1979)
1978CWa J Cooper, L Wong, D Margerum; Inorg. Chem., 17, 261 (1978)
1978GSc S Gholse,P Sharma,R Kharat; J.Indian Chem.Soc.,55,778 (1978)
1978JOa D Jovanovic; Bull.Soc.Chim.Beograd, 43, 247 (1978)
1978KRa J Kragen; Talanta, 25, 239 (1978)
1978LIa M Lim; J.Chem.Soc., Dalton Trans., 726 (1978)
1978POa L Pitombo, E Oliveira; Anal. Chim. Acta, 101, 177 (1978)
1978SJc C Sharma, P Jain; J.Indian Chem. Soc., 55, 892 (1978)
1977ABb S Abbasi; Rocz.Chem.51,821 (1977)
1977CAc E Casassas, J Arias-Leon; J.Chim.Phys., 74,424 (1977)
1977CAd E Casassas, J Arias-Leon; J.Chim.Phys., 74,324 (1977)
1977EOb L Elding, L Olsson; Inorg. Chem., 16, 2789 (1977)
1977LIa M Lim; J.Chem.Soc., Dalton Trans., 1398 (1977)
1977LIb M Lim; J.Chem.Soc., Dalton Trans., 15 (1977)
1977LWa B Lenarcik, M Wisniewski; Rocz. Chem., 51, 1625 (1977)
1976AMa G Anderegg, S Malik; Helv.Chim.Acta, 59, 1498 (1976)
1976HEb R Hancock, A Evers; Inorg. Chem., 15,995 (1976)
1976LMa M Lim, R Martin; J. Inorg. Nucl. Chem., 38, 1911 (1976)
1976YBa A Yatsimirskii,I Beresin; Izv.Akad.Nauk(USSR),7,1490 (1976)
1975CGc M Castillo, F Gonzales; J.Inorg.Nucl.Chem., 37,316 (1975)
1975HSb H Henning, K Schulze, M Muhlstadt; Z.Anorg.Allg.Chem., 412, 10 (1975)
1975ISa P Issopoulos; Compt.Rend., 280C, 1359 (1975)
1975PJb V Parthasarathy, C Jorgensen; Chimia, 29, 210 (1975)
1975VCa F G-Vilchez, M Castillo; J.Inorg. Nucl. Chem., 37, 316 (1975)
1974CHa D Chakrabarti; Anal.Chim.Acta,70,207 (1974)
1974GWa R Graham, D Williams; J.Chem.Soc., Dalton Trans., 1123 (1974)
1974HFa F Hogue, H Frye; Inorg. Nucl. Chem. Lett., 10,505 (1974)
1974KHb J Kollmann, E Hoyer; J. Prakt. Chem., 316, 119 (1974)
1974KKb M Kraitr, R Komers, F Cuta; Anal. Chem. (USA), 46, 974 (1974)
1974SRa V Seshagiri, S Rao; J.Inorg.Nucl.Chem., 36, 353 (1974)
1974VOa I Volchenskova; Zh.Neorg.Khim., 19,2820(E:1540) (1974)
1973BIb J Bishop; Anal.Chim.Acta,63,305 (1973)
1973BSa C Bhandari, N Sogani; Bull. Acad. Polon. Sci. Chim., 21, 239 (1973)
1973BSc C Bhandari,N Sogani; J.Inst.Chem.,(India),45,138 (1973)
1973BSe B Budesinsky, M Sagat; Talanta, 20, 228 (1973)
1973ELa L Elding; Inorg. Chim. Acta, 7,581 (1973)
1973GSc A Gulko, G Schmuckler; J.Inorg.Nucl.Chem., 35,603 (1973)
1973JPa S Joshi, M Pundalik et al; Indian J.Chem., 11, 1297 (1973)
1973KFa P Klotz, S Feldberg, L Newman; Inorg. Chem., 12, 164 (1973)
1973RRc L Romanenko, A Radushev; Zh.Anal.Khim., 28, 10, 1908 (1973)
1972CBa J Chang, J Bjerrum; Acta Chem. Scand., 26, 815 (1972)
1972DTb R Das,C Trivedi; J.Indian Chem.Soc.,49,739 (1972)
1972ELa L Elding; Inorg.Chim.Acta, 6, 647 (1972)
```

```
1972FKa S Feldberg, P Klotz, L Newman; Inorg. Chem., 11, 2860 (1972)
 1972KIa O Kudra, O Izbekova, V Chelikidi; Isvest. VUZ. Khim., 15,5,667 (1972)
