SC-Database
Software version = 5.81 Data version = 4.62
Experiment list contains 447 experiments for
 (no ligands specified)
 3 metals : Pt(IV), Pt(not2,4), Pt++
 (no references specified)
 (no experimental details specified)

****

e- HL Electron (442)
Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference		ExptNo
Pt(IV)	EMF	none	25°C	0.00	U	T	K=24.54(726mV) K'=20.72(613mV)	1972GIa	(815)	1
K: PtCl6-- + 2e=PtCl4-- + 2Cl-. At 60 C, K=21.72(718mV) K': PtBr6-- + 2e=PtBr4-- + 2Br-. At 60 C, K=18.40(608mV)										
Pt(IV)	EMF	NaClO4	25°C	3.00M	U	TI	K=-1.12	1972GIa	(816)	2
Medium: HClO4; K: Pt(s) + PtCl6-- + 2Cl-=2PtCl(II)4--; K=-1.70(60 C). In 3M HCl, K=-1.14(25 C), -1.68(60 C). In 3 M NaClO4, K=-0.80(25 C), -1.39(60 C)										
Pt(IV)	EMF	NaClO4	25°C	3.00M	U	TI	K=-2.86	1972GIa	(817)	3
Medium: HClO4; K: Pt(s) + PtBr6-- + 2Br-=2PtBr4 --. K=-2.70(60 C). In 3M HBr K=-2.88(25 C), -2.77(60 C); In 3 M NaClO4, K=-2.70(25 C), -2.59(60 C)										
Pt(IV)	oth	oth/un	25°C	0.07M	U	M	K=18.59(550mV,A=1/2en)	1969PEa	(818)	4
K: trans-PtA4Cl2++ + 2e=PtA4++ + 2Cl-. K=20.39(603mV, A=MeNH2). K=20.28(600mV,A=NH3). K=21.70(642mV, A=EtNH2). Method: from thermodynamics										
Pt(IV)	EMF	KCl	25°C	1.00M	U	I M	K=19.58, 579.0 mV K'=20.85, 616.8 mV	1968GDd	(819)	5
K: Pt(en)2Cl2 + 2e=Pt(en)2++ + 2Cl; K': Pt(MeNH2)4Cl2+2e=Pt(MeNH2)4+2Cl Data in DMSO and with HCl and many substituted amines										
Pt(IV)	oth	NaClO4	60°C	3.00M	U		K=16.01, 529mV	1968GLa	(820)	6
Medium: 3 M NaCl+NaClO4. In HCl+HClO4: K= 15.82, 523mV. K: PtCl6-- + 2Ag(s) = PtCl4-- + 2AgCl(s)										
Pt(IV)	EMF	NaCl	20°C	0.10M	U	T M	K=22.83(664mV,20 C)	1968ZMa	(821)	7
K: PtAX2+ + 2e=PtA+ + 2X-(A=(MeNH2)3NO2,X=Cl). K=19.35(678mV,80 C). X=Br: 23.97,(697mV,20 C), 15.64(548,80 C). X=OH: 4.68(136mV,20 C), 3.08(108mv,80C)										

Pt(IV) oth NaClO4 60°C 3.00M U 1967GLa (822) 8
K=-1.35
Medium: 3 NaCl+NaClO4. With HCl+HClO4: K=-1.70. K:Pt(s)+PtCl6+2Cl=2Pt(II)Cl4

Pt(IV) EMF none 25°C 0.0 U M 1966CMb (823) 9
K=26.17, 759 mV
K'=26.97, 763 mV
K: Pt(NH3)2(NO2)2Cl2+2e=Pt(NH3)2(NO2)2+2Cl. K'=Br in place of Cl. Data also for many similar equilibria

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Pt(IV) EMF oth/un 25°C 3.00M U 1964KSa (824) 10
K=23.94(0.708V)
Medium: H2SO4. K: PtCl6-- + 2e=PtCl4-- + 2Cl-

Pt(IV) EMF oth/un 35°C 1.00M U T 1964YTa (825) 11
K=23.88(730mV,35 C)
Medium:HCl. K:PtCl6-- + 2e=PtCl4-- + 2Cl-. K=21.94(747mV,70 C), 21.01(757mV, 90 C)

