

SC-Database

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

\*\*\*\*\*

Br- HL Bromide CAS 10035-10-6 (19)  
Bromide;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd(IV) EMF NaClO4 25°C 0.40M U 1971DUa (2221) 2  
K5=3.48  
K6=2.64

Medium: HClO4

\*\*\*\*\*

Cl- HL Chloride CAS 7647-01-0 (50)  
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

Pd(IV) sol NaCl 25°C 1.0M U 1930WEa (5442) 4  
K(K2PdL6(s)=2K+PdL6)=-5.22

\*\*\*\*\*

e- HL Electron (442)  
Electron;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ vlt none 25°C 0.00 U 1971JPa (794) 5  
K(Pd + 2e=Pd(s))=30.8(0.91V)

-----  
Pd++ EMF oth/un 25°C 4.00M U T 1970IEa (795) 6



$K(\text{Pd(IV)Cl}_6+2e=\text{Pd(II)Cl}_4+2\text{Cl})=43.56(1288 \text{ mV})$  from thermodynamic data  
 \*\*\*\*\*

Br- HL 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(H2O)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

-----  
 Pd++ sp NaClO4 ? 1.0M U K1=2.23 1973GSc (2223) 18  
 -----

Pd++ sp NaClO4 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(PdCl4+L=PdCl3L+Cl)=1.40  
 K(PdCl3L+L=PdCl2L2+Cl)=1.06  
 K(PdCl2L2+L=PdClL3+Cl)=0.72  
 K(PdClL3+L=PdL4+Cl)=0.27

Medium: LiClO4

-----  
 Pd++ cal NaClO4 25°C 1.0M U H 1972RHa (2226) 21  
 Medium: HClO4. DH(K1)=-21.3 kJ mol<sup>-1</sup>, DS(K1)=27.2 J K<sup>-1</sup> mol<sup>-1</sup>

-----  
 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 NaClO4 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<sup>-1</sup>

-----  
 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 B4=13.05 1966BSa (2231) 26  
 -----

Pd++ sp NaClO4 45°C 1.80M U T H 1966SBb (2232) 27  
 K4=2.16

K4=2.50(10 C),2.30(25 C). DH(K4)=-18.0 kJ mol<sup>-1</sup>, DS=-14.6 J K<sup>-1</sup> mol<sup>-1</sup>

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

Pd++ sp NaClO4 25°C 0.50M U 1964SBe (2235) 30

K4=2.20

Pd++ sp NaClO4 20°C 0.80M U K1=4.37 1964SLb (2236) 31

K4=3.50

Medium:0.8(ClO4),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

Pd++ oth none 25°C 0.0 U 1952LAB (2238) 33

B4=13.10

Method: from thermodynamic data; I=0 corr.

\*\*\*\*\*

CN- HL Cyanide CAS 74-90-8 (230)

Cyanide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Pd++ ISE oth/un 25°C ? C 1976HEb (2752) 34

B4=63 (60<B4<65)

K(Pd(CN)2(s)+2CN)=20.8

Kso(Pd(CN)2)=-42

Pd++ sol NaClO4 20°C 0.10M U K1=10.5 1967GGa (2753) 35

Pd++ ISE oth/un 25°C 0.0 U H 1967IWa (2754) 36

B4=42.4

K5=2.9

Medium:0 corr. By calorimetry:DH(B4)=-385.8 kJ mol<sup>-1</sup>, DS=-485 J K<sup>-1</sup> mol<sup>-1</sup>; 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

K(Pd+2e=Pd(s))=33.4

Medium: KCN var

\*\*\*\*\*

CO3--                    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.  $K(\text{PdCl}_4+\text{HCO}_3=\text{Pd}(\text{CO}_3)\text{Cl}_3+\text{H}+\text{Cl})=-6.68$   
 $K=-6.50$  (I=0.305),  $-6.62$  (I=0.505),  $-6.71$  (I=0.705),  $-6.95$  (I=1.005)

\*\*\*\*\*

Cl-                    HL     Chloride                    CAS 7647-01-0 (50)  
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  
 $K(\text{PdCl}_3+\text{Cl})=1.08$   
Data for 0.105-1.0 M NaCl, pH 3.0-8.5.  $K(\text{PdCl}_4+\text{H}_2\text{O}=\text{Pd}(\text{OH})\text{Cl}_3+\text{H}+\text{Cl})=-8.72$ .  
 $K=-8.89$  (I=0.305),  $-8.97$  (I=0.505),  $-8.98$  (I=0.705),  $-8.96$  (I=1.005)

-----  
Pd++            sp NaCl    25°C 0.50M C                    2000BYa (5444) 40  
 $*K(\text{PdCl}_4)=-8.98$   
 $*K: \text{PdCl}_4+\text{H}_2\text{O}=\text{PdCl}_3(\text{OH})+\text{H}$ .

-----  
Pd++            sol KCl    25°C 0.10M C TI M                    1999VWa (5445) 41  
 $B_4=11.81$   
 $K(\text{Pd}+3\text{Cl}+\text{OH})=20.21$   
Data for 20 C and I=0.8 m and for 25 C and I=0.1-1.0 m. At I=0,  $B_4=11.29$ ,  
 $K(\text{Pd}+3\text{Cl}+\text{OH})=20.29$ .

-----  
Pd++            sp NaNO3   37°C 0.16M C                    M                    1998ESa (5446) 42  
 $K(\text{PdA}(\text{H}_2\text{O})_2+\text{Cl})=3.563$   
 $K(\text{PdA}(\text{H}_2\text{O})\text{Cl}+\text{Cl})=2.28$   
A is 1,3-diaminopropane.

-----  
Pd++            gl NaCl04 37°C 0.15M C                    M                    1996GTa (5447) 43  
 $K(\text{PdA}(\text{H}_2\text{O})_2+\text{L})=3.65$   
 $K(\text{PdA}(\text{H}_2\text{O})_2+2\text{L})=5.86$   
 $*K(\text{PdA}(\text{H}_2\text{O})_2+\text{L})=-2.68$   
A=diaminosuccinate diethylester,  $\text{EtO}_2\text{CCH}(\text{NH}_2).\text{CH}(\text{NH}_2)\text{CO}_2\text{Et}$   
 $*K: \text{PdA}(\text{H}_2\text{O})_2+\text{L}=\text{PdA}(\text{H}_2\text{O})(\text{OH})\text{L}+\text{H}$

-----  
Pd++            sol NaCl    100°C 1.0M U T                    1995GAa (5448) 44  
 $K_3=0.30$   
Method: solubility of AgCl in Pt solution, 0.03-3.0 m HCl.  
At 200 C,  $K_3=1.20$ , at 300 C,  $K_3=1.36$

-----  
Pd++            kin NaCl04 25°C 0.10M U                    M                    1993SHa (5449) 45  
 $K_{\text{out}}(\text{PdABH}_2\text{O}+\text{L})=2.28$

Kout(PdACH2O+L)=1.86

A=N,N,N',N'-Tetraethyldiaminoethane, B=Inosine, C=Inosine-5'-monophosphate

---

Pd++ sp oth/un 19°C var U TI 1991TJa (5450) 46  
 K3=2.60  
 K4=1.25

19-90 C. Constants at I=0

---

Pd++ nmr non-aq 24°C 100% U IHM 1982HBa (5451) 47  
 K(PdI2+PdL2=2PdIL)=0.79  
 K(PdBr2+PdL2=2PdBrL)=0.63  
 K(PdCl2+PdL2=2PdCLL)=0.61

Medium: CH2Cl2; Pd as Pd2(bis(diphenylphosphino)methane)2  
 For iodide complex, DH=-5.0 kJ mol-1, DS=12.6 J K-1 mol-1

---

Pd++ oth NaClO4 25°C 0.0 M I K1=5.08 B2= 8.88 1980KRa (5452) 48  
 K3=2.42  
 K4=0.88

Analysis of literature data using Pitzer coefficients. Data for 0.05 to 2.0 M NaClO4. Equation given for ionic strength dependence.

---

Pd++ sp NaClO4 25°C 0.86M U K1=4.0 B2=7.2 1976YBa (5453) 49  
 K3=2.3

When I=0.1 M NaClO4: K1=6.0, K2=4.6, K3=2.5

---

Pd++ sp non-aq 20°C 100% U I 1974V0a (5454) 50  
 K(Pd2L4+2L=Pd2L6)=6.4  
 K(Li+Pd2L6)=1.7

Medium: MeCN, LiCl at different concentrations. With Me4NCl, values are: 7.8, 1.5

---

Pd++ kin NaClO4 25°C 1.0M U M 1973ELa (5455) 51  
 K2(cis)=3.11  
 K2(trans)=2.79  
 K3(cis)=2.59  
 K3(trans)=2.90

Medium: HClO4. K(cis-PdL2(H2O)2=trans-PdL2(H2O)2)=0.32

---

Pd++ sp NaClO4 ? 1.0M U 1973GSc (5456) 52  
 K4=1.27

---

Pd++ sp non-aq ? 100% U M 1973KFa (5457) 53  
 K(PdBr4+L=PdBr3L+Br)=1.24  
 K(PdBr3L+L=PdBr2L2+Br)=1.84  
 K(PdBr2L2+L=PdBrL3+Br)=2.50  
 K(PdBrL3+L=PdL4+Br)=2.39

Medium: MeCN, 1.5 M Bu4N(Cl,Br)

---

Pd++ sp NaClO4 25°C 1.0M U K1=4.47 B2=7.76 1972ELa (5458) 54  
 B3=10.2

B4=11.5

Medium: HClO4

-----  
Pd++ cal NaClO4 25°C 1.0M U H 1972RHa (5459) 55  
Medium: HClO4. DH(K1)=-12.7 kJ mol<sup>-1</sup>, DS=43.1 J K<sup>-1</sup> mol<sup>-1</sup>; 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)=-1.0

Medium: CH3COOH. Method: vapor phase osmometry

-----  
Pd++ vlt NaClO4 25°C 0.20M U 1971JPa (5461) 57  
B3=7.94  
K4=1.44

Medium: HClO4

-----  
Pd++ EMF oth/un 25°C 3.0M U 1971KMh (5462) 58  
K3=1.76  
K4=2.35

Medium: H2SO4

-----  
Pd++ sp NaClO4 ? 1.0M U K1=3.48 B2=6.27 1970RGa (5463) 59  
K3=2.35  
K4=1.1

-----  
Pd++ EMF oth/un ? var U K1=4.7 B2=7.70 1969GKd (5464) 60  
K3=2.6  
K4=1.6

-----  
Pd++ EMF NaClO4 25°C 1.0M U 1969KSc (5465) 61  
B4=12.15

Medium: H(ClO4,S04)

-----  
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=2.00

Medium: 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=11.4

Medium: HClO4. 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  
-----

Pd++ cal NaCl 25°C 0.10M U H 1967IWa (5471) 67  
DH(B4)=-23.0 kJ mol<sup>-1</sup>

---

Pd++ gl NaClO4 var var U 1967KPc (5472) 68  
K(PdCl3OH+Cl=PdCl4+OH)=-5.7

---

Pd++ gl R4N.X 25°C var U T 1967RBc (5473) 69  
K(Pd(NH3)2L+L)=2.33  
K(Pd(NH3)3+L)=3.0  
Medium:NH4(NO3). Also other constants and values at 30 C by spec.

---

Pd++ sp oth/un 25°C 1.0M U T H K1=4.00 B2=7.49 1966SBb (5474) 70  
B3=9.73  
B4=11.11  
Med:1.0(NaClO4),0.8 H+. K4=1.50(10 C), 1.42(25 C), 1.28(45 C). DH(B4)=-11.7  
kJ mol<sup>-1</sup>, DS=-12.1 J K<sup>-1</sup> mol<sup>-1</sup>

---

Pd++ ISE KCl 25°C 1.0M U 1965FKa (5475) 71  
B4=11.8  
K(Pd+2e=Pd(s))=33.4  
also B4 values for 10-60C, assuming same K and 1/RTF as for 25C!

---

Pd++ sp oth/un 25°C 0.0 U I K1=6.0 B2=10.60 1964BSg (5476) 72  
K3=2.5  
K4=2.0  
B4=15.1  
also B4 for I=0.25 to 1.01 M NaClO4

---

Pd++ oth oth/un 25°C 1.0M U K1=3.88 B2=6.94 1964BUa (5477) 73  
K3=2.14  
K4=1.34  
B4=10.42  
K1 by solubility, others by EMF, spec,

---

Pd++ sp NaClO4 25°C 0.50M U 1964SBe (5478) 74  
K4=1.35

---

Pd++ ISE oth/un 19°C var U 1963GKa (5479) 75  
B4=12.2  
K(Pd+2e=Pd(s))=33.4

---

Pd++ sol none 25°C 0.0 U M 1962REa (5480) 76  
Ks=-3.02  
K(trans-Pd(NH3)2L+L)=2.41  
I=0 corr. Ks: Pd(NH3)2L2(s)=Pd(NH3)2L2

---

Pd++ sp NaClO4 20°C 0.80M U K1=4.34 B2=7.88 1961SLc (5481) 77  
K3=2.68  
K4=1.68  
B4=12.24



-----  
Pd++ sp none 21°C 0.0 U T H K1=6.2 B2=10.9 1957DBa (5482) 78  
K3=2.5  
K4=2.6  
DH(K1)=-33 kJ mol<sup>-1</sup>, DS=4.2 J K<sup>-1</sup> mol<sup>-1</sup>; 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<sup>-1</sup> mol<sup>-1</sup>; DH(K6)=0, DS=-38  
-----

Pd++ ISE NaClO4 25°C 4.0M U 1943TWa (5484) 80  
B4=13.22  
-----

\*\*\*\*\*  
FC1BrI HL (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	M		1967GGd (7412)	81
							K(Pd+Cl)=5.1 K(Pd+Br)=6.8 K(Pd+I)=10.0 K(Pd+CN)=10.5		

-----  
Pd++ sp oth/un 27°C 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 kJ mol<sup>-1</sup>, DS=-14.2 j k<sup>-1</sup> MOL<sup>-1</sup>. 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  
-----

Pd++ sp oth/un 25°C 1.10M U 1966BSd (7415) 84  
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 M 1966Snc (7416) 85  
K(PdCl4+Br=PdCl3Br+Cl)=1.55  
K(PdCl3Br+Br=PdCl2Br2+Cl)=1.09

$K(\text{PdCl}_2\text{Br}_2 + \text{Br} = \text{PdClBr}_3 + \text{Cl}) = 0.95$

$K(\text{PdClBr}_3 + \text{Br} = \text{PdBr}_4 + \text{Cl}) = 0.55$

Medium: LiClO4

\*\*\*\*\*

I- HL Iodide CAS 10034-85-2 (20)  
Iodide;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ kin NaClO4 25°C 1.00M U K1=6.08 1986E0a (8319) 86  
-----

Pd++ sp NaClO4 25°C 1.0M U K4=2.56 1977E0b (8320) 87  
K(2PdL4=Pd2L6+2L)=1.32  
-----

Pd++ sp NaClO4 25°C 4.50M U M 1972SNc (8321) 88  
K(PdCl4+L=PdCl3L+Cl)=3.95  
K(PdCl3L=PdCl2L2+Cl)=4.1  
K(PdCl2L2+L=PdClL3+Cl)=2.8  
K(PdClL3+L=PdL4+Cl)=1.30

Medium: LiClO4. Data also for complexes with Br in place of Cl: 2.75, 5.75, 7.45, 8.25. Data for L=Br : 1.55, 2.64, 4.14

-----  
Pd++ sol NaClO4 20°C 0.10M U K1=10.0 1967GGa (8322) 89  
-----

Pd++ ISE oth/un 25°C 1.0M U B4=24 1965FKa (8323) 90

Medium:KI. Also B4 for 10-60C, assuming same K and 1/RTF as for 25C!