 1972KLa V Kerentseva, M Lipanova, L Masko; Zh. Anal. Khim., 27, 4,719 (1972)
  1972MSd S Mandal, T Singh, A Dey; J. Indian Chem. Soc., 49,333 (1972)
  1972NKb B Nabivanets, L Kalabina; Zh.Anal.Khim., 27, 6, 1134 (1972)
 19720La A Osipov, V Likholobov; Isvest. VUZ. Khim., 15,8,1166 (1972)
          T Onauchi, S Matsuhira; Nippon Kagaku Kaishi, 1010 (1972)
 19720Ma
 1972RHa T Rhyl; Acta Chem.Scand., 26, 2961 (1972)
 1972SNc S Srivastava, L Newman; Inorg. Chem., 11, 2855 (1972)
 1972SSe M Singh, M Srivastava; J.Inorg.Nucl.Chem., 34,567;2067;2081 (1972)
  1972VGa M Vargaftik, E German, R Dogonadze et al; Dokl. Akad. Nauk SSSR, 206, 2, 370
(1972)
  1971BSf
          B Budesinsky, J Svec; Inorg. Chem., 10,313 (1971)
          V Dubinskii; Zh.Neorg.Khim.,16,1145(E:607) (1971)
 1971DUa
  1971HMb P Henry, O Marks; Inorg. Chem., 10, 373 (1971)
 1971JPa E Jackson, D Pantony; J. Appl. Electrochem., 1, 113; 283 (1971)
 1971KBe P Knizhko, G Bubleiko et al; Ukr. Khim. Zh., 37,4,316 (1971)
  1971KMh V Kravtsov, L Martynova; Zh. Neorg. Khim., 16,858(E:457) (1971)
  1971MSc W Malik, C Sharma, M Jain, Y Ashraf; J. Inorg. Nucl. Chem., 33, 4333 (1971)
  1971STc O Sunar, C Trivedi; J.Inorg. Nucl. Chem., 33, 3990; 3993 (1971)
 1971TKe C Trivedi, R Kapoor; Proc. Nat. Acad. Sci., India, 41, 101 (1971)
  1970DSb S Dugar, N Sogani; J. Indian Chem. Soc., 47, 479 (1970)
  1970IEa R Izatt,D Eatough,C Morgan et al; J.Chem.Soc.(A),2514 (1970)
  1970NKb B Nabivanets,L Kalabina; Zh.Neorg.Khim.,15,1595(E:818) (1970)
  1970RGa W Rittner, A Gulko, G Schmuckler; Talanta, 17,807 (1970)
  1970SMd S Shrivastawa, K Munshi, A Dey; J.Indian Chem. Soc., 47, 1013 (1970)
  1969BHd G Briscoe, S Humphries; Talanta, 16, 1403 (1969)
  1969CCa L Cattalini, A Cassol, G Marangoni et al; Inorg. Chem., 3,681 (1969)
  1969CCb L Cattalini, A Cassol, G Marangoni et al; Inorg. Chim. Acta, 3, 681 (1969)
  1969GKc M Gelfman, N Kustova; Zh. Neorg. Khim., 14,8,2121 (1969)
 1969GKd M Gelfman, N Kiseleva; Zh. Neorg. Khim., 14,502(E:258) (1969)
          J Jaimni, N Sogani; Bull. Acad. Polon. Sci. Chim., 17, 157 (1969)
  1969JSa
  1969KSc V Kravtsov, I Simakova; Vestnik Leningr. Univ., (Fiz. Khim), 22, 124 (1969)
  1969RJa L Rasmussen, C Jorgensen; Inorg. Chim. Acta, 3,543 (1969)
 1969SOa O Songina, K Ospanov, S Fedosov; Izv. Akad. Nauk (USSR), 4, 20 (1969)
  1968DSa S Dugar, M Sogani; J.Indian Chem.Soc., 45,646 (1968)
  1968GFc V Golodov,A Fasman et al; Zh.Neorg.Khim.,13,3306 (1968)
  1968GHa R Goldberg, L Hepler; Chem. Revs., 68, 229 (1968)
  1968JSb J Jaimni, N Sogani; J.Indian Chem.Soc., 45,59 (1968)
  1968JSc J Jaimni, N Sogani; J.Inst.Chem., (India), 40,52 (1968)
  1968LEc O Levanda; Zh.Neorg.Khim., 13,3311 (1968)
  1968LMb O Levanda, I Moiseev, M Vargaftik; Izv. Akad. Nauk USSR, 2368 (1968)