Pt(IV) EMF none 25°C 0.0 U T H 1961YTa (826) 12
K=24.71(730.8 mV)
K:Pt(IV)Cl6+2e=Pt(II)Cl4+2Cl. DH(K)=-113.8 kJ mol-1, DS=217. At 40 C: K=24.8 770 mV)

Pt(IV) EMF none 25°C 0.0 U 1952LAb (827) 13
K=34(1010 mV)
K: PtO2(s)+2H+2e=Pt(OH)2(s). K(Pt(IV)Cl6+2e=PtCl4+2Cl)=23.0(680 mV). K(Pt(OH)2(s)+2H+2e=Pt(s)+2H2O)=33(980 mV).K(PtBr4+2e=Pt(s)+4Br)=19.6(580 mV)

Pt(IV) EMF oth/un 25°C dil U M 1949GOa (828) 14
K=19.71, 583 mV
K'=20.18, 597 mV
K"=20.29, 600 mV
K: Pt(NH3)4Br2++ + 2e = Pt(NH3)4++ + 2Br-. K'=Pt(NH3)2Br2+2e=cis-Pt(NH3)2Br2 +2Be. K"=trans. Data also for I analogues

---

Pt(IV) EMF oth/un 25°C 1.0M U 1937GPa (829) 15
K=15.83(468 mV)
Medium: KSCN. K: Pt(IV)(SCN)6+2e=Pt(II)(SCN)4+2SCN

Pt(IV) EMF NaCl 25°C 1.0M U TI 1937GPa (830) 16
K=25.6(758 mV)
K: Pt(IV)Cl6+2e=Pt(II)Cl4+2Cl. At 20 C: K=26.0(756 mV). At I=0, 25 C: K= 25.26(747 mV). With Pt(IV)Br6 K=21.41(633 mV); Pt(IV)I6: K=13.02(980 mV)

Pt(IV) EMF none 60°C 0.0 U 1931GRb (831) 17
K=22.5(745 mV)
K: Pt(IV)Cl6+2e=Pt(II)Cl4+2Cl

```
Pt(IV)     EMF none   50°C  0.0  U                        1931STa   (832)  18
                                        K=23.1(740 mV)
K:Pt(IV)Cl6+2e=Pt(II)Cl4+2Cl
--------------------------------------------------------------------------------
Pt(IV)     EMF KCl    35°C 0.10M U                        1930SMa   (833)  19
                                        K=14.96(457.3 mV)
K: Pt(IV)Cl6+2Hg(l)=PtCl4+Hg2Cl2(s). K(Pt(IV)Cl6=2e=PtCl4+2Cl)=26.79(792 mV)
--------------------------------------------------------------------------------
Pt(IV)     EMF none   13°C  0.0  U                        1928TEa   (834)  20
                                        K=31(887 mV)
K: Pt(IV)Cl2(CN)4+2e=Pt(II)(CN)4+2Cl
********************************************************************************
Br-                    HL    Bromide          CAS 10035-10-6  (19)
Bromide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sol none   25°C  0.0  U  I                     1985PKb  (2242)  21
                                        Kout(Pt(en)3+Br)=1.58
                                        Kout(Pt(en)3+2Br)=2.4
Also Kout (1:1 complex)=0.75 (I=0.10 M), 0.33 (I=0.25 M), -0.11 (I=0.50 M)
and Kout (1:2 complex)=0.92 (I=0.10 M), 0.38 (I=0.25 M), -0.3 (I=0.50 M)
--------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 25°C  0.1M C                        1975KNb  (2243)  22
                                        Kout(Pt(pn)3+L)= 0.48
Also for I=0.5 M K1out=-0.22; for 0 M K1out=1.38;
pn=propylenediamine
--------------------------------------------------------------------------------
Pt(IV)     ISE oth/un 42°C  3.0M U TI                     1974KSb  (2244)  23
                                        K6=3.29
Medium: H2SO4. K6=3.17(50 C), 3.09(55 C), 3.01(60 C), 2.88(70 C) m units
In 0.2 M H2SO4: K6=2.58(50 C), 2.41(60 C), 3.49(25 C)
--------------------------------------------------------------------------------
Pt(IV)     EMF NaNO3  40°C  1.0M U    M                  1973KSh  (2245)  24
                                        K(PtACl2+L=PtAClL+Cl)=0.93
                                        K(PtAClL+L=PtAL2+Cl)=0.58
                                        K(PtBCl2+L=PtBClL+Cl)=1.03
                                        K(PtBClL+L=PtBL2+Cl)=0.24
A=(NH3)2(CH3NH2)2; B=(NH3)2(C2H5NH2)2.  K(PtCCl2+L=PtCClL+Cl)=1.04, C=(NH3)2
H2NC2H4OH
--------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 25°C  3.0M U   HM                  1972MNa  (2246)  25
                                        K(Pt(en)3+L)=-0.89
By solubility: K=-0.92
--------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 25°C    ?  U                        1971EGc  (2247)  26
                                        K4=5.04
                                        K5=4.0
                                        K6=3.3
Medium: HClO4
```