-----  
Pd++ sp NaClO4 20°C 0.80M U K1=4.95 1965SLd (8324) 91  
K4=2.92  
B4=15.74  
-----

Pd++ ISE oth/un 19°C var U B4=24.9 1963GKa (8325) 92  
-----

Pd++ sol oth/un 18°C var U K(PdL2(s)+2I=PdL4)=-2.8 1948TAb (8326) 93  
-----

\*\*\*\*\*

NH3 L Ammonia CAS 7664-41-7 (414)  
Ammonia

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl oth/un 25°C 1.0M U H K1=9.56 B2=18.43 1991NSb (9192) 94  
K3=7.52

Medium: H/NH3/NaClO4;

-----  
Pd++ gl KNO3 25°C ? M M K1=6.06 1988SKa (9193) 95  
K(PdA+L)=5.36

A=diethylenetriamine

-----  
Pd++ gl NaClO4 21°C 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) 98  
K3=7.5  
K4=6.8

-----  
Pd++ 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

-----  
Pd++ ISE oth/un 25°C var U 1965FKa (9401) 100  
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

\*\*\*\*\*

OH- 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(H2O)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)(H2O))=-7.16  
K(2Pd(dien)(H2O)=Pd2(dien)2(OH)2)=-10.56.

-----  
Pd++ gl NaNO3 25°C 0.10M C M 2001SHc (11920) 103  
\*K(Pd(bpy)(H2O)2)=-3.91  
\*K(Pd(bpy)(OH)H2O)=-8.09

K(2Pd(bpy)=Pd2H-2(bpy)2)=-4.70

-----  
Pd++ sol NaClO4 25°C 0.50M C TI K1=11.95 B2=23.20 1999VWa (11921) 104

At I=1.0, B2=23.4, B3=26.2. At I=0.1, B2=23.8. Data for 25-85 C.

Pd++ sp NaCl04 25°C 1.0M C 1998SEb (11922) 105  
\*K(Pt(H2O)4)=-3.0

Pd++ gl NaCl04 37°C 0.15M C M 1996GTa (11923) 106  
\*K(PdA(H2O)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

Pd++ sol oth/un 25°C var M B2=18.9 1991W0a (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 NaCl04 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(H2O)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

\*\*\*\*\*  
P04--- H3L Phosphate 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

\*\*\*\*\*  
S-- H2L Sulfide 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.									
*****									
SCN-		HL		Thiocyanate			CAS 463-56-9	(106)	
Thiocyanate;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pd++	sp	NaCl04	30°C	0.10M	U	I	B2=16.2	1973JPa (15222)	118
							B4=25.2		
Medium: HCl04. 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(PdCl4+L=PdCl3L+Cl)=6.03		
							K(PdCl3L+L=PdCl2L2+Cl)=4.09		
							K(PdCl2L2+L=PdClL3+Cl)=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 1964GPa (15227) 123  
Ks(PdI2(s)+L=PdL2L)=-0.47

Pd++ ISE oth/un 19°C var U 1963GKa (15228) 124  
B4=27.6  
K(Pd+2e=Pd(s))=33.4

\*\*\*\*\*  
SO3-- H2L Sulfite CAS 7782-99-2 (801)  
Sulfite;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ con oth/un ? var U 1960EAa (15474) 125  
K(PdL2(OH)(H2O)+H)=9

\*\*\*\*\*  
SO4-- H2L Sulfate CAS 7664-93-9 (15)  
Sulfate;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 25°C 1.0M C 1998SEb (16469) 126  
K(Pd+SO4)=1.28  
K(Pd+HSO4)=-0.15  
K(PdSO4+H)=-0.40

Pd++ vlt NaClO4 25°C 0.20M U B2=3.16 1971JPa (16470) 127  
Medium:HClO4

\*\*\*\*\*  
Se-- H2L Selenide (6335)  
Selenide;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ oth none 25°C 0.0 U 1964BUE (16947) 128  
Kso=-73.4

\*\*\*\*\*  
CH2O2 HL Formic acid CAS 64-18-6 (37)  
Methanoic acid; H.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ kin NaClO4 25°C 1.00M U H K1=3.67 1997SEa (17639) 129  
K(Pd+HL=PdL+H)=0.15  
DH(Pd+HL=PdL+H)=-9.7 kJ mol-1, DS(Pd+HL=PdL+H)=-29 J K-1 mol-1

Pd++ gl KNO3 25°C ? M M K1=2.22 1988SKa (17640) 130  
K(PdA+L)=2.14

A=diethylenetriamine  
\*\*\*\*\*  
CH4N2O L Urea CAS 57-13-6 (2018)







Pd++ sp KCl ? 1.00M U 1973RRc (19244) 144  
B4=32.4

Medium: HCl

\*\*\*\*\*

C2H4 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 M 19720La (19428) 145  
K(PdCl3+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

-----  
Pd++ sol NaClO4 13°C 2.0M U I 1966PMb (19429) 146

K(PdCl4+L=PdCl3L+Cl)=1.19  
K(PdCl3L=PdCl2(H2O)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

\*\*\*\*\*

C2H4O2 HL Acetic acid CAS 64-19-7 (36)  
Ethanoic acid; CH3.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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(Pd3A3CO+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

-----  
Pd++ sp non-aq 25°C 100% U M 19720Ma (20131) 151  
K(PdL2+CeL3=CePdL5)=4.8

Medium: CH3COOH

\*\*\*\*\*

C2H4O2S H2L Thioglycolic CAS 68-11-1 (596)  
Mercaptoethanoic acid; HS.CH2.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaClO4 25°C 1.00M C B2=47.5 2000SAb (20356) 152







-----  
Pd++ gl NaClO4 37°C 0.15M C M 2003Tmb (24533) 178  
K(Pd(en)+L)=5.40  
-----

Pd++ 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 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=-10 J K<sup>-1</sup> mol<sup>-1</sup>  
\*\*\*\*\*

C3H6 L Propylene CAS 115-07-1 (702)  
Propene; CH<sub>3</sub>.CH:CH<sub>2</sub>

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sol oth/un 25°C 2.00M U M 19720La (24755) 180  
K(PdCl<sub>3</sub>+L)=4.97  
K(PdBr<sub>3</sub>+L)=3.72  
K(Pd(NO<sub>2</sub>)<sub>3</sub>+L)=1.39  
K(PdI<sub>3</sub>+L)=1.70

Medium: MgSO<sub>4</sub>

\*\*\*\*\*

C3H6O2 HL Propionic acid CAS 79-09-4 (35)  
Propanoic acid; CH<sub>3</sub>.CH<sub>2</sub>.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 25°C 1.00M U K1=4.32 1996SEa (25040) 181

Pd++ sp alc/w 25°C 100% U M 1994PAa (25041) 182  
K(Pd<sub>3</sub>A<sub>3</sub>CO+L)=3.41

Medium: MeOH. A=Bis(diphenylphosphino)methane

-----  
Pd++ gl KNO<sub>3</sub> 25°C ? M M K1=2.94 1988SKa (25042) 183  
K(PdA+L)=2.60

A=diethylenetriamine

\*\*\*\*\*

C3H6O2S HL CAS 2444-37-3 (1074)  
(Methylthio)ethanoic acid; CH<sub>3</sub>.S.CH<sub>2</sub>.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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  
K<sub>1eff</sub>=4.08

Medium: 1.00 M HClO<sub>4</sub>.

\*\*\*\*\*

C3H6O3 HL L-Lactic acid CAS 79-33-4 (82)  
L-2-Hydroxypropanoic acid; CH<sub>3</sub>.CH(OH).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ kin NaClO4 25°C 1.00M U H K1=3.79 1997SEa (25515) 186  
K(Pd+HL=PdL+H)=1.42  
DH(Pd+HL=PdL+H)=-6.6 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=-18 J K<sup>-1</sup> mol<sup>-1</sup>  
-----

Pd++ gl KNO3 25°C ? M M K1=2.02 1988SKa (25516) 187  
K(PdA+L)=1.89

A=diethylenetriamine

\*\*\*\*\*  
C3H6O3 HL Methoxyacetic CAS 625-45-6 (29)  
Methoxyethanoic acid; CH3.O.CH2.COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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<sup>-1</sup>, DS(Pd+HL=PdL+H)=-18 J K<sup>-1</sup> mol<sup>-1</sup>  
-----

\*\*\*\*\*  
C3H7NO HL CAS 127-06-0 (7906)  
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 D20/acetone mixtures.

Additional methods: 1H and 13C nmr. A is 3,6-dithia-1,8-octanediol.

\*\*\*\*\*  
C3H7NO L DMF CAS 68-12-2 (598)  
N,N-Dimethylformamide; HCO.N(CH3)2  
-----

Metal 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

\*\*\*\*\*  
C3H7NO2 HL Alanine CAS 56-41-7 (86)  
2-Aminopropanoic acid; H2N.CH(CH3).COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M U M 1999SSd (26239) 191  
K(Pd(pn)+L)=11.42

pn is 1,2-diaminopropane. For aminoacid protonation, K1=9.69, B2=11.88.  
-----

Pd++ gl NaNO3 37°C 0.16M M M 1998ESa (26240) 192  
K(PdA+L)=10.90

A is 1,3-diaminopropane.

Pd++ gl KNO3 25°C 0.50M U 1978LIa (26241) 193  
K(Pd(en)+L)=11.22

Pd++ gl KNO3 20°C 0.5M U K1=9.98 B2=18.33 1974KHb (26242) 194  
\*\*\*\*\*  
C3H7NO2 HL 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  
\*\*\*\*\*  
C3H7NO2 HL Sarcosine CAS 107-97-1 (87)  
N-Methyl-2-aminoethanoic acid; CH3.NH.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Pd++ gl KNO3 25°C 0.50M U 1978LIa (26606) 196  
K(Pd(en)+L)=11.28  
\*\*\*\*\*  
C3H7NO2S H2L Cysteine 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

Pd++ gl NaClO4 25°C 1.00M C B2=51.6 2000SAb (26822) 197  
K(Pd+HL)=27.3  
K(Pd+2HL)=45.0  
\*\*\*\*\*  
C3H7NO3 HL Serine CAS 56-45-1 (49)  
2-Amino-3-hydroxypropanoic acid; H2N.CH(CH2.OH)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Pd++ gl NaNO3 25°C 0.10M U M 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 M 1998ESa (27168) 199  
K(PdA+L)=10.19  
K(PdA+L=PdAH-1L+H)=1.90

A is 1,3-diaminopropane.

Pd++ gl KNO3 25°C 0.10M U M T 1981LIb (27169) 200  
K(PdA(H2O)2+L=PdAL+2H2O)=11.01

$$K(\text{PdA}(\text{H}-1\text{L})+\text{H})=8.51$$

A=1,2-diaminoethane

\*\*\*\*\*

C3H8O3S3                      H3L      Unithiol                      CAS 74-61-3 (1271)

2,3-Dimercaptopropanesulfonic acid; HS.CH2.CH(SH).CH2.SO3H

-----  
Metal            Mtd Medium Temp Conc Cal Flags Lg K values                      Reference ExptNo  
-----

Pd++            EMF KNO3            ?   1.00M U                      B2=21.1                      1969SOa (27797) 201

Medium:HNO3

\*\*\*\*\*

C3H9N2O4P                      H2L                      CAS 30211-73-5 (7117)

Glycylaminomethylphosphonic acid;

-----  
Metal            Mtd Medium Temp Conc Cal Flags Lg K values                      Reference ExptNo  
-----

Pd++            g/l    KNO3            25°C 0.10M C                      B2=26.27                      1997BLc (27968) 202

$$B(\text{PdH}-2\text{L}2)=10.99$$

$$B(\text{PdLCl})=20.54$$

$$B(\text{PdH}-1\text{LCl})=16.74$$

$$B(\text{PdH}-2\text{L})=8.67$$

$$B(\text{PdH}-3\text{L})=-1.51$$

-----  
Pd++            g/l    KCl            25°C 0.10M U                      1996BRa (27969) 203

$$K(\text{Pd}+\text{L}+2\text{Cl}+\text{H})=24.48$$

$$K(\text{Pd}+2\text{L})=27.50$$

$$K(\text{Pd}+\text{L}+\text{Cl})=21.35$$

\*\*\*\*\*

C3H10N2                      L                      CAS 78-90-0 (2905)

1,2-Diaminopropane; CH3.CH(NH2)CH2.NH2

-----  
Metal            Mtd Medium Temp Conc Cal Flags Lg K values                      Reference ExptNo  
-----

Pd++            g/l    NaNO3            25°C 0.10M U                      1999SSd (28170) 204

$$*K(\text{PdL})=-5.62$$

$$*K(\text{Pd}(\text{OH})\text{L})=-9.35$$

\*\*\*\*\*

C3H10N2                      L                      Propanediamine                      CAS 109-76-2 (123)

1,3-Diaminopropane; H2N.CH2.CH2.CH2.NH2

-----  
Metal            Mtd Medium Temp Conc Cal Flags Lg K values                      Reference ExptNo  
-----

Pd++            g/l    NaNO3            37°C 0.16M M                      1998ESa (28319) 205

$$*K(\text{PdL}(\text{H}2\text{O})2)=-5.45$$

$$*B2(\text{PdL}(\text{H}2\text{O})2)=-14.58$$

\*\*\*\*\*

C3H11N3                      L                      CAS 21292-99-6 (2975)

Propane-1,2,3-triamine; H2N.CH2.CH(NH2).CH2.NH2

-----  
Metal            Mtd Medium Temp Conc Cal Flags Lg K values                      Reference ExptNo





K(PdA+2L)=13.92

A is 1,3-diaminopropane.