  1968MBa N Muresan, M Boros, V Muresan et al; Rev.Roumaine Chim., 13, 1055 (1968)
 1968RJa L Rasmussen, C Jorgensen; Acta Chem. Scand., 22, 2313 (1968)
 1968SDa K Saxena, A Dey; Anal. Chem., 40, 1280 (1968)
  1968SPd M Serban, E Popper; Rev.Roumaine Chim., 13, 1051 (1968)
  1968SRg
          J Stary, J Ruzicka; Talanta, 15,505 (1968)
           R Anderson, G Nickless; Anal. Chim. Acta, 39,469 (1967)
  1967ANa
          A Biryukov, V Shlenskaya; Zh. Neorg. Khim., 12,2579 (1967)
  1967BSc
          J Coe, A Malik; Inorg. Nucl. Chem. Lett., 3,99 (1967)
  1967CMb
```

```
1967GGa A Grinberg, M Gelfman, N Kiseleva; Zh. Neorg. Khim., 12, 1171(E:620) (1967)
1967GGd A Grinberg, M Gelfman, N Kiseleva; Zh. Neorg. Khim., 12,1171 (1967)
1967GUa S Gusev et al; Zh.Anal.Khim.,22,376;731;863;1190,1357 (1967)
1967GVa S Gusev, A Vinkova; Zh. Anal. Khim., 22, 4, 522 (1967)
1967GVb S Gusev, V Vinkova; Zh. Anal. Khim., 22, 4, 552 (1967)
1967GVc S Gusev, V Vinkova; Zh. Anal. Khim., 22, 7, 1039 (1967)
1967HPb D Hewkin, A Poe; J.Chem.Soc.(A), 1884 (1967)
1967IEa R Izatt, D Eatough, J Christensen; J. Chem. Soc. (A), 1301 (1967)
1967IWa R Izatt,G Watt,D Eatough,J Christensen; J.Chem.Soc.(A),1304 (1967)
1967JSa J Jaimni, N Sogani; Z.Anorg.Allg.Chem., 355, 332 (1967)
1967JSb J Jaimni, N Sogani; Z.Naturforsch., 22B, 922 (1967)
1967KPc V Kazakova, B Ptitsyn; Zh. Neorg. Khim., 12,620 (1967)
        J Mathur, S Banerji; J.Indian Chem. Soc., 44,513 (1967)
1967MBe
1967NPb G Nickless, F Pollard, T Samuelson; Anal. Chim. Acta, 39, 37 (1967)
1967RBc R Reinhardt, N Brenner, R Sparkes; Inorg. Chem., 6, 254 (1967)
1967SNa S Srivastava, L Newman; Inorg. Chem., 6,762 (1967)
1967STa V Shlenskaya, T Tikhvinskaya et al; Izv. Akad. Nauk (USSR), 10, 2141 (1967)
1966APa T Amirkhanova, V Podgornova, P Shesterova; Uzbeksk.Khim.Zh.,5,21 (1966)
1966BSa A Biryukov, V Shlenskaya, I Alimarin; Izv. Akad. Nauk (USSR), 15,3 (1966)
1966BSd A Biryukov, V Shlenskaya, I Alimarin; Izv. Akad. Nauk (USSR), 3 (1966)
1966PMb S Pestrikov, I Moiseev, L Sverzh; Zh. Neorg. Khim., 11, 1113 (2081) (1966)
1966SBb V Shlenskaya, A Biryukov, E Moskovkina; Zh. Neorg. Khim., 11,54;600 (1966)
1966SNc S Srivastava, L Newman; Inorg. Chem., 5, 1506 (1966)
1966WYa R Wyatt; Chem.Weekblad,62,310 (1966)
1965BKc A Babaeva, E Khananova; Zh. Neorg. Khim., 10, 2579 (1965)
1965FKa A Fasman, G Kutyukov, D Sokolskii; Zh. Neorg. Khim., 10,1338 (1965)
1965HRa M Heit, D Ryan; Anal. Chim. Acta, 32,448 (1965)
1965PSb D Purohit, N Sogani; Indian J.Chem., 3,58 (1965)
1965PSd D Purohit, N Sogani; Z.Naturforsch., 20B, 206 (1965)
1965SLd S Shchukarev,O Lobaneva,M Kononova; Vestnik Leningr.Univ.,4,149 (1965)
1964BSg A Biryukov, V Shlenskaya; Zh. Neorg. Khim., 9,813 (1964)