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--------------------------------------------------------------------------------
Pt(IV)     gl  oth/un 25°C  var  U T                    1967NPc  (2248)  27
                                      K6=2.4
                                      K(PtL5OH+H)=5.7
--------------------------------------------------------------------------------
Pt(IV)     gl  oth/un 25°C 0.10M U    M                1967NPc  (2249)  28
                                      K(Pt(OH)6+L=Pt(OH)5L)=-4.23
                                      K(Pt(OH)5L+L=Pt(OH)4L2)=-4.3
                                      K(Pt(OH)4Cl2+L=Pt(OH)3L3)=-4.5
                                      K(Pt(OH)3Cl3+L=Pt(OH)2L4)=-4.8
Also chemical analysis.  K(Pt(OH)2L4+L=PtOHL5)=-4.9, K(PtOHL5+L=PtL6)=-5.3
--------------------------------------------------------------------------------
Pt(IV)     gl  oth/un 50°C  var  U                      1965DJa  (2250)  29
                                      K6=2.85
                                      K(PtL5OH+H)=4.4
--------------------------------------------------------------------------------
Pt(IV)     sp  oth/un 40°C  0.0  U T H                  1963GNb  (2251)  30
                                      Kout(Pt(en)3+L)=1.25
Kout=1.14(10 C), 1.18(25 C). DH=6.2 kJ mol-1, DS=40.5 J K-1 mol-1
--------------------------------------------------------------------------------
Pt(IV)     sp  none   25°C  0.0  U    M                1960NPa  (2252)  31
                                      K1out(Pten3+Br)=0.9
********************************************************************************
CO3--                 H2L    Carbonate        CAS 465-79-6  (268)
Carbonate;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 25°C  0.1M C                      1975KNb  (3352)  32
                                      Kout(Pt(en)3+L)= 2.42
Also for I=0.5 M K1out=1.76; for 0 M K1out=4.15;
********************************************************************************
Cl-                    HL    Chloride         CAS 7647-01-0  (50)
Chloride;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sol NaCl   100°C  1.0M C T                   1995GAa  (5503)  33
                                      K5=1.46
Method: solubility of AgCl in Pt solution, 0.03-3.0 m HCl.
At 200 C, K5=0.15, at 300 C, K5=0.13; at 300 C, K4=2.26
--------------------------------------------------------------------------------
Pt(IV)     sol oth/un 25°C  0.0  U  I                  1989GPa  (5504)  34
                                      Kout(cis-Pt(phen)2Cl2+Cl)=3.26
Medium: NaF.  Also Kout=3.03 (I=0.1 M NaF), 2.63 (I=0.25 M),
2.25 (I=0.50 M), 2.07 (I=0.75 M).
--------------------------------------------------------------------------------
Pt(IV)     sol none   25°C  0.0  U  I                  1985PKb  (5505)  35
                                      Kout(Pt(en)3+Cl)=1.84
                                      Kout(Pt(en)3+2Cl)=3.8
```

Also Kout (1:1 complex)=1.09 (I=0.10 M), 0.62 (I=0.25 M), 0.22 (I=0.50 M)
and Kout (1:2 complex)=1.51 (I=0.10 M), 0.48 (I=0.25 M), -0.16 (I=0.50 M)

Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (5506) 36
Kout(Pt(pn)3+L)= 0.68
Also for I=0.5 M K1out=0.15; for 0 M K1out=1.51;
pn=propylenediamine

Pt(IV) EMF NaNO3 40°C 1.0M U M 1973KSe (5507) 37
K(PtL2A4+L)=3.15
K(PtL3A4+L)=2.55
A=CH3NH2. Data also for many other substituents

Pt(IV) EMF oth/un 25°C 3.0M U T H 1972KSb (5508) 38
K6=2.88
Medium: H2SO4. DH(K6)=-30.5 kJ mol-1. K6=2.72(35 C), 2.55(42 C), 2.49(50 C)

Pt(IV) sp NaClO4 25°C 3.0M U HM 1972MNa (5509) 39
K(Pt(en)3+L)=-0.25
By solubility: K=-0.21

Pt(IV) EMF oth/un 25°C ? U T M 1971ZFc (5510) 40
K(Pt(OH)2(NH3)4+L)=-1.42
K(Pt(OH)2(NH3)3NO2+L)=-0.02
At 50 C: values: -1.22, 0.08

Pt(IV) oth oth/un ? var U 1970CPa (5511) 41
K(PtL4(H2O)OH+H)=1.9
K(PtL4(OH)2+H)=5.5
Method: ir and Raman

Pt(IV) EMF oth/un 25°C 3.0M U T HM 1970KSa (5512) 42
K6=2.76
Medium: H2SO4. DH(K6)=-23.0 kJ mol-1. K6=2.72(35 C), 2.61(42 C), 2.49(50 C),
2.41(60 C). In 0.2 M H2SO4, 25 C: K6=2.36

Pt(IV) gl oth/un ? dil U 1970MMg (5513) 43
K(PtCl5OH+H)=3.80

Pt(IV) EMF NaClO4 60°C 3.0M U 1968GLa (5514) 44
K6=1.54

Pt(IV) gl KNO3 20°C 0.10M U T 1966GKd (5515) 45
K(trans-Pt(NH3)2L3+L)=2.40
K(trans-Pt(NH3)2L2+L)=3.7
Also values at 20 - 50 C

Pt(IV) ISE NaClO4 25°C var U 1966SDb (5516) 46
K5K6=5.60