-----  
Pd++ gl KNO3 25°C 0.10M U M 1981LIa (28867) 213  
K(Pd(en)(H2O)2+L)=8.59  
K(Pd(en)(H2O)L+L)=6.79  
K(Pd(dien)(H2O)+L)=8.01  
-----

C4H6N2S HL Methimazole CAS 60-56-0 (1824)  
N-Methyl-2-mercaptoimidazole; C3H2N2(CH3).SH  
-----

Metal 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  
-----  
C4H6O4 H2L Succinic acid CAS 110-15-6 (112)  
1,4-Butanedioic acid; HOOC.CH2.CH2.COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 1.00M U H K1=4.03 1997SEa (30025) 215  
K(Pd+HL=PdL+H)=0.08  
DH(Pd+HL=PdL+H)=10 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=36 J K<sup>-1</sup> mol<sup>-1</sup>  
-----  
C4H6O4 H2L Me-Malonic Acid CAS 516-15-2 (816)  
Methylpropanedioic acid; HOOC.CH(CH3).COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ gl NaClO4 37°C 0.15M C M 2003TMb (30134) 216  
K(Pd(en)+L)=5.68  
-----  
C4H6O5 H2L Malic acid CAS 617-48-1 (393)  
2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH2.CH(OH).COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 1.00M U H K1=3.65 1997SEa (30699) 217  
K(Pd+HL=PdL+H)=0.54  
DH(Pd+HL=PdL+H)=-3.5 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=-1 J K<sup>-1</sup> mol<sup>-1</sup>  
-----  
C4H6O5 H2L Diglycolic acid CAS 110-99-6 (243)  
Di(carboxy)methyl ether, 2,2'-Oxydiethanoic acid; HOOC.CH2.O.CH2.COOH  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 1.00M U H K1=3.46 1997SEa (30914) 218  
K(Pd+HL=PdL+H)=0.64  
DH(Pd+HL=PdL+H)=-12 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=-27 J K<sup>-1</sup> mol<sup>-1</sup>  
-----

C4H7N04 H2L Aspartic acid CAS 56-84-8 (21)  
 Aminobutanedioic acid; H2N.CH(CH2.COOH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaCl	37°C	0.10M	C				2003GZa (31919)	219
									B(Pd(bpy)L)=13.91	
Pd++	gl	none	25°C	0.0	U				1979FWa (31920)	220
									K(PdL2+H)=4.52	
									K(PdHL2+H)=3.68	
									K(PdCl4+2HL=PdH2L2+4Cl)=11.3	
Pd++	gl	NaClO4	25°C	0.10M	U			K1=10.44 B2=18.14	1972SSe (31921)	221
Pd++	gl	KNO3	30°C	0.10M	U			K1=10.55 B2=18.25	1971STc (31922)	222
Pd++	oth	KNO3	30°C	0.13M	U				1971TKe (31923)	223
									K(Pd+H2L=PdHL+H)=10.45	
									K(PdHL+H2L=Pd(HL)2+H)=7.76	

C4H7N04 H2L IDA CAS 142-73-4 (118)  
 Iminodiethanoic acid; HN(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaClO4	20°C	1.00M	C	M		K1=17.5 B2=26.80	1976AMa (32336)	224
									K(Pd+HL)=9.0	
									K(PdL+2Br)=3.83	
Pd++	gl	KCl	25°C	0.1M	U			K1=9.62 B2=14.87	1975CGc (32337)	225
Pd++	EMF	KCl	25°C	0.10M	U			K1=9.62 B2=14.87	1975VCa (32338)	226

C4H8 L But-1-ene CAS 106-98-9 (2985)  
 But-1-ene; CH2:CH.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sol	NaClO4	15°C	5.0M	U	I M			1966PMb (32458)	227
									K(PdCl4+L=PdCl3L+Cl)=1.05	

Medium: LiClO4+HClO4. K=1.14(I=2), 1.13(I=3), 1.13(I=4)  
 K(PdCl4+L=PdCl2(H2O)L+2Cl)=-0.5(I=2), 0.1(I=3), 0.65(I=4), 0.95(I=5)

C4H8N2O2 H2L Dimethylglyoxim CAS 95-45-4 (2032)  
 2,3-Butanedione dioxime, Dimethylglyoxime; CH3.(C:NOH).(C:NOH).CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	dis	NaClO4	25°C	1.0M	U			B2=34.1	1963BDa (32547)	228

K(PdL2+OH)=5.50

-----  
Pd++ sol oth/un 25°C ? U 1958BBb (32548) 229  
Ks2=-3.30

\*\*\*\*\*

C4H8N2O3 HL Asparagine CAS 70-47-3 (17)  
2-Aminobutanedioic acid 4-amide; H2N.CH(CH2.CO.NH2).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M U M 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.

-----  
Pd++ gl NaNO3 37°C 0.16M M M 1998ESa (32721) 231

K(PdA+L)=10.19

K(PdAH-1L+H)=3.33

A is 1,3-diaminopropane.

-----  
Pd++ gl KNO3 25°C 0.50M U M 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

\*\*\*\*\*

C4H8N2O3 HL Gly-Gly CAS 556-50-3 (54)  
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 M 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 37°C 0.16M M M 1998ESa (33049) 236

K(PdA+L)=7.53

K(PdA+L=PdAH-1L+H)=2.88

A is 1,3-diaminopropane.

-----  
Pd++ gl KNO3 25°C 0.10M U M 1977LIb (33050) 237  
K(Pd(en)+L)=9.60  
K(Pd(en)L=PdH-1(en)L+H)=-3.76

\*\*\*\*\*  
C4H8OS L (1882)  
Tetramethylenesulfoxide;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp alc/w 25°C 95% U 1982CCa (33192) 238  
K(PdCl4+L=PdLCl3+Cl)=1.7

\*\*\*\*\*  
C4H8O2 HL CAS 107-92-6 (1118)  
n-Butanoic acid; CH3.CH2.CH2.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

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<sup>-1</sup>, DS(Pd+HL=PdL+H)=-55 J K<sup>-1</sup> mol<sup>-1</sup>  
\*\*\*\*\*  
C4H8O3 HL CAS 594-61-6 (81)  
2-Hydroxy-2-methylpropanoic acid; (CH3)2C(OH).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ kin NaClO4 25°C 1.00M U H K1=4.05 1997SEa (33504) 240  
K(Pd+HL=PdL+H)=1.88

DH(Pd+HL=PdL+H)=-8.1 kJ mol<sup>-1</sup>, DS(Pd+HL=PdL+H)=-21 J K<sup>-1</sup> mol<sup>-1</sup>  
\*\*\*\*\*  
C4H9NO L CAS 127-19-5 (477)  
N,N-Dimethylacetamide; CH3.CO.N(CH3)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp alc/w 25°C 100% U M 1994PAa (33767) 241  
K(Pd3A3CO+L)=-1.15

Medium: MeOH. A=Bis(diphenylphosphino)methane  
\*\*\*\*\*  
C4H9NO2 L CAS 623-33-6 (3011)  
Glycine ethyl ester; H2N.CH2.CO.OCH2CH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M M M K1=6.01 1987SKb (34002) 242  
K(Pd(dien)+L)=2.81

-----  
Pd++ gl KNO3 25°C 0.50M U 1983LIb (34003) 243

K(Pd(en)+L)=7.12

\*\*\*\*\*

C4H9NO2 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  
-----

Pd++ gl KNO3 25°C 0.50M U 1978LIa (34031) 244

K(Pd(en)+L)=11.02

\*\*\*\*\*

C4H9NO2S HL Methylcysteine CAS 1187-84-4 (84)  
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

\*\*\*\*\*

C4H9NO3 HL Threonine 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 M T 1981LIb (34320) 250

K(PdA(H2O)2+L=PdAL+2H2O)=10.96

K(PdA(H-1L)+H)=8.05

A=1,2-diaminoethane

\*\*\*\*\*

C4H9NO3 HL Homoserine CAS 1927-25-9 (578)  
2-Amino-4-hydroxybutanoic acid; HO.CH2.CH2.CH(NH2).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.10M U M 1981LIb (34357) 251  
K(PdA(H2O)2+L=PdAL+2H2O)=11.09  
K(PdA(H-1L)+H)=9.60

A=1,2-diaminoethane

\*\*\*\*\*

C4H9NS L CAS 123-90-0 (3777)

Thiomorpholine, tetrahydro-4H-1,4-thiazine, thiamorpholine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ kin oth/un 25°C 1.00M U 1996SEa (34405) 252  
K1eff=4.30

Medium: 1.00 M HClO4.

\*\*\*\*\*

C4H10N2 L CAS 56123-06-9 (8023)

1,3-Diamino-2-methylenepropane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.50M U K1=13.64 B2=25.27 1975HSb (34490) 253

\*\*\*\*\*

C4H10OS L 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.

\*\*\*\*\*

C4H10O2S L CAS 111-48-8 (4275)

3-Thiapentane-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH

-----  
Metal 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.

\*\*\*\*\*

C4H11N L Diethylamine CAS 109-89-7 (1331)

Diethylamine, 3-azapentane; (C2H5)2NH

-----  
Metal 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.

\*\*\*\*\*

C4H12N2 L Dimeen CAS 110-70-3 (125)

N,N'-Dimethyl-1,2-diaminoethane; CH<sub>3</sub>.NH.CH<sub>2</sub>.CH<sub>2</sub>.NH.CH<sub>3</sub>

---

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaNO <sub>3</sub>	25°C	0.10M	C				2001MSb (35422)	257
								*K(PdL(H <sub>2</sub> O) <sub>2</sub> )=-5.54 *K(PdL(OH)H <sub>2</sub> O)=-9.47 K(2PdL=Pd <sub>2</sub> H-2L <sub>2</sub> +2H)=-7.90		

---

Pd++	gl	NaNO <sub>3</sub>	25°C	0.10M	C	M			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	NaNO <sub>3</sub>	25°C	0.10M	C	M			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, H<sub>3</sub>B=glutathione, H<sub>2</sub>C=cysteine, D=methylamine, E=ethanolamine. Protonation constants also reported.

---

Pd++	gl	NaNO <sub>3</sub>	25°C	0.10M	C	M			2001MSb (35425)	260
								K(PdL+A)=6.38 K(PdL+B)=6.28 K(PdL+C)=4.35 K(PdL+D)=4.09		

Acids: H<sub>2</sub>A=oxalic, H<sub>2</sub>B=malonic, H<sub>2</sub>C=succinic, H<sub>2</sub>D=adipic. Also data for 1,1-cyclobutane dicarboxylic & fumaric. Protonation constants reported.

---

Pd++	gl	NaNO <sub>3</sub>	25°C	0.10M	C	M			2001MSb (35426)	261
								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	NaNO <sub>3</sub>	25°C	0.10M	C	M			2001MSb (35427)	262
								K(PdL+A)=7.40 K(PdL+B)=10.73 K(PdL+C)=12.31		

A=glycinamide, HB=glutamine, HC=asparagine. Protonation constants are reported.

---

Pd++	gl	NaNO <sub>3</sub>	25°C	0.10M	C	M			2001MSb (35428)	263
								K(PdL+A)=7.75		





K(Pd(phen)L+L)=6.18

\*\*\*\*\*

C5H5N5 L Adenine CAS 73-24-5 (237)  
6-Aminopurine; H2N.C5H3N4

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M C M 2001SHc (36975) 272  
K(Pd(bpy)(H2O)2+L)=11.95  
K(Pd(bpy)(H2O)2+H+L)=15.97  
K(Pd(bpy)(H2O)2+2L)=16.59  
K(Pd(bpy)(H2O)2+2L+H)=25.76

K(Pd(bpy)(H2O)2+2L+2H)=30.25.

-----  
Pd++ gl NaNO3 25°C 0.10M U M 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 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 Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M C M 2003NFa (37222) 275  
K(PdA+L)=9.26

A is bis-((2-pyridyl)methyl)amine

-----  
Pd++ gl KNO3 25°C 0.20M C M 2001NSa (37223) 276  
K(Pd(en)+L)=9.07  
K(Pd(en)+2L)=14.88  
\*K(Pd(en)(H2O)L)=-8.53

K(Pd(en)(H2O)+L=Pd(en)(OH)L+H)=0.54,  
K(2Pd(en)(H2O)2+2L=Pd2(en)2(OH)L2+H)=12.58

-----  
Pd++ gl KNO3 25°C 0.20M C M 2001NSa (37224) 277  
K(Pd(pic)+L)=9.57  
K(Pd(pic)+2L)=15.73  
\*K(Pd(pic)(H2O)L)=-7.73

K(Pd(pic)(H2O)+L=Pd(pic)(OH)L+H)=1.84,  
K(2Pd(pic)(H2O)2+2L=Pd2(pic)2(OH)L2+H)=14.58. Hpic=picric acid.

-----  
Pd++ gl KNO3 25°C 0.20M C K1=7.51 2000NFa (37225) 278

\*\*\*\*\*

C5H6N2O2 HL Thymine CAS 65-71-4 (413)  
2,4-Dihydroxy-5-methylpyrimidine; C4HN2(CH3)(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaNO3	25°C	0.10M	C	M		K(PdA+L)=8.56 K(PdA+2L)=15.14 K(PdA+B+L)=15.71	2002MSb (37282)	279
A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.										
Pd++	gl	NaNO3	25°C	0.10M	U	M		K(Pd(pn)+L)=8.90 K(Pd(pn)+2L)=15.80	1999SSd (37283)	280
pn is 1,2-diaminopropane. For nucleotide protonation, K1=9.59.										
Pd++	gl	NaNO3	37°C	0.16M	M	M		K(PdA+L)=8.37 K(PdA+2L)=14.60	1998ESa (37284)	281
A is 1,3-diaminopropane.										
Pd++	gl	KNO3	25°C	0.20M	C			K(PdACl+L=PdAL+Cl)=6.97	1997Wka (37285)	282
PdA is [PdH-1(gly-met)].										
*****										
C5H7N3O HL 1-MeCytosine CAS 1122-47-0 (2268)										
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	M		K(PdA+L)=5.84 K(2PdA+L=Pd2A2H-1L+H)=1.76	2003NFa (37588)	283
A is bis-((2-pyridyl)methyl)amine										
Pd++	gl	KNO3	25°C	0.20M	C	M		K(Pd(en)+L)=6.13 K(Pd(en)+2L)=11.44 *K(Pd(en)(H2O)L)=-5.69	2001NSa (37589)	284
K(Pd(en)(H2O)+L=Pd(en)(OH)L+H)=0.44, K(2Pd(en)(H2O)2+2L=Pd2(en)2(OH)L2+H)=10.41										
Pd++	gl	KNO3	25°C	0.20M	C	M		K(Pd(pic)+L)=8.07 K(Pd(pic)+2L)=13.35 *K(Pd(pic)(H2O)L)=-5.22	2001NSa (37590)	285
K(Pd(pic)(H2O)+L=Pd(pic)(OH)L+H)=2.85, K(2Pd(pic)(H2O)2+2L=Pd2(pic)2(OH)L2+H)=14.06. Hpic=picric acid.										
Pd++	cal	KNO3	25°C	0.20M	C	HM			2000NFa (37591)	286
DH(Pd(dien)+L)=-38.5 kJ mol <sup>-1</sup> ; 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(PdACl+L=PdAL+Cl)=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  
-----

Pd++ gl NaCl 25°C 0.10M C B2=22.96 1993CCa (37688) 288

B(PdH2L2)=44.10

B(PdHL2)=34.58

B(Pd2HL2)=45.46

B(Pd2L2)=38.31

B(Pd2H-1L2)=28.34

\*\*\*\*\*

C5H8O2 HL 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 20°C 0.0 U T H K1=16.7 1957DBa (38056) 289

DH(K1)=-75 kJ mol<sup>-1</sup>, 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

\*\*\*\*\*

C5H8O4 H2L 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 NaCl04 37°C 0.15M C M 2003TMb (38216) 291

K(Pd(en)+L)=5.22

\*\*\*\*\*

C5H9NO2 HL Proline CAS 147-85-3 (44)

Pyrrolidine-2-carboxylic acid; C4H8N.COOH

-----  
Metal 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 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

\*\*\*\*\*

C5H9NO3 HL Hydroxyproline CAS 51-35-4 (416)

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 M 1981LIb (38746) 296

K(PdA(H2O)2+L=PdAL+2H2O)=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

\*\*\*\*\*

C5H9NO4 H2L Glutamic acid CAS 56-86-0 (22)

2-Aminopentanedioic acid; H2N.CH(CH2.CH2.COOH)COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl KCl 25°C 0.1M U B2=38.0 2004AEa (39116) 298

K(Pd+HL)=46.7

K(Pd+2H2L+2Cl)=54.2

K(Pd+2L+OH)=30.1

K(P2d+L+2Cl)=41.9

-----  
Pd++ gl none 25°C 0.0 U 1979FWa (39117) 299

K(PdL2+H)=4.76

K(PdHL2+H)=4.06

K(PdCl4+2HL=PdH2L2+4Cl)=10.0

-----  
Pd++ gl NaClO4 25°C 0.10M U K1=10.38 B2=17.84 1972SSe (39118) 300

\*\*\*\*\*

C5H9NO4 H2L MIDA CAS 4408-64-4 (190)

N-Methyliminodiethanoic acid; CH3.N(CH2.COOH)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp KCl 20°C 0.10M U B2=24.88 1987KUa (39277) 301

\*\*\*\*\*

C5H9NO4S H2L (1736)

3-(Carboxymethyl)thio-L-alanine; HOOC.CH2.S.CH2.CH(NH2)COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ kin NaClO4 25°C 1.0M U 1998VTa (39312) 302

K(Pd+HL=PdL+H)=1.82

K(Pd+H2L=PdHL+H)=2.43

\*\*\*\*\*

C5H9N3 L Histamine CAS 51-45-6 (103)

4(5)-(2'-Aminoethyl)imidazole; C3H3N2.CH2.CH2.NH2

```
-----
Metal      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.
-----
```

```
Pd++       gl  NaNO3  37°C 0.16M M    M                      1998ESa (39544) 304
                                     K(PdA+L)=12.56
```

A is 1,3-diaminopropane.