1964BUa K Burger; Acta Chim.Acad.Sci.Hung.,40,261 (1964)
1964BUe E Buketov, M Ugorets, A Pashinkin; Zh. Neorg. Khim., 9,526 (1964)
        A Golub, G Pomerants; Zh. Neorg. Khim., 9,1624 (1964)
1964GPa
1964MSa K Munshi, S Sangal, A Dey; J.Indian Chem. Soc., 41,701 (1964)
1964PBa N Popovicheva, A Biryukov, V Shlenskaya; Zh. Neorg. Khim., 9,1482 (1964)
1964PSa D Purohit, N Sogani; Bull.Chem.Soc.Jpn.,37,1727 (1964)
1964PSb D Purohit, N Sogani; Bull.Chem.Soc.Jpn., 37, 476 (1964)
1964PSe D Purohit, N Sogani; J.Indian Chem.Soc., 41, 20 (1964)
1964PSf D Purohit, N Sogani; Z.Anal.Chem., 203, 97 (1964)
        D Purohit, N Sogani; Z.Anorg.Chem., 331, 220 (1964)
1964PSg
1964SBe V Shlenskaya, A Bryukov; Vestnik Moskov Univ., 3,65 (1964)
1964SDd S Sangal, A Dey; J. Indian Chem. Soc., 41, 306 (1964)
1964SLb S Shchukarev,O Lobaneva,M Ivanova et al; Zh.Neorg.Khim.,9,2791 (1964)
1963BDa K Burger, D Dyrssen; Acta Chem. Scand., 17, 1489 (1963)
1963BGb S Banerjee, M Garg; Z.Anorg.Chem., 325, 315 (1963)
1963GKa A Grinberg, N Kiseleva, M Gelfman; Dokl. Akad. Nauk SSSR, 153, 1327 (1963)
        M Otomo; Bull.Chem.Soc.Jpn.,36,137,140,889,1341 (1963)
19630Ta
         S Sangal, A Dey; J.Indian Chem. Soc., 40, 279; 464 (1963)
1963SDc
1963SDd R Seth, A Dey; J. Indian Chem. Soc., 40,794 (1963)
```

```
1962REa R Reinhardt; Inorg.Chem., 1,839 (1962)
 1961SLc S Shchukarev,O Lobaneva,M Ivanova et al; Vestnik Leningr.Univ.,10,2,152
(1961)
  1960EAa G Earwicker; J.Chem.Soc., 2620 (1960)
 1958BBb C Banks, D Barnum; J.Am. Chem. Soc., 80, 3579 (1958)
 1958DSa U Durgapal, N Sogani; J.Indian Chem. Soc., 35,542,842 (1958)
 1958MCa A Majumdar, M Chakrabartty; Anal.Chim.Acta, 19,372 (1958)
 1957DBa H Droll, B Block, W Fernelius; J. Phys. Chem., 61,1000 (1957)
 1957JBa E Jungrois, M Bobtelsky; Bull.Res.Council Israel, 7A35 (1957)
 1957ZMa N de Zoubov, J van Muylder et al; Cebelcor Rapp. Tech., 60 (1957)
 1956DRa H Droll; Thesis, Penns. St. Univ., Univ. Microf. 16705 (1956)
 1955MKa W McNevin, O Kriedge; J.Am.Chem.Soc., 77,6149 (1955)
 1952LAb W Latimer; "Oxidation Potentials", Prentice Hall, NY (1952)
 1949MMa L Maley, D Mellor; Australian J.Sci.Res., A, 2;92;579 (1949)
 1948TAb I Tananaev; Zh.Anal.Khim.,3,276 (1948)
 1943TWa D Templeton, G Watt, C Garner; J.Am.Chem.Soc., 65,1608 (1943)
 1942GSa A Grinberg, A Shamsiev; Zh.Obshch.Khim., 12,55 (1942)
 1930WEa H Wellman; J.Am.Chem.Soc.,52,985 (1930)
 1924JIa F Jirsa; Z.Phys.Chem., 113, 241 (1924)
EXPLANATORY NOTES
  DATA Flags are :-
        T Data at other TEMPERATURES
        I Data with various BACKGROUNDS
        H Data for THERMOCHEMICAL quantities
        M Data for TERNARY Complexes
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END Experiments recorded for