\*\*\*\*\*

```
C5H10N2O3      HL      Glutamine      CAS 56-85-9 (18)
2-Aminopentanedioic acid 5-amide; H2N.CH(CH2.CH2.CO.NH2)COOH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pd++       gl  NaNO3  25°C 0.10M U    M                      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  37°C 0.16M M    M                      1998ESa (39832) 306
                                     K(PdA+L)=9.29
                                     K(PdA+L=PdAH-1L+H)=-0.43
```

A is 1,3-diaminopropane.

```
-----
Pd++       gl  KCl    25°C 0.50M U    M                      1977LIa (39833) 307
                                     K(Pd(en)+L)=10.8
                                     *K(Pd(en)L)=-9.03
-----
```

\*\*\*\*\*

```
C5H10N2O3      HL      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
-----
Pd++       gl  KNO3   25°C 0.20M C                      1999AJa (39893) 308
                                     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.

\*\*\*\*\*

```
C5H10N2O3      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-1LCl)=16.01  
B(PdH-2L)=4.80  
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 M 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.

\*\*\*\*\*

C5H10N2O3 HL Gly-b-Ala CAS 7536-21-2 (9057)  
Glycyl-beta-alanine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl oth/un 25°C 0.20M C K1=17.11 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 HL B-Ala-Gly CAS 2672-88-0 (4323)  
beta-Alanyl-glycine; H2N.CH2.CH2.CO.NH.CH2.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl oth/un 25°C 0.20M C K1=14.12 2003AMb (40051) 312  
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.

\*\*\*\*\*

C5H10N4O3 L CAS 54376-69-1 (8335)  
N,N'-Carbonylbis(2-aminoacetamide);

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ 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.

\*\*\*\*\*

C5H10O5S2 HL CAS 110-50-9 (591)  
(Butoxy)dithiomethanoic acid; CH3.CH2.CH2.CH2O.CSSH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ dis oth/un 25°C 0.25M U B2=>24 1982SAa (40163) 314

\*\*\*\*\*

C5H11N L Piperidine CAS 110-89-4 (105)  
Perhydropyridine; cyclo(-CH2.CH2.CH2.NH.CH2.CH2-) C5H11N









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 L Benzene CAS 71-43-2 (2143)  
Benzene, cyclohexatriene;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ sp alc/w 25°C 100% U M 1994PAa (43169) 336  
K(Pd3A3CO+L)<-1.15

Medium: MeOH. A=Bis(diphenylphosphino)methane

\*\*\*\*\*

C6H6NBr L 3-Bromoaniline CAS 591-19-5 (758)  
3-Bromoaniline; H2N.C6H4.Br

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 2.00M U M 1972VGa (43177) 337  
K(M(H2O)4+L=M(H2O)3L+H2O)=6.30

Medium: HClO4

\*\*\*\*\*

C6H6N2O2 L m-Nitroaniline CAS 99-09-2 (464)  
3-Nitroaminobenzene; H2N.C6H4.NO2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 2.00M U M 1972VGa (43389) 338  
K(M(H2O)4+L=M(H2O)3L+H2O)=5.68

Medium: HClO4

\*\*\*\*\*

C6H6N2O2 L p-Nitroaniline CAS 100-01-6 (465)  
4-Nitroaminobenzene; H2N.C6H4.NO2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ kin NaClO4 25°C 2.0M U 1972VGa (43405) 339  
K(Pd(H2O)4+L=Pd(H2O)3L)=4.53

\*\*\*\*\*

C6H6O2 H2L Catechol CAS 120-80-9 (534)  
1,2-Dihydroxybenzene, pyrocatechol; HO.C6H4.OH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ sp NaClO4 25°C 0.20M U 1981CMb (43807) 340  
K(Pd+H2L=PdL+2H)=-2.2

\*\*\*\*\*

C6H6O4 HL Kojic acid CAS 501-30-4 (1800)  
5-Hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;

```

-----
Metal      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.
*****
C6H7N          L   Aniline          CAS 62-53-3 (583)
Aminobenzene, aniline; C6H5.NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pd++      kin NaClO4 25°C 2.00M U   M          1972VGa (44876) 342
          K(M(H2O)4+L=M(H2O)3L+H2O)=7.20
Medium: HClO4
*****
C6H7N5          HL  9-Methyladenine  CAS 700-00-5 (4347)
9-Methyl-6-aminopurine;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pd++      gl  KNO3   25°C 0.20M C          1997Wka (45172) 343
          K(PdACl+L=PdAL+Cl)=4.33
PdA is [PdH-1(gly-Met)].
*****
C6H8N2          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
-----
Pd++      gl  NaClO4 25°C 0.10M C          1997RSa (45359) 344
          *K(PdL(H2O)2)=-4.43
          *B2(PdL(H2O)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   M          2001NSa (45383) 345
          K(Pd(en)+L)=9.05
          K(Pd(en)+2L)=14.76
          *K(Pd(en)(H2O)L)=-8.44
K(Pd(en)(H2O)+L=Pd(en)(OH)L+H)=0.61,
K(2Pd(en)(H2O)2+2L=Pd2(en)2(OH)L2+H)=12.70
-----

```

```

-----
Pd++      gl  KNO3   25°C 0.20M C   M          2001NSa (45384) 346
          K(Pd(pic)+L)=9.56
          K(Pd(pic)+2L)=15.40
          *K(Pd(pic)(H2O)L)=-8.00
-----

```





By exchange with PdBr4.  $K(\text{PdL}+\text{Br})=2.7$

\*\*\*\*\*

C6H9N3O2 HL Histidine CAS 71-00-1 (1)  
2-Amino-3-(4'-imidazolyl)propanoic acid;  $\text{H}_2\text{N}.\text{CH}(\text{CH}_2.\text{C}_3\text{H}_3\text{N}_2)\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M U M 1999SSd (47602) 364  
 $K(\text{Pd}(\text{pn})+\text{L})=14.75$

pn is 1,2-diaminopropane. For aminoacid protonation,  $K_1=9.53$ ,  $B_2=15.81$ ,  
 $B_3=17.81$ .

-----  
Pd++ gl NaNO3 37°C 0.16M M M 1998ESa (47603) 365  
 $K(\text{PdA}+\text{L})=12.48$

A is 1,3-diaminopropane.

\*\*\*\*\*

C6H10O4S H2L CAS 111-17-1 (139)  
3,3'-Thiodipropanoic acid;  $\text{HOOC}.\text{CH}_2.\text{CH}_2.\text{S}.\text{CH}_2.\text{CH}_2.\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaCl 25°C 0.50M U M 1987CMc (48193) 366

$K(\text{PdCl}_4+\text{L}=\text{PdCl}_3\text{L}+\text{Cl})=5.42$   
 $K(\text{PdCl}_3\text{L}+\text{L}=\text{PdCl}_2\text{L}_2+\text{Cl})=2.87$   
 $K(\text{PdL}_2+\text{Cl})=4.30$   
 $K(\text{PdL}_2\text{Cl}+\text{Cl})=2.51$

-----  
Pd++ sp NaClO4 25°C 0.50M U 1986CCe (48194) 367

$B(\text{PdH}_2\text{L})=16.71$   
 $B(\text{PdH}_4\text{L}_2)=31.60$   
 $K(\text{Pd}+\text{H}_2\text{L})=7.40$   
 $K(\text{PdH}_2\text{L}+\text{H}_2\text{L})=5.58$

\*\*\*\*\*

C6H10O4S2 H2L CAS 7244-02-2 (438)  
1,2-Bis(carboxymethylthio)ethane;  $\text{HOOC}.\text{CH}_2.\text{S}.\text{CH}_2.\text{CH}_2.\text{S}.\text{CH}_2.\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C 0.10M U  $K_1=4.48$   $B_2=6.91$  1978POa (48249) 368

\*\*\*\*\*

C6H10O4S2 H2L CAS 1119-62-6 (3697)  
3,3'-Di(thiopropoic acid);  $\text{HOOC}.\text{CH}_2.\text{CH}_2.\text{S}.\text{S}.\text{CH}_2.\text{CH}_2.\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 25°C 0.50M U 1986CCe (48270) 369

$B(\text{PdH}_2\text{L})=15.25$   
 $B(\text{Pd}_2\text{H}_2\text{L})=19.67$   
 $K(\text{Pd}+\text{H}_2\text{L})=5.92$   
 $K(\text{PdH}_2\text{L}+\text{H}_2\text{L})=10.34$

\*\*\*\*\*

C6H10O4Se2 H2L CAS 86515-79-7 (6099)  
Ethylene-bis-selenoglycolic acid; HOOC.CH2.Se.CH2.CH2.Se.CH2.COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ con NaCl 25°C 3.00M C K1=6.32 B2=11.97 1988PFb (48297) 370  
-----

\*\*\*\*\*  
C6H11NO2 HL CAS 89203-64-5 (3435)  
1-Pyrrolidine-1-ethanoic acid, 1-Azacyclopentane-1-ethanoic acid;

-----  
Metal 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  
-----

C6H11NO4 H2L Amino adipic 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  
-----  
Pd++ gl none 25°C 0.0 U 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(PdLCl)=17.91  
B(PdH-1LCl)=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

\*\*\*\*\*

C6H12 L CAS 592-41-6 (2771)  
1-Hexene; CH2:CH(CH2)3.CH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ oth non-aq 30°C 100% U M 1974KKb (49012) 375

K(PdCl2+L)=0.28

Medium: N-methylacetamide

\*\*\*\*\*



C6H12 L CAS 760-21-4 (2772)  
 2-Ethyl-1-butene; CH2:C(C2H5).CH2.CH3  
 -----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----  
 Pd++ oth non-aq 30°C 100% U M 1974KKb (49015) 376  
 K(PdCl2+L)=-0.89

Medium: N-methylacetamide  
 \*\*\*\*\*

C6H12 L 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  
 -----  
 Pd++ oth non-aq 30°C 100% U M 1974KKb (49017) 377  
 K(PdCl2+L)=-0.85

Medium: N-methylacetamide  
 \*\*\*\*\*

C6H12 L CAS 691-37-2 (2767)  
 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-aq 30°C 100% U M 1974KKb (49019) 378  
 K(PdCl2+L)=0.18

Medium: N-methylacetamide  
 \*\*\*\*\*

C6H12 L 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-aq 30°C 100% U M 1974KKb (49021) 379  
 K(PdCl2+L)=0.11

Medium: N-methylacetamide  
 \*\*\*\*\*

C6H12 L (2768)  
 cis-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2  
 -----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----  
 Pd++ oth non-aq 30°C 100% U M 1974KKb (49023) 380  
 K(PdCl2+L)=0.26

Medium: N-methylacetamide  
 \*\*\*\*\*

C6H12 L CAS 4050-45-7 (2773)  
 trans-2-Hexene; CH3.CH:CH.CH2.CH2.CH3  
 -----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----

Pd++ oth non-aq 30°C 100% U M 1974KKb (49025) 381  
K(PdCl2+L)=-0.31

Medium: N-methylacetamide

\*\*\*\*\*

C6H12 L CAS 4461-48-7 (2769)  
trans-4-Methyl-2-pentene; CH3.CH:CH.CH(CH3)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ oth non-aq 30°C 100% U M 1974KKb (49027) 382  
K(PdCl2+L)=-0.42

Medium: N-methylacetamide

\*\*\*\*\*

C6H12N2O3 HL B-Ala-B-Ala CAS 34322-87-7 (2118)  
3-Alanyl-3-alanine; H2N.CH2.CH2.CO.NH.CH2.CH2.COOH

-----  
Metal 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.

\*\*\*\*\*

C6H12O2S2 HL 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 25°C 0.10M U K1=6.34 B2=11.03 1978POa (49451) 384  
\*\*\*\*\*

C6H13NO2 HL Isoleucine CAS 73-32-5 (424)  
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 20°C 0.5M U K1=9.71 B2=18.15 1974KHb (49911) 385  
\*\*\*\*\*

C6H13NO2 HL 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  
-----

Pd++ gl KNO3 25°C 0.50M U T 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  
\*\*\*\*\*

C6H13NO2S HL Ethionine CAS 67-21-0 (1909)  
2-Amino-4-(ethylthio)butanoic acid; CH3.CH2.S.CH2.CH2.CH(NH2).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaClO4 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  
-----

\*\*\*\*\*  
C6H13N3O3 HL Citrulline (579)  
2-Amino-5-ureidovaleic acid; H2N.CO.NH.CH2.CH2.CH2.CH(NH2).COOH  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.10M C B2=16.23 1991GLb (50585) 390  
-----

\*\*\*\*\*  
C6H14N2O2 HL Lysine CAS 56-87-1 (41)  
2,6-Diaminohexanoic acid; H2N.(CH2)4.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 (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 M 1998ESa (50831) 392  
-----

K(PdA+L)=9.28  
K(PdA+H+L)=19.03  
-----

A is 1,3-diaminopropane.  
-----

\*\*\*\*\*  
C6H14O2S L CAS 10595-09-2 (3698)  
3,3'-Thiodipropanol; S(CH2CH2CH2OH)2  
-----

-----  
Metal 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.  
-----

\*\*\*\*\*  
C6H14O2S2 L CAS 5244-34-8 (4390)  
3,6-Dithiaoctan-1,8-diol; HO.CH2.CH2.S.CH2.CH2.S.CH2.CH2.OH  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp KCl 25°C 1.00M U B2=21.63 1991ZPa (51038) 394  
-----

\*\*\*\*\*  
C6H18N4 L Trien-tetramine CAS 112-24-3 (11)  
1,4,7,10-Tetraazadecane; H2N.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.NH2  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ gl NaClO4 25°C 1.00M C I M K1=40.1 1985YAa (52131) 395  
\*\*\*\*\*  
C6H18N4 L Tren CAS 4097-89-6 (817)  
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 M B(Pd2L2)=77.4 1986ANa (52207) 396  
Ternary complexes with Cl-, Br-, I- and SCN-. pH-metric and spec. study.  
\*\*\*\*\*  
C7H5N L Cyanobenzene CAS 100-47-0 (4406)  
Cyanobenzene, benzonitrile; C6H5.CN  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ sp alc/w 25°C 100% U M K(Pd3A3CO+L)=0.13 1994PAa (52570) 397  
Medium: MeOH. A=Bis(diphenylphosphino)methane  
\*\*\*\*\*  
C7H5NO4 H2L Dipicolinic aci CAS 449-83-2 (418)  
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ gl KCl 25°C 0.20M U K1=16.0 1980KDb (52799) 398  
\*\*\*\*\*  
C7H6O2 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  
-----  
Pd++ gl diox/w 25°C 50% U K1=7.74 B2=14.77 1949MMA (53631) 399  
\*\*\*\*\*  
C7H6O2 HL Benzoic Acid CAS 65-85-0 (462)  
Benzenecarboxylic acid; C6H5.COOH  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ sp alc/w 25°C 100% U M K(Pd3A3CO+L)=4.0 1994PAa (53853) 400  
Medium: MeOH. A=Bis(diphenylphosphino)methane  
\*\*\*\*\*  
C7H7NO2 HL CAS 150-13-0 (1376)  
4-Aminobenzoic acid; H2N.C6H4.COOH  
-----

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

-----  
Pd++ sp alc/w 25°C 100% U M 1994PAa (55390) 401  
K(Pd3A3CO+L)=3.52

Medium: MeOH. A=Bis(diphenylphosphino)methane

\*\*\*\*\*

C7H7NO2 HL CAS 495-18-1 (184)

Benzohydroxamic acid; C6H5.CO.NH.OH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl diox/w 25°C 70% U K1=9.52 B2=17.55 1969JSa (55512) 402

\*\*\*\*\*

C7H8 L CAS 108-88-3 (2144)

Toluene; C6H5.CH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp alc/w 25°C 100% U M 1994PAa (55785) 403

K(Pd3A3CO+L)=-1.10

Medium: MeOH. A=Bis(diphenylphosphino)methane

\*\*\*\*\*

C7H8OS L CAS 1193-82-4 (1881)

Phenylmethylsulfoxide; C6H5.SO.CH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp alc/w 25°C 95% U 1982CCa (56055) 404

K(PdCl4+L=PdLCl3+Cl)=0.94

\*\*\*\*\*

C7H8O2 H2L Methylcatechol CAS 452-86-8 (525)

1,2-Dihydroxy-4-methylbenzene; CH3.C6H3(OH)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp oth/un 25°C 0.20M U 1981Cma (56075) 405

K(Pd+H2L=PdL+2H)=2.40

\*\*\*\*\*

C7H9N L 3-Methylaniline CAS 108-44-1 (755)

3-Methylaniline (3-Toluidine); CH3.C6H4.NH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ kin oth/un 25°C ? U M 1972VGa (56309) 406

K(M(H2O)4+L=M(H2O)3L+H2O)=7.57

\*\*\*\*\*

C7H9N L 4-Methylaniline CAS 106-49-0 (754)

4-Methylaniline (4-Toluidine); CH3.C6H4.NH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Pd++ kin oth/un 25°C ? U M 1972VGa (56343) 407  
K(M(H2O)4+L=M(H2O)3L+H2O)=8.04

\*\*\*\*\*  
C7H9NO L p-Anisidine CAS 104-94-7 (3764)  
4-Methoxyaniline; CH3O.C6H4.NH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ kin oth/un 25°C 2.0M U M 1972VGa (56397) 408  
K(M(H2O)4+L=M(H2O)3L+H2O)=7.81

\*\*\*\*\*  
C7H9N5O HL 9-Ethylguanine CAS 879-08-3 (6679)  
9-Ethyl-2-amino-6-hydroxypurine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M C M 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

\*\*\*\*\*  
C7H10N4O2S L Sulfaguanidine CAS 57-67-0 (4469)  
4-Aminobenzenesulfonyl guanidine; H2N.C(:NH).NH.SO2.C6H4.NH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 ? 1.0M U M 1970RGa (56704) 410  
K(PdCl2+L)=5.42  
K(PdCl2L+L)=4.38

\*\*\*\*\*  
C7H11N3O L Acetylhistamine CAS 673-49-4 (7412)  
4-(2'-Acetylaminoethyl)imidazole; C3H3N2.CH2CH2.NH.COCH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M C M 2003NFa (56961) 411  
K(PdA+L)=7.72  
K(2PdA+L=(PdA)2H-1L+H)=6.13

A is bis-((2-pyridyl)methyl)amine

-----  
Pd++ gl KNO3 25°C 0.20M C 1997WKa (56962) 412  
K(PdACl+L=PdAL+Cl)=5.48  
K(2PdACl+L=Pd2A2H-1L+2Cl)=-0.9

PdA is [PdH-1(gly-Met)].

\*\*\*\*\*  
C7H11N3O2 L CAS 7389-87-9 (3162)  
Histidine methyl ester

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----



$K(\text{Pd}(\text{HL})_2=\text{Pd}(\text{HL})\text{L}+\text{H})=4.58$   
 $K(\text{Pd}(\text{HL})\text{L}=\text{Pd}\text{L}_2+\text{H})=5.33$   
 $K(\text{PdCl}_4+2\text{HL}=\text{Pd}(\text{HL})_2+4\text{Cl})=11.5$

\*\*\*\*\*

C7H13N3O4                      HL      Ala-Asn                      CAS 1999-41-3 (5934)  
 Alanyl-asparagine;  $\text{NH}_2.\text{CH}(\text{CH}_3).\text{CO}.\text{NH}.\text{CH}(\text{CH}_2.\text{CO}.\text{NH}_2).\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	NaCl	20°C	0.15M	U				1990YKa (57648)	420

$K_{\text{eff}}(\text{Pd}+\text{L}+2\text{Cl})=21.5$

Eff constant : stability of PdCl4 is not accounted

\*\*\*\*\*

C7H13N3O4                      HL      Gly-b-Ala-Gly                      CAS 42538-54-5 (9058)  
 Glycyl-beta-alanylglycine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	oth/un	25°C	0.20M	C				2003AMb (57660)	421

$K_1=16.26$   
 $K(\text{PdH}-1\text{L})=12.06$   
 $K(\text{PdH}-2\text{L})=11.79$

Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.

\*\*\*\*\*

C7H13N3O4                      HL      Gly-Gly-b-Ala                      CAS 42538-53-4 (4453)  
 Glycylglycyl-beta-alanine;  $\text{H}_2\text{N}.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}_2.\text{CH}_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	oth/un	25°C	0.20M	C				2003AMb (57679)	422

$K_1=16.79$   
 $K(\text{PdH}-1\text{L})=10.97$   
 $K(\text{PdH}-2\text{L})=10.98$

Method: competition with chloride (0.1 M). Medium: 0.10 M KNO3/0.10 M KCl.

\*\*\*\*\*

C7H13N3O4                      HL      Gly-Gly-Ala                      CAS 19729-30-7 (3775)  
 Glycylglycylalanine;  $\text{H}_2\text{N}.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}(\text{CH}_3).\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	KNO3	25°C	0.20M	C				1999AJa (57687)	423

$B_2=23.7$   
 $B(\text{PdLCl})=17.91$   
 $B(\text{PdH}-1\text{LCl})=14.45$   
 $B(\text{PdH}-2\text{L})=8.99$   
 $B(\text{PdH}-3\text{L})=-2.40$

Medium: 0.1 M KNO3, 0.1 M KCl.  $B(\text{PdH}-1\text{L}_2)=19.60$ ;  $B(\text{PdH}-2\text{L}_2)=15.74$ .

\*\*\*\*\*

C7H13N3O4                      HL      b-Ala-Gly-Gly                      CAS 42538-55-6 (4452)  
 beta-Alanylglycylglycine;  $\text{H}_2\text{N}.\text{CH}_2.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}_2.\text{CO}.\text{NH}.\text{CH}_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------



Pd++ gl oth/un 25°C 0.20M C K1=14.40 2003AMB (57694) 424  
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.

\*\*\*\*\*

C7H14N2O3S HL Gly-Met CAS 554-94-9 (726)  
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 M 2001BNa (57800) 425  
\*K(PdL)=-3.61  
K(PdH-1L+Cl)=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.

\*\*\*\*\*

C7H15NO5S HL MOPSO CAS 68399-77-9 (1967)  
3-(N-Morpholino)-2-hydroxypropane sulfonic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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 H2L CAS 82611-22-1 (7392)  
Methionyl-1-aminoethylphosphonic acid; H2L

-----  
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(PdLCl)=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 L CAS 4741-99-5 (12)  
1,4,8,11-Tetraazaundecane; H2N.CH2.CH2.NH.CH2.CH2.CH2.NH.CH2.CH2.NH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaClO4 25°C 1.00M C K1=46.3 1985YAa (58359) 430  
\*\*\*\*\*

C8H6O4 H2L Phthalic acid CAS 88-99-3 (113)  
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

\*\*\*\*\*

C8H8NO2Cl HL 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  
-----

Pd++ gl diox/w 25°C 70% U K1=9.63 B2=17.37 1968JSb (59281) 432  
Medium: 70% dioxan, 0.1 M KCl

\*\*\*\*\*  
C8H8O2 HL p-Toluic acid CAS 99-94-5 (1372)  
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 M K(Pd3A3CO+L)=3.99 1994PAa (59501) 433

Medium: MeOH. A=Bis(diphenylphosphino)methane

\*\*\*\*\*

C8H9NOS HL CAS 4822-44-0 (3240)  
N-(Mercaptoacetyl)aniline (thioglycolanilide); C6H5.NH.CO.CH2.SH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ oth diox/w 30°C 70% U B2=24.34 1973BSa (60163) 434  
Medium: 0.1 M KCl

\*\*\*\*\*  
C8H9NO3 HL CAS 5663-54-7 (1095)  
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  
\*\*\*\*\*

C8H9NO4S H2L CAS 7717-21-7 (3846)  
N-(Phenylsulfonyl)aminoethanoic acid; C6H5SO2NHCH2COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	vlt	NaClO4	25°C	0.10M	U			K1=18.9 B2=24.4	1990GBb (60517)	436
*****										
C8H9N3O7		H2L							CAS 13055-06-5 (185)	
5-Amino-2,4,6-trioxo-1,3-perhydrodiazimino-N,N-diethanoic acid;										
Pd++	sp	KCl	20°C	0.10M	U	M			1987KUa (60652)	437
B(PdCl(OH)L)=22.12										
*****										
C8H9O3P		H2L							CAS 1707-08-0 (1969)	
2-Styrylphosphonic acid; C6H5.CH:CH.PO3H2										
Pd++	gl	KNO3	25°C	0.12M	U			K1=3.33 B2=6.55	1979RZb (60673)	438
*****										
C8H10		L							CAS 106-42-3 (2145)	
1,4-Dimethylbenzene, 4-Xylene; CH3.C6H4.CH3										
Pd++	sp	alc/w	25°C	100%	U	M			1994PAa (60682)	439
K(Pd3A3CO+L)=-1.15										
Medium: MeOH. A=Bis(diphenylphosphino)methane										
*****										
C8H10N3OCl		HL							CAS 5756-79-6 (4578)	
3-Ethyl-3-hydroxy-1-(2-chlorophenyl)triazene;										
Pd++	gl	diox/w	25°C	70%	U			K1=10.49 B2=20.46	1968DSa (60784)	440
Medium: 70% dioxan, 0.1 M KCl										
*****										
C8H10N3OCl		HL							CAS 5756-78-5 (4579)	
3-Ethyl-3-hydroxy-1-(4-chlorophenyl)triazene;										
Pd++	gl	diox/w	25°C	70%	U			K1=10.68 B2=20.66	1968DSa (60789)	441
Medium: 70% dioxan, 0.1 M KCl										
*****										
C8H11N		L							CAS 121-69-7 (1343)	
N-Phenyl-N,N-dimethylamine; C6H5.N(CH3)2										

Pd++ sp non-aq 25°C 100% U M 1979SSa (60989) 442

K(PdA+L)=1.0

A=Tetraphenylporphyrin (in its excited triplet state)

\*\*\*\*\*

C8H11N3O HL CAS 5956-70-7 (4529)

3-Hydroxy-3-methyl-1-(4-tolyl)triazene; CH3.C6H4.N:N.N(OH).CH3

-----  
Metal 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

\*\*\*\*\*

C8H11N3O2 HL CAS 5756-72-9 (4533)

3-Hydroxy-3-methyl-1-(4'-methoxyphenyl)triazene; CH3O.C6H4.N:N.N(OH).CH3

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl diox/w 25°C 70% U K1=12.25 B2=23.70 1970DSb (61257) 444

Medium: 70% dioxan, 0.1 M KCl

\*\*\*\*\*

C8H11N3O3 HL CAS 2497-02-1 (3230)

Acetyl-L-histidine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M C M 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(PdAcl+L=PdAL+Cl)=5.33

K(2PdAcl+L=Pd2A2H-1L+2Cl)=0.1

PdA is [PdH-1(gly-Met)].

\*\*\*\*\*

C8H14N4O5 HL Tetraglycine CAS 637-84-3 (1849)

Glycyl-Glycyl-Glycyl-Glycine; H2N.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(PdLCl)=18.25

B(PdH-1LCl)=14.81

B(PdH-2L)=10.13

B(PdH-3L)=2.45

Medium: 0.1 M KNO3, 0.1 M KCl.

\*\*\*\*\*

C8H14O5S2 H2L CAS 4408-66-6 (8332)

Oxybis(ethylenethio)diethanoic acid;



$$K(\text{Pd}(\text{pn})+\text{L}=\text{PdH}-1(\text{pn})\text{L}+\text{H})=3.30$$

pn is 1,2-diaminopropane. For aminoacid protonation,  $K_1=8.13$ .

\*\*\*\*\*

C8H22N4 L CAS 35513-90-7 (1545)

1,4,9,12-Tetraazadodecane;  $\text{NH}_2.(\text{CH}_2)_2.\text{NH}.(\text{CH}_2)_4.\text{NH}.(\text{CH}_2)_2.\text{NH}_2$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaClO4 25°C 1.00M C K1=42.0 1985YAa (63383) 454

\*\*\*\*\*

C9H6N04IS H2L Ferron CAS 547-91-1 (275)

7-Iodo-8-hydroxyquinoline-5-sulfonic acid;  $(\text{HO})(\text{HO}_3\text{S})\text{C}_9\text{H}_4\text{NI}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C 0.0 U 1967MBe (63822) 455

$$K(?)=9.05$$

\*\*\*\*\*

C9H7N04S H2L Sulfoxine CAS 84-88-8 (448)

8-Hydroxyquinoline-5-sulfonic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ oth oth/un ? ? U K1=11.6 B2=20.14 1973BIb (64573) 456

Method: fluorescence

\*\*\*\*\*

C9H11NOS HL CAS 36076-50-3 (4680)

N-Phenyl-N-methyl-2-mercaptoacetamide;  $\text{HS}.\text{CH}_2.\text{CO}.\text{N}(\text{CH}_3).\text{C}_6\text{H}_5$

-----  
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

\*\*\*\*\*

C9H11N02 HL Phenylalanine CAS 63-91-2 (2)

2-Amino-3-phenylpropanoic acid;  $\text{H}_2\text{N}.\text{CH}(\text{CH}_2.\text{C}_6\text{H}_5).\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.50M U 1978LIa (65966) 458

$$K(\text{Pd}(\text{en})+\text{L})=10.86$$

-----  
Pd++ gl KNO3 20°C 0.5M U K1=9.32 B2=18.27 1974KHb (65967) 459

\*\*\*\*\*

C9H11N02 HL B-Phenylalanine CAS 614-19-7 (187)

3-Amino-3-phenyl-propanoic acid;  $\text{H}_2\text{N}.\text{CH}(\text{C}_6\text{H}_5).\text{CH}_2.\text{COOH}$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M U M 1999SSd (66011) 460

$$K(\text{Pd}(\text{pn})+\text{L})=11.06$$



K(Pd(en)+L)=8.98  
K(Pd(en)+2L)=14.80  
\*K(Pd(en)(H2O)L)=-7.67

K(Pd(en)(H2O)+L=Pd(en)(OH)L+H)=1.31,  
K(2Pd(en)(H2O)2+2L=Pd2(en)2(OH)L2+H)=12.14

-----  
Pd++ gl KNO3 25°C 0.20M C M 2001NSa (66706) 468

K(Pd(pic)+L)=9.20  
K(Pd(pic)+2L)=15.09  
\*K(Pd(pic)(H2O)L)=-7.94

K(Pd(pic)(H2O)+L=Pd(pic)(OH)L+H)=1.26,  
K(2Pd(pic)(H2O)2+2L=Pd2(pic)2(OH)L2+H)=13.82. Hpic=picric acid.

-----  
Pd++ gl NaNO3 25°C 0.10M C M 2001SHc (66707) 469

K(Pd(bpy)(H2O)2+L)=9.71  
K(Pd(bpy)(H2O)2+H+L)=13.29  
K(Pd(bpy)(H2O)2+2L)=16.88  
K(Pd(bpy)(H2O)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=diethylenetriamine, terpy=2,2'-6',2"-terpyridine. Data also for many related nucleobases

-----  
Pd++ gl KNO3 25°C 0.20M C 1997WKa (66710) 472

K(PdACl+L=PdAL+Cl)=7.00

PdA is [PdH-1(gly-met)].

-----  
Pd++ gl KNO3 25°C 0.50M U M 1981LIa (66711) 473

K(Pd(en)(H2O)2+L)=8.65  
K(Pd(en)(H2O)L+L)=5.92  
K(Pd(dien)(H2O)+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

-----  
Pd++ nmr oth/un 23°C 0.30M U M 1985PGa (66980) 474

Keff(PdA+HL)=2.99

A=Tetrakis(4-N-methylpyridyl)porphyrin. pD=7.0

\*\*\*\*\*

C9H13N3O5 L Cytidine CAS 65-46-3 (2152)

Cytidine, Cytosine-1-beta-D-ribofuranoside;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo



Pd++ gl KNO3 25°C 0.20M C M 2003NFa (67073) 475  
K(PdA+L)=5.83

A is bis-((2-pyridyl)methyl)amine

Pd++ sp NaClO4 25°C 1.0M U M 1984ETa (67074) 476  
K(PdCl4+L=PdLC13+Cl)=4.49  
K(PdLC13+L=PdL2Cl2+Cl)=3.45  
K(Pd(en)Cl2+L=PdenLC1+Cl)=3.32  
K(Pd(en)LC1+L=PdenL2+Cl)=2.56

\*\*\*\*\*  
C9H14N3O8P H2L CMP-5 CAS 63-37-6 (1243)  
Cytidine-5'-monophosphoric acid, Cytidilic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.10M C M K1=3.35 2001AAa (67262) 477  
Also data for ternary complexes with MOPSO, TAPSO and ACES.

\*\*\*\*\*  
C9H17N3O4S HL Gly-Met-Gly CAS 51529-34-1 (7566)  
Glycylmethionylglycine; NH2CH2CONHCH(CH2CH2SCH3)CONHCH2COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KCl 25°C 0.20M C M 2001BNa (67872) 478  
\*K(PdL)=-3.65  
K(PdH-1L+Cl)=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.

\*\*\*\*\*  
C9H18N2O3 HL Leu-Ala CAS 7298-84-2 (4659)  
Leucylalanine- H2N.CH(CH2.CH(CH3)2).CO.NH.CH(CH3).COOH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M U M 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.

\*\*\*\*\*  
C9H23N3 L CAS 3030-47-5 (4605)  
N,N,N',N'',N'''-Pentamethyl-diethylenetriamine; (CH3)2NCH2CH2N(CH3)CH2CH2N(CH3)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl R4N.X 25°C 0.10M C M 1998BBa (68282) 480  
B(PdLC1)=24.9  
B(PdH-1L)=14.1

Medium: 0.1 M NMe4Cl  
-----

Pd++ gl NaClO4 25°C 0.50M C I 1981GMF (68283) 481  
 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  
 \*\*\*\*\*

C9H24N4 L CAS 129880-56-4 (1533)  
 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  
 -----

Pd++ gl KNO3 25°C 0.10M C K1=37.9 1985YAA (68336) 482

\*\*\*\*\*

C10H7NO2 HL CAS 131-91-9 (2668)  
 1-Nitroso-2-naphthol, alpha-Nitroso-beta-naphthol;

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----

Pd++ 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.

\*\*\*\*\*

C10H7NO2 HL CAS 132-53-6 (2524)  
 2-Nitroso-1-naphthol;

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----

Pd++ 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.

\*\*\*\*\*

C10H7NO5S H2L 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.

\*\*\*\*\*

C10H7NO8S2 H3L Nitroso-R acid CAS 525-05-3 (1811)  
 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

-----  
 Pd++ sp oth/un 25°C ? U 1963BGb (69025) 487  
 K(?)=8.8

\*\*\*\*\*

C10H8N2 L 2,2'-Bipyridyl CAS 366-18-7 (25)  
 2,2'-Bipyridine; (C5H4N)2

-----



$K(\text{PdA}+2\text{L})=10.27$

HA is S-methyl cysteine.

---

Pd++      gl    NaNO3    25°C 0.10M C      M      2002MSb (71393) 494

$K(\text{PdA}+\text{L})=8.03$   
 $K(\text{PdA}+2\text{L})=12.74$   
 $K(\text{PdA}+\text{B}+\text{L})=12.29$   
 $K(\text{PdA}+\text{H}+\text{B}+\text{L})=17.72$

A is N,N'-dimethylethylenediamine, B is 1,1-cyclobutanedicarboxylic acid.

---

Pd++      gl    NaNO3    25°C 0.10M C      M      2001SHc (71394) 495

$K(\text{Pd}(\text{bpy})(\text{H}_2\text{O})_2+\text{L})=9.73$   
 $K(\text{Pd}(\text{bpy})(\text{H}_2\text{O})_2+\text{H}+\text{L})=12.55$   
 $K(\text{Pd}(\text{bpy})(\text{H}_2\text{O})_2+2\text{L})=14.89$   
 $K(\text{Pd}(\text{bpy})(\text{H}_2\text{O})_2+2\text{L}+\text{H})=20.11$

$K(\text{Pd}(\text{bpy})(\text{H}_2\text{O})_2+2\text{L}+2\text{H})=25.37.$

---

Pd++      gl    NaNO3    25°C 0.10M U      M      1999SSd (71395) 496

$K(\text{Pd}(\text{pn})+\text{L})=6.83$   
 $K(\text{Pd}(\text{pn})+2\text{L})=11.26$

pn is 1,2-diaminopropane. For nucleotide protonation,  $K_1=8.55.$

---

Pd++      gl    NaNO3    37°C 0.16M M      M      1998ESa (71396) 497

$K(\text{PdA}+\text{L})=6.92$   
 $K(\text{PdA}+2\text{L})=11.58$

A is 1,3-diaminopropane.

---

Pd++      gl    KCl      25°C 0.20M U      M      1997KFa (71397) 498

$K(\text{Pd}(\text{dien})\text{Cl}+\text{L})=6.82$   
 $K(\text{Pd}(\text{dien})\text{Cl}+\text{H}+\text{L})=12.79$   
 $K(2\text{Pd}(\text{dien})\text{Cl}+\text{L})=11.56$   
 $K(\text{Pd}(\text{terpy})\text{Cl}+\text{L})=6.92$

dien=diethylentriamine, terpy=2,2'-6',2''-terpyridine.  $K(\text{Pd}(\text{terpy})+\text{H}+\text{L})=12.10$   
Data also for many related nucleobases

---

Pd++      gl    NaClO4    25°C 0.10M C      M      1997RSa (71398) 499

$K(\text{PdA}+\text{L})=7.43$   
 $K(\text{PdA}+2\text{L})=11.77$

A=2-(Aminomethyl)pyridine

---

Pd++      gl    KNO3      25°C 0.20M C      M      1997WKa (71399) 500

$K(\text{PdACl}+\text{L}=\text{PdAL}+\text{Cl})=6.38$   
 $K(\text{PdACl}+\text{H}+\text{L}=\text{PdAHL}+\text{Cl})=12.73$   
 $K(2\text{PdACl}+\text{L}=\text{Pd}2\text{A}2\text{L}+2\text{Cl})=10.93$

PdA is [PdH-1(gly-Met)].

---

Pd++      gl    NaClO4    25°C 0.10M M T H      M      1996SEc (71400) 501

$K(\text{PdACl}_2+\text{L})=6.04$   
 $K(\text{PdACl}_2+2\text{L})=9.56$

A is N,N,N',N'-tetramethyl-1,2-diaminoethane. Also data at 15.5, 20, 30

and 35.2 C.  $DH(PdACl_2+L)=17.0 \text{ kJ mol}^{-1}$ ,  $DH(PdACl_2+2L)=-10.7$ .

-----  
Pd++ gl NaClO4 25°C 0.10M M T H 1996SEc (71401) 502

$K(PdACl_2+L)=5.78$

$K(PdACl_2+2L)=10.48$

A is N,N,N',N'-tetraethyl-1,2-diaminoethane. Also data at 15.5, 20, 30 and 35.2 C.  $DH(PdACl_2+L)=30.6 \text{ kJ mol}^{-1}$ ,  $DH(PdACl_2+2L)=35.6$ .

\*\*\*\*\*

C10H12N6S L CAS 91262-80-9 (6101)

3-(4',5'-Dimethyl-2'-thiazolylazo)-2,6-diaminopyridine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp NaClO4 25°C 0.25M U 1988SSe (71519) 503

$B(PdHL)=16.36$

$B(PdH_3L_2)=31.47$

$B(PdH_4L_2)=27.36$

\*\*\*\*\*

C10H13N04S H2L N-Tosylalanine (1584)

N-(4-Toluenesulfonyl)-3-aminopropanoic acid;  $CH_3.C_6H_4.SO_2.NH.CH_2.CH_2.COOH$

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ vlt NaClO4 25°C 0.10M U 1994BGa (71773) 504

$K_{eff}(Pd+H_2L=PdL)=16.8$

$B_{eff}(Pd+2H_2L=PdL_2)=20.5$

Complex formation involves loss of the amide proton.

\*\*\*\*\*

C10H13N3OS L (4791)

alpha-Ethylfurylacrolein thiosemicarbazone;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ sp alc/w 20°C 50% U B2=12.68 1972KLa (71797) 505

Medium: 50% EtOH, 0.1 M, pH=5

\*\*\*\*\*

C10H13N4O8P H3L IMP CAS 131-99-7 (843)

Inosine-5'-monophosphoric acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl NaClO4 25°C 0.10M M M 2002BSa (71862) 506

$K(PdA+L)=7.45$

$K(PdA+H+L)=14.10$

HA is S-methyl cysteine.

-----  
Pd++ gl KNO3 25°C 0.10M C M K1=3.27 2001AAa (71863) 507

Also data for ternary complexes with MOPSO, TAPSO and ACES.

-----  
Pd++ gl NaNO3 25°C 0.10M C M 2001SHc (71864) 508

K(Pd(bpy)(H2O)2+L)=10.17  
K(Pd(bpy)(H2O)2+H+L)=16.65  
K(Pd(bpy)(H2O)2+L+2H)=20.98  
K(Pd(bpy)(H2O)2+2L)=14.80

K(Pd(bpy)(H2O)2+2L+H)=21.49, K(Pd(bpy)(H2O)2+2L+2H)=28.50.

-----  
Pd++ gl NaNO3 25°C 0.10M U M 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 37°C 0.16M M 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 M 1997RSa (71867) 511

K(PdA+L)=10.79  
K(PdA+H+L)=17.02  
K(PdA+2L)=14.65

A=2-(Aminomethyl)pyridine

-----  
Pd++ gl NaClO4 25°C 0.10M M T H 1996SEc (71868) 512

K(PdACl2+L)=4.43  
K(PdACl2+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<sup>-1</sup>, DH(PdACl2+2L)=-62.4.

-----  
Pd++ gl NaClO4 25°C 0.10M M T H 1996SEc (71869) 513

K(PdACl2+L)=4.39  
K(PdACl2+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<sup>-1</sup>, DH(PdACl2+2L)=-2.09.

-----  
Pd++ sp NaClO4 25°C 0.10M U M 1994SEa (71870) 514

K(PdACl+L=PdALCl)=-1.46

A=N,N,N',N'-Tetramethylethylenediamine

\*\*\*\*\*

C10H13N5O5 HL Guanosine CAS 118-00-3 (1402)

2-Aminopurin-6-one-9-riboside;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

-----  
Pd++ gl NaNO3 37°C 0.16M M M 1998ESa (72015) 515

K(PdA+L)=7.85

A is 1,3-diaminopropane.

\*\*\*\*\*

C10H14N2O5 H2L Thymidine CAS 50-89-5 (8256)

Thymine deoxyriboside, 1-(2-Deoxy-beta-ribofuranosyl)-5-methyluracil;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaNO3 25°C 0.10M C M 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 M 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.

-----  
Pd++ gl NaNO3 37°C 0.16M M M 1998ESa (72087) 518

K(PdA+L)=8.27  
K(PdA+2L)=13.57

A is 1,3-diaminopropane.

\*\*\*\*\*

C10H14N2O6 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  
-----

Pd++ gl NaNO3 20°C 1.0M M K1=8.15 B2=15.82 1997WYa (72106) 519

K3=6.37  
K4=3.56

-----  
Pd++ gl KNO3 25°C 0.50M U M 1981LIa (72107) 520

K(Pd(en)(H2O)2+L)=8.84  
K(Pd(en)(H2O)L+L)=5.85  
K(Pd(dien)(H2O)+L)=8.31

\*\*\*\*\*

C10H14N3 L 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 M 1994PAa (72122) 521

K(Pd3A3CO+L)=2.30

Medium: MeOH. A=Bis(diphenylphosphino)methane

\*\*\*\*\*

C10H14N5O7P H2L AMP-2 CAS 81012-86-4 (2437)

Adenosine-2'-monophosphoric acid, 2-Adenylic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.10M C M 2002WBa (72190) 522

K(Pd(dien)+H+L)=11.1

K(Pd(dien)+L)=5.30  
K(2Pd(dien)+H+L)=13.5

\*\*\*\*\*

C10H14N5O8P H3L GMP-2 CAS 130-50-7 (8778)

Guanosine-2'-monophosphoric acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.10M C M 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 M 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

\*\*\*\*\*

C10H14N5O8P H3L GMP-5 CAS 85-32-5 (2947)

Guanosine-5'-monophosphoric acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaClO4 25°C 0.10M M 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 M 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.

-----  
Pd++ gl NaClO4 25°C 0.10M C M 1997RSa (72596) 528

K(PdA+L)=10.82  
K(PdA+H+L)=17.35  
K(PdA+2L)=14.46

A=2-(Aminomethyl)pyridine

-----  
Pd++ gl NaClO4 25°C 0.10M M T H 1996SEc (72597) 529



K(PdACl2+HL)=4.14  
K(PdACl2+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<sup>-1</sup>, DH(PdACl2+2HL)=-14.8.

-----  
Pd++ gl NaCl04 25°C 0.10M M T H 1996SEc (72598) 530

K(PdACl2+HL)=4.00  
K(PdACl2+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<sup>-1</sup>, DH(PdACl2+2HL)=-111.

\*\*\*\*\*

C10H15N5O4 HL 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.

\*\*\*\*\*

C10H15N5O10P2 H3L ADP CAS 20398-34-9 (2181)  
Adenosine-5'-diphosphoric acid;

-----  
Metal 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 H4L 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 NaCl04 20°C 0.10M U M 1986PKa (73171) 533

K(PdCl+H2L)=10.93

K(PdCl+L)=23.67

-----  
Pd++ gl KNO3 30°C 0.10M U K1=13.6 1971STc (73172) 534

\*\*\*\*\*

C10H16N2O8 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

-----  
Pd++ sp NaCl04 21°C 0.20M U M K1=25.6 1983KDa (74071) 535

K(PdL+Cl)=5.4

-----  
Pd++ sp NaCl04 25°C 1.00M U M 1981SDa (74072) 536

K(PdL+Cl)=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 25°C 0.0 U K1=26.4 1978KRa (74073) 537  
 -----

Pd++ gl oth/un 20°C 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  
 -----

\*\*\*\*\*

C10H16N6S L Cimetidine CAS 51481-61-9 (5716)

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 L 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  
 -----

Pd++ gl KNO3 25°C 0.10M U K1=10.83 1980ZRb (76841) 542  
 K(PdL+H)=9.56  
 K(PdHL+H)=6.71  
 K(PdH2L+H)=5.73  
 K(PdH3L+H)=4.65

\*\*\*\*\*

C11H7NO4 H2L CAS 122844-38-6 (8293)

1-Hydroxy-4-nitroso-2-naphthalenecarboxylic acid;

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----

Pd++ 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.

\*\*\*\*\*

C11H7N04 H2L CAS 32446-26-7 (8294)

3-Hydroxy-4-nitroso-2-naphthalenecarboxylic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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.

\*\*\*\*\*

C11H8O3 H2L CAS 86-48-6 (1129)

1-Hydroxy-2-naphthoic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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.

\*\*\*\*\*

C11H8O3 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  
-----

Pd++ 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.

\*\*\*\*\*

C11H9N02S HL CAS 29556-13-6 (1450)

N-Phenyl-2-thenoylhydroxamic acid; C4H3SCON(C6H5)OH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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

\*\*\*\*\*

C11H9N03 H2L CAS 80690-05-7 (872)

3-Hydroxy-2-methyl-1,4-naphthoquinone monoxime;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl diox/w 30°C 0.10M U K1=5.63 B2=10.22 1981KSa (77365) 548  
K3=4.61

\*\*\*\*\*

C11H9N3O HL CAS 10335-29-2 (3937)

2-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp alc/w 20°C 50% U K1=17.1 1967ANa (77461) 549  
Medium: 50% MeOH, 0.1 M NaClO4

\*\*\*\*\*  
 C11H10N4 L PAPHY CAS 2215-33-0 (1305)  
 Pyridine-2-aldehyde-2'-pyridyl-hydrazone; C5H4N.CH:N.NH.C5H4N  
 -----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaCl	25°C	3.00M	U	M			1981MIb (77710)	550
									K(PdCl2+HL=PdHLC1+Cl)=4.00	
									K(PdLC1+H)=5.30	
									K(PdCl2+2PdLC1=Pd3L2C14)=8.30	

\*\*\*\*\*  
 C11H12N2O L Antipyrine CAS 60-80-0 (2026)  
 2,3-Dimethyl-1-phenyl-3-pyrazolin-5-one, Phenazone;  
 -----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	oth/un	?	0.60M	U				1971KBe (78005)	551
									K1=5.58	

Medium: K2S04

\*\*\*\*\*  
 C11H12N2O2 HL Tryptophan CAS 73-22-3 (3)  
 2-Amino-3-(3-indolyl)propanoic acid; H2N.CH(CH2.C8H6N)COOH  
 -----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	KNO3	25°C	0.50M	U				1978LIa (78230)	552
									K(Pd(en)+L)=10.83	

\*\*\*\*\*  
 C11H14N2O3 HL Gly-Phe CAS 3321-03-7 (829)  
 Glycyl-phenylalanine; H2N.CH2.CO.NH.CH(CH2.C6H5).COOH  
 -----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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.

\*\*\*\*\*  
 C11H14N2O3 HL Phe-Gly CAS 721-90-4 (830)  
 Phenylalanyl-glycine; H2N.CH(CH2.C6H5).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 (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.



Pd++ gl diox/w 25°C 70% U K1=10.43 B2=20.43 1964PSg (80761) 560

Medium: 70% dioxan, 0.1 M KCl

\*\*\*\*\*

C12H10N3OCl HL CAS 5756-86-5 (3999)

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

\*\*\*\*\*

C12H11N3O4S H2L (4003)

3-Hydroxy-3-phenyl-1-(4'-sulfonyl)triazene;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl diox/w 25°C 70% U K1=9.71 B2=19.03 1964PSf (80942) 562

Medium: 70% dioxan, 0.1 M KCl

-----  
Pd++ sp oth/un 25°C ? U 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

\*\*\*\*\*

C12H13N3 L CAS 1539-42-0 (932)

bis-((2-Pyridyl)methyl)-amine (Di-2-picolyamine); C5H4N.CH2NHCH2.C5H4N

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KNO3 25°C 0.20M C 2003NFa (81289) 565

\*K(PdL(H2O))=-7.08

\*\*\*\*\*

C12H20N2O8 H4L 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  
-----

Pd++ gl KNO3 30°C 0.10M U K1=13.4 1971STc (82091) 566

\*\*\*\*\*

C12H20N2O8 H4L CAS 2458-58-4 (922)

1,4-Diaminobutane-N,N,N',N'-tetraethanoic acid; (HOOC.CH2)2N.(CH2)4.N(CH2.COOH)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl oth/un 20°C 1.00M C K1=25.8 1976AMa (82233) 567  
Medium: NaBr/NaClO4. By exchange with PdBr4

\*\*\*\*\*

C12H24O2S4 L (6657)  
1,4,7,10-Tetrathia-13,16-dioxacyclooctadecane, 1,4,7,10-Tetrathia-18-crown-6;

-----  
Metal 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

\*\*\*\*\*

C12H24O4S2 L CAS 296-39-9 (4938)

1,4,10,13-Tetraoxa-7,16-dithiacyclooctadecane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ cal oth/un 25°C 0.50M M H K1=21.1 1990IWa (83141) 569

Medium: 0.5M HNO3. DH(K1)=-82.4 kJ mol<sup>-1</sup>, DS(K1)= 127.6 J K<sup>-1</sup> mol<sup>-1</sup>.

\*\*\*\*\*

C12H24O4S2 L (6528)

7,10,13,16-Tetraoxa-1,4-dithiacyclooctadecane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ 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<sup>-1</sup>, DS(K1)= -137 J K<sup>-1</sup> mol<sup>-1</sup>.

\*\*\*\*\*

C12H29N3 L CAS 123-12-6 (4904)

(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  
-----

Pd++ 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 L (7251)

2,5,8,11-Tetramethyl-2,5,8,11-tetraazadodecane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl R4N.X 25°C 0.10M C M K1=23.38 1998BBa (84292) 572

K(PdL+H+Cl)=6.85

B(PdH-1L)=13.9

K(PdL+OH)=4.3

Medium: 0.1 M NMe4Cl

\*\*\*\*\*

C12H30N4 L (6740)

Tris(2-(dimethylamino)ethyl)amine; N(CH2CH2.N(CH3)2)3

-----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	NaCl	25°C	1.00M	U	I		K1=30.5	1993AMa (84303)	573
Pd++	gl	oth/un	25°C	1.00M	U	M		K(Pd(H2O)L+Cl=PdClL)=2.6 K(Pd(H2O)L+Br=PdBrL)=2.8 K(Pd(H2O)L+SCN=Pd(SCN)L)=5.57	1993AMa (84304)	574

\*\*\*\*\*  
C12H30N6 L CAS 296-35-5 (143)  
1,4,7,10,13,16-Hexaazacyclooctadecane; cyclo(-(NH.CH2.CH2)6-)  
\*\*\*\*\*

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	cal	NaCl	25°C	0.50M	U	HM		DH(2PdCl4+L=Pd2LC12+6Cl)=-110.8 kJ mol-1	1993BBa (84349)	575
Pd++	gl	NaCl	25°C	0.50M	C	H		K1=29.2 B(PdHL)=37.47 B(PdH2L)=42.40 B(Pd2LC12)=51.8	1992BBf (84350)	576

By calorimetry: DH(PdCl4+H6L)=-6.3 kJ mol-1.  
\*\*\*\*\*

C13H8N2O6Cl2S H3L CAS 60743-06-8 (8478)  
2-[(3,5-Dichloro-2-hydroxyphenyl)azo]-5-sulfo benzoic acid;  
\*\*\*\*\*

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	NaClO4	RT	0.10M	C			K1=15.51	1978GSc (84477)	577
								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 B(Pd(gly)L)=20.61	2001AMc (84578)	578

Medium: 50% v/v dioxane/H2O  
\*\*\*\*\*

C13H9NO2ClF HL CAS 104614-72-4 (9107)  
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 B(Pd(gly)L)=20.98	2001AMc (84586)	579

Medium: 50% v/v dioxane/H2O  
\*\*\*\*\*

C13H9NO2Cl2 HL CAS 67201-86-9 (9108)  
4-Chloro-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=11.15      2001AMc (84594) 580
                B(Pd(gly)L)=20.58

```

```

Medium: 50% v/v dioxane/H2O
*****
C13H9N3O4S2      H2L      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      HL      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
-----
Pd++      gl  diox/w 25°C 70% U           K1=9.80      B2=18.21      1967JSa (84719) 582
Medium: 70% dioxan, 0.1 M KCl
*****

```

```

C13H10NO2Cl      HL      CAS 78154-49-1 (5649)
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/H2O
*****
C13H10N2O2      HL      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
*****

```

```

C13H10N2O5S      H2L      CAS 98789-35-6 (5012)
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      H2L      (6644)
4-Hydroxy-3-(1H-imidazol-2-ylazo)-2-naphthalenesulfonic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----

```

-----  
Pd++ sp NaClO4 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

\*\*\*\*\*  
C13H10O2S H2L CAS 88220-26-2 (6572)  
3-(1-Naphthyl)-2-mercaptopropenoic acid;  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 25°C 0.10M C K1=15.56 B2=26.40 1989IBb (84976) 588  
Medium: Aqueous 0.1 M NaClO4 containing 1-2% EtOH.

\*\*\*\*\*  
C13H11NO2 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 HL 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  
-----

Pd++ dis NaCl 25°C 2.0M C 1998BMd (85391) 591  
K(Pd+2HL(org)=PdL2(org)+2H)=2.9. Method: extraction into CHCl3.

\*\*\*\*\*  
C13H12N4S 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 NaClO4 25°C 0.10M U K1=11.39 B2=21.78 1973BSe (85471) 592

\*\*\*\*\*

C13H13N3O HL (4018)

3-Hydroxy-1-(2'-methylphenyl)-3-phenyltriazene;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl KCl 25°C 0.10M U K1=11.70 B2=22.97 1964PSa (85508) 593

\*\*\*\*\*

C13H13N3O HL 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

\*\*\*\*\*

C13H13N3O2 HL CAS 5756-89-8 (4021)

3-Hydroxy-1-(4'-methoxyphenyl)-3-phenyltriazene;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl diox/w 25°C 70% U K1=12.06 B2=23.74 1965PSb (85522) 595

Medium: 70% dioxan, 0.1 M KCl

\*\*\*\*\*

C13H20N2O2 L Procaine CAS 59-46-1 (4029)

2-(Diethylamino)ethyl 4-aminobenzoate; H2N.C6H4.CO2.CH2.CH2.N(C2H5)2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C ? U B2=7.88 1968SPd (86097) 596

\*\*\*\*\*

C13H22N2O8 H4L CAS 1798-14-7 (921)

(Pentamethylenedinitrilo)tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2CH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl oth/un 20°C 1.00M C K1=26.4 1976AMa (86203) 597

Medium: NaBr/NaClO4. Corrected for PdBrx complexes

\*\*\*\*\*

C13H22N4O3S L Ranitidine CAS 66357-35-5 (7144)

N(2-(5-Dimethylaminomethyl)-2-furanylmethyl)thioethyl-N-methyl-2-nitro-1-ethenediamine;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaCl 25°C 0.10M U K1=9.97 1995CCa (86332) 598

B(PdH-1L)=2.41

B(PdH-2L)=-6.88

\*\*\*\*\*

C13H26O4S2 L (6656)

1,5-Dithia-8,11,14,17-tetraoxacyclonadecane, 1,5-Dithia-19-crown-6;

-----

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	ix	none	25°C	0.0	U			K1=29.8	1991BTa (86462)	599
*****										
C13H32N4			L					(7403)		
2,5,9,12-Tetramethyl-2,5,9,12-tetraazatridecane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	R4N.X	25°C	0.10M	C			K1=28.3 K(PdL+H+Cl)=3.6 B(PdH-1L)=16.9 K(PdL+OH)=2.4	1998BBa (86579)	600

Medium: 0.1 M Me4NCl

*****										
C14H9NO3			HL					CAS 116-85-8	(1020)	
1-Amino-4-hydroxyanthraquinone;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	alc/w	20°C	50%	U			K1=14.21 B2=23.66 K(Pd+HL)=5.71 K(Pd(OH)2L)=31.81	1990ISa (86796)	601

Medium: 50% EtOH/H2O, 0.1 M NaClO4

*****										
C14H10O4			H2L					CAS 482-05-3	(8247)	
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.										

*****										
C14H12Cl2S2			L					CAS 33451-44-4	(5055)	
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
Pd++	sp	alc/w	25°C	100%	U	M		K(PdI4+L=PdLI2+2I)=-0.68	1969CCb (87034)	603

*****										
C14H12NO2Cl			HL					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
Pd++	gl	diox/w	25°C	50%	C	M		K1=11.65 B(Pd(gly)L)=21.66	2001AMc (87066)	604

Medium: 50% v/v dioxane/H2O

-----  
Pd++ gl diox/w 25°C 50% U K1=9.94 B2=18.79 1989PMb (87067) 605  
-----

Pd++ 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  
\*\*\*\*\*

C14H12N03Cl HL CAS 67135-47-1 (9106)  
N-(3-Chlorophenyl)-N-hydroxy-4-methoxybenzamide;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl diox/w 25°C 50% C M K1=11.82 2001AMc (87097) 607  
B(Pd(gly)L)=22.06

Medium: 50% v/v dioxane/H2O

\*\*\*\*\*

C14H12N4O2Br2 HL 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  
-----

Pd++ sp diox/w 25°C 40% C K1=10.36 1986KHa (87319) 608

\*\*\*\*\*

C14H13NO2 HL CAS 1503-92-0 (1817)  
N-(4-Tolyl)benzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH

-----  
Metal 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

\*\*\*\*\*

C14H13NO2 HL 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 HL (4045)  
1-(4'-Acetylphenyl)-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=10.97 B2=21.51 1964PSe (87594) 611

Medium: 70% dioxan, 0.1 M KCl

\*\*\*\*\*

C14H13N5OS HL (5394)  
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

\*\*\*\*\*

C14H13N5O2 HL (5393)  
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

\*\*\*\*\*

C14H14N4OBr2 HL CAS 35601-32-2 (5092)  
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

\*\*\*\*\*  
C14H14S2 L 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  
-----  
Pd++ sp alc/w 25°C 100% U M 1969CCb (87708) 615

K(PdI4+L=PdLI2+2I)=0.72

\*\*\*\*\*  
C14H15N4OBr HL 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 L 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  
-----  
Pd++ nmr mixed 25°C 60% C K1=4.20 2004HHa (87879) 617

Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.

\*\*\*\*\*  
C14H16N2O2S2 L 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  
-----  
Pd++ nmr mixed 25°C 60% C K1=3.61 2004HHa (87880) 618

Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.

\*\*\*\*\*

C14H16N2O4S H2L Dansyl-Gly CAS 1091-85-6 (5845)  
N-Dansylglycine, (5-Dimethylamino)naphthalene-1-sulfonoglycine;  
(CH3)2N.C10H6.SO2.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	vlt	NaCl04	25°C	0.10M	U			K1=17.8 B2=21.8 B(PdL(OH))=21.6 Beff(PdH-2L2)=21.8 Beff(PdH-2L2(OH))=21.6	1990GBb (87901)	619

\*\*\*\*\*

C14H18N4 L DPEN 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	25°C	1.00M	C			K1=35.6	1985YAA (88117)	620

Medium: NaBr

\*\*\*\*\*

C14H23N3O10 H5L DTPA 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
Pd++	gl	NaCl04	20°C	1.00M	U	M		K1=29.7 K(PdL+H)=3.49 K(PdHL+H)=2.93 K(PdH2L+H)=2.56 K(PdH3L+H)=1.93	1976AMa (89356)	621

K(PdL+SCN=PdL(SCN))=1.45;K(PdL+Br=PdBr)=-1.K1 in NaBr by exchange with PdBr4

Pd++	EMF	oth/un	25°C	0.20M	U			K1=24.60	1972KIa (89357)	622
------	-----	--------	------	-------	---	--	--	----------	-----------------	-----

\*\*\*\*\*

C14H24N2O8 H4L 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	NaCl04	20°C	0.10M	U	I		K(PdCl+HL)=17.3 B(PdCl(OH))=39.72 K(PdCl(OH))=15.60 K(PdCl+2OH)=28.35	1983KVa (89596)	623

B(Pd(OH)Cl)=43.72; B(Pd2Cl2(OH)2L)=57.43. Data also at 1.0 M

Pd++	gl	oth/un	20°C	1.00M	C			K1=26.3	1976AMa (89597)	624
------	----	--------	------	-------	---	--	--	---------	-----------------	-----

Medium: NaBr/NaCl04. 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  
-----  
Pd++ gl R4N.X 25°C 0.10M U K1=8.5 1990AFa (90224) 625  
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  
\*\*\*\*\*  
C14H34N4 L (7402)  
2,6,9,13-Tetramethyl-2,6,9,13-tetraazatetradecane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ gl R4N.X 25°C 0.10M C K1=22.95 1998BBa (90834) 627  
K(PdL+H+Cl)=9.30  
B(PdH-1L)=13.96  
K(PdL+OH)=4.82  
K(PdClHL+H+Cl=PdCl2H2L)=4.52

Medium: 0.1 M Me4NCl  
\*\*\*\*\*  
C14H35N7 L CAS 296-85-5 (9052)  
1,4,7,10,13,16,19-Heptaazacycloheicosane;

-----  
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(Pd2LCl)=>52

By calorimetry: DH(PdCl4+H7L)=-6.3 kJ mol<sup>-1</sup>.  
\*\*\*\*\*  
C14H37N7 L CAS 298-85-5 (5606)  
1,4,7,10,13,16,19-Heptaazacycloheicosane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----  
Pd++ cal NaCl 25°C 0.50M U HM 1993BBa (90917) 629  
DH(2PdCl4+L=Pd2LC12+6Cl)=-119.2 kJ mol<sup>-1</sup>



\*\*\*\*\*  
 C15H10N3OBr HL (5128)  
 4-(5-Bromo-2-pyridylazo)-1-hydroxynaphthalene;

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----  
 Pd++ dis NaCl ? ? U 1967GVc (90944) 630  
 K(Pd+HL=PdL+H)=7.05  
 \*\*\*\*\*

C15H12N4 L (4056)  
 2-Picolinaldehyde 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  
 \*\*\*\*\*

C15H14NO3Cl HL 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/H2O  
 \*\*\*\*\*

C15H16N2O2 HL CAS 7397-15-1 (6853)  
 Peonolphenylhydrazone;

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----  
 Pd++ 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 HL 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  
 -----  
 Pd++ sp oth/un ? ? U 1967GVb (91942) 634  
 K(Pd+HL=PdL+H)=6.3  
 \*\*\*\*\*

C15H16S2 L CAS 42837-97-3 (5105)  
 1,3-Bis(phenylthio)propane; C6H5.S.CH2.CH2.CH2.S.C6H5

-----  
 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
 -----  
 Pd++ sp alc/w 25°C 100% U M 1969CCa (91967) 635  
 K(PdI4+L=PdLI2+2I)=-1.18  
 Medium: CH3OH.  
 \*\*\*\*\*

C15H17N4OBr HL CAS 14357-53-2 (712)  
2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol; BrC5H3N.N:N.C6H3(OH)N(CH3)2

-----  
Metal 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 L CAS 729600-13-9 (9258)  
2,3,6,7,9,10-Hexahydro-5H-[1,4,7,11]dioxadithioclotridecino[2,3-b]quinoxalene;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ nmr mixed 25°C 60% C K1=3.53 2004HHa (92008) 637  
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.

\*\*\*\*\*  
C15H18N4O HL CAS 14337-52-1 (5124)  
5-Diethylamino-2-(2-pyridylazo)phenol;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un ? ? U 1967GVa (92098) 638  
K(?)=6.0

\*\*\*\*\*  
C15H20N4 L DPTN CAS 63671-70-5 (1851)  
N,N'-Bis-(2-pyridylmethyl)-1,3-diaminopropane; (C5H4N.CH2.NH.CH2)2CH2

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C 1.00M C K1=39.1 1985YAA (92185) 639  
Medium: NaBr

\*\*\*\*\*  
C15H25N3O10 H5L (5127)  
Diethylenetriamine-N,N,N'',N''-tetraethanoic acid-N'-propanoic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ dis NaCl ? ? U 1967GVc (92380) 640  
K(Pd+HL=PdL+H)=6.57

\*\*\*\*\*  
C15H37N5 L CAS 3803-11-2 (1798)  
2,5,8,11,14-Pentamethyl-2,5,8,11,14-pentaazapentadecane;

-----  
Metal 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+Cl)=5.76  
B(PdH-1L)=10.95  
K(PdL+OH)=3.4



Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	diox/w	25°C	40%	C			K1=9.37	1986KHa (93483)	647
*****										
C16H18S2		L						(5144)		
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
Pd++	sp	alc/w	25°C	100%	U	M			1969CCb (93901)	648
K(PdI4+L=PdLI2+2I)=1.23										
Medium: MeOH										
*****										
C16H18S2		L						(5145)		
1,2-Bis(4-tolylthio)ethane; CH3.C6H4.S.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	M			1969CCb (93902)	649
K(PdI4+L=PdLI2+2I)=1.96										
*****										
C16H22N4		L		DPTE				CAS 81747-99-1 (1852)		
N,N-Bis-(2-pyridyl-methyl)-1,4-diaminobutane; (C5H4N.CH2.NH.CH2.CH2)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	oth/un	25°C	1.00M	C			K1=37.0	1985YAA (94183)	650
Medium: NaBr										
*****										
C16H24N6O5		L		Pro-Gly-Ala-His				(7404)		
Prolyl-glycyl-alanyl-histidine;										

Metal	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.

\*\*\*\*\*

C16H26N2O12		H4L						(6659)		
1,4,10,13-Tetraoxa-7,16-diaza-2,3,11,12-tetracarboxycyclooctadecane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	gl	R4N.X	25°C	0.10M	U			K1=12.1	1990AFa (94591)	652
B(PdHL)=18.4										
*****										
C16H26N2O12		H4L						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
Pd++	gl	R4N.X	25°C	0.10M	U			K1=14.1 B(PdHL)=20.0	1990AFa (94605)	653
*****										
C16H29N3O8		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
Pd++	gl	KCl	25°C	0.10M	C			K1=16.58 K(PdL+H)=4.88 K(PdHL+H)=2.18 B(Pd2L)=19.82 K(Pd(OH)L+H)=10.77	1993DSa (94977)	654
*****										
C16H40N8		L						CAS 297-11-0	(5588)	
1,4,7,10,13,16,19,22-Octaazacyclotetracosane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	cal	NaCl	25°C	0.50M	U	HM			1993BBa (95661)	655
DH(2PdCl4+L=Pd2LC12+6Cl)=-118.8 kJ mol-1										
*****										
C17H16N4O2S		HL						CAS 202867-34-3	(7313)	
2-[2-(5-Methylbenzothiazolyl)azo]-5-dimethylaminobenzoic acid;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pd++	sp	alc/w	RT	16%	C			K1eff=6.88	1998FZa (96110)	656
Medium: 16% EtOH/H2O.										
*****										
C17H20S2		L						(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
Pd++	sp	alc/w	25°C	100%	U	M			1969CCb (96359)	657
K(PdI4+L=PdLI2+2I)=-1.04										
Medium: CH3OH.										
*****										
C17H20S2		L						(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	M			1969CCb (96360)	658
K(PdI4+L=PdLI2+2I)=-0.77										
*****										

C17H24N4 L CAS 49764-71-3 (5757)  
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  
-----

Pd++ sp oth/un 25°C 1.00M C I M K1=34.7 1985YAa (96436) 659  
Medium: NaBr. Ternary complex with Br-

\*\*\*\*\*  
C18H15O3PS HL CAS 16704-71-5 (3365)  
3-Diphenylphosphino-benzene sulfonic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ ISE NaClO4 25°C 1.0M U K1=10.2 B2=20.00 1972CBa (97110) 660  
K3=6.3  
K4=4.9

\*\*\*\*\*  
C18H15P L 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+Cl)=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.

-----  
Pd++ kin non-aq 25°C 100% U T HM 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

\*\*\*\*\*  
C18H18N2O2S2 L CAS 729600-12-8 (9257)  
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  
-----

Pd++ nmr mixed 25°C 60% C K1=3.82 2004HHa (97229) 663  
Method: 1H nmr. Medium: 60% CD2Cl2/CD3CN.

\*\*\*\*\*  
C18H26N4 L 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

\*\*\*\*\*

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  
-----

Pd++ gl NaClO4 25°C 0.5M C K1=18.73 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 L 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 NaClO4 25°C 0.10M C K1=18.32 1987HPa (98924) 666

\*\*\*\*\*

C18H44N6 L (7252)

2,5,8,11,14,17-Hexamethyl-2,5,8,11,14,17-hexaazaooctadecane;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl R4N.X 25°C 0.10M C M 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-1LC1)=33.9, K(Pd2LC12+H+Cl)=5.8

\*\*\*\*\*

C19H14O7S H4L Pyrocatechol Vi CAS 369596-29-2 (709)

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  
-----

Pd++ 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.

\*\*\*\*\*

C19H24N2OS L (2547)

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 L 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-aq 25°C 100% C 2001LPb (101075) 670  
K(PdLCl2+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  
-----

Pd++ sp NaClO4 26°C 0.10M C K1=14.90 1983UCa (101119) 671  
For the ligand, K1=14.4, K2=3.6.

\*\*\*\*\*

C21H21P L CAS 6163-58-2 (600)  
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

\*\*\*\*\*

C21H22N4O HL CAS 56932-30-0 (5308)  
1-Hydroxy-2-(2-N-methylanabasiny1-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

\*\*\*\*\*

C22H26N3OF3S L Fluphenazine CAS 146-56-5 (2548)  
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 1978JOa (101926) 674

\*\*\*\*\*

C23H16O9Cl2S H4L Chrome azuro1 S CAS 1667-99-8 (711)  
Chromazuro1 S;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----



-----  
Pd++ sp KCl 25°C 0.10M C K1=6.36 1975ISa (102565) 675  
-----

Pd++ sp NaNO3 25°C 0.10M U 1972MSd (102566) 676  
B(Pd2L)=9.80  
B(Pd2L2)=15.27  
K(Pd+HL)=4.90  
-----

Pd++ sp oth/un 25°C ? U 1963SDc (102567) 677  
K(?)=4.8  
-----

\*\*\*\*\*  
C23H18O9S H4L Eriochrome cyan CAS 3564-18-9 (433)  
4'-Hydroxy-3,3'-dimethyl-2''-sulfofuchsone-5,5'-dicarboxylic acid;  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C ? U 1970SMd (102634) 678  
K2eff=5.0 (pH=4.5)  
-----

\*\*\*\*\*  
C23H31N3O4 H2L (7088)  
1,4,7-Trimethyl-1,7-bis(4-carboxybenzyl)-1,4,7-triazaheptane;  
CH3N(CH2CH2N(CH3)CH2C6H4COOH)2  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl NaCl 25°C 0.15M C M 1995BBc (102773) 679  
B(PdLCl)=19.10  
B(PdHLCl)=23.15  
K(PdLCl+H)=4.05  
-----

\*\*\*\*\*  
C24H23N9O2 HL (5330)  
1,5-Bis(4-antipyrinyl)-3-cyanoformazan;  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp NaClO4 25°C 0.10M U K1=28.1 1971BSf (102934) 680  
-----

\*\*\*\*\*  
C26H25NO9S H4L Semi-Xylenol O (426)  
3-(N,N-Di(carboxymethyl)aminomethyl)-2-cresolsulfonephthalein;  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp KNO3 25°C 0.10M C I 1991HKg (103948) 681  
B(Pd2L)=26.62  
-----

\*\*\*\*\*  
C27H29NO11 L Adriamycin CAS 25316-40-9 (2407)  
Doxorubicin;  
-----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ gl oth/un 25°C 0.10M U 1986FGa (104461) 682  
K(Pd+HL=0.5(PdL)2)=22.1

Medium not stated.

\*\*\*\*\*

C30H50N6 L (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.

\*\*\*\*\*

C31H32N2O13S H6L Xylenol orange CAS 63721-85-5 (432)  
5,5'-Bis-N,N-bis(carboxymethyl)aminomethyl-4'-hydroxy-3,3'-dimethylfuchsone-2"-sulfonic acid;

-----  
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo  
-----

Pd++ sp oth/un 25°C ? U 19630Ta (105488) 684  
K(?)=10.3

\*\*\*\*\*

C32H44N10O4 L 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.

\*\*\*\*\*

C35H57N5O4 L CAS 160320-59-2 (7393)  
1,4,7-Trimethyl-19,22,28,31-tetraoxa-1,4,7,12,23-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(PdHLC1+H)=5.6.

REFERENCES

2004AEa M Akatyeva, O Erofeeva, N Dobrynina et al; *Koord. Khim.* 30, 621 (2004)  
 2004GLa Y Guo, H Lin, Q Ge, S Zhu; *J. Coord. Chem.*, 57, 61 (2004)  
 2004HHa A Holzberger, H Holdt, E Kleinpeter; *Org. Biomol. Chem.*, 2, 1691 (2004)  
 2003AMb C Agoston, Z Miskolczy, Z Nagy, I Sovago; *Polyhedron*, 22, 2607 (2003)  
 2003CBa J Cosden, R Byrne; *Geochim. Cosmo. Acta*, 67, 1331 (2003)  
 2003GZa E Gao, D Zhang, Q 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; *Polyhedron*, 21, 167 (2002)  
 2002WBa W Wirth, J Blotevogel-Baltronat; *Inorg. Chim. Acta*, 339, 14 (2002)  
 2001AAa Z Anwar, H Azab; *J. Chem. Eng. Data*, 46, 34 (2001)  
 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 Jovanovic; *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 Upadhyaya, 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)

1997WYa B Wang,P Yang; J.Inorg.Chem.(China),13,227 (1997)

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)

1990GBb G Gavioli,M Borsari,L Menabue et al; J.Chem.Soc.,Dalton Trans.,1585 (1990)

1990ISa K Idriss,M Saleh et al; Monatsh.Chem.,121,625 (1990)

1990IWa R Izatt,G Wu,W Jiang,N Dalley; Inorg.Chem.,29,3828 (1990)

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)  
1987HPa R Hay,M Pujari,W Moodie et al; J.Chem.Soc.,Dalton Trans.,2605 (1987)  
1987KUa V Kornev,E Ugryumova,A Trubacheva; Koord.Khim.,13(6)814 (1987)  
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)  
1985YAA Q Yan,G Anderegg; Inorg.Chim.Acta,105,121 (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)  
1981CMB J Coe,E Mentasti; J.Chem.Soc.,Dalton Trans.,137 (1981)  
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; Roczn.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; Roczn.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)  
1972OLa A Osipov, V Likhobolov; Isvest.VUZ.Khim., 15, 8, 1166 (1972)  
1972OMa T Onauchi, S Matsuhira; Nippon Kagaku Kaishi, 1010 (1972)  
1972RHa T Rhyll; 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)  
1971DUa V Dubinskii; Zh.Neorg.Khim., 16, 1145(E:607) (1971)  
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)  
1969JSa J Jaimni, N Sogani; Bull.Acad.Polon.Sci.Chim., 17, 157 (1969)  
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)  
1967ANA R Anderson, G Nickless; Anal.Chim.Acta, 39, 469 (1967)  
1967BSc A Biryukov, V Shlenskaya; Zh.Neorg.Khim., 12, 2579 (1967)  
1967CMb J Coe, A Malik; Inorg.Nucl.Chem.Lett., 3, 99 (1967)  
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)  
1967MBe J Mathur,S Banerji; J.Indian Chem.Soc.,44,513 (1967)  
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 Kutuykov,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)  
1964GPa A Golub,G Pomerants; Zh.Neorg.Khim.,9,1624 (1964)  
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)  
1964PSg D Purohit,N Sogani; Z.Anorg.Chem.,331,220 (1964)  
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)  
19630Ta M Otomo; Bull.Chem.Soc.Jpn.,36,137,140,889,1341 (1963)  
1963SDc S Sangal,A Dey; J.Indian Chem.Soc.,40,279;464 (1963)  
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

EVALUATION Flags are :-

T or IUP=T signifies EVALUATION RATING = Tentative by IUPAC

---

END