```
Pt(IV)     gl  NaCl   50°C  var  U                        1965DJa  (5517)  47
                                      K6=1.49
                                      K(PtL5OH+H)=3.8
-------------------------------------------------------------------------------
Pt(IV)     gl  KCl    40°C  var  U T                      1965NPb  (5518)  48
                                      K5=3.7
                                      K6=2.25
                                      K(PtL5OH+H)=5
K(PtL4(H2O)OH+H)=4.2(25-45 C), K(PtL4(OH)2+H)=6.2(25-35 C)
-------------------------------------------------------------------------------
Pt(IV)     sol none   20°C  0.0  U                        1963CRb  (5519)  49
                                      K(Cs2PtL6(s)=2Cs+PtL6)=-11.08
-------------------------------------------------------------------------------
Pt(IV)     sp  oth/un 40°C  0.0  U T H                    1963GNb  (5520)  50
                                      Kout(Pt(en)3+L)=1.29
Kout=1.17(10 C), 1.24(25 C). DH=6.7 kJ mol-1, DS=46 J K-1 mol-1
-------------------------------------------------------------------------------
Pt(IV)     sp  none   25°C  0.0  U                        1960NPa  (5521)  51
                                      Kout(Pt(en)3+L)=1.04
*******************************************************************************
ClO4-                  HL    Perchlorate      CAS 7001-90-3  (287)
Perchlorate;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 20°C 0.15M U    M                   1960RSa  (6356)  52
                                      K(Pt(en)3+L) < 0.74
*******************************************************************************
F-                     HL    Fluoride         CAS 7644-39-3  (201)
Fluoride;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt(IV)     sol NaClO4 25°C  3.0M U    M                   1972MNa  (7120)  53
                                      K(Pt(en)3+F)=0.04
*******************************************************************************
FClBrI                 HL                        (541)
Halides, comparative (for book data under ligand 80)
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 25°C  5.0M U  I M                   1968PVa  (7417)  54
                                      K(PtA4I2+Cl=PtA4+I2Cl)=-4.22
A=CN.  K=-3.55(Br,I=5),-1.63(I,I=0.5)
-------------------------------------------------------------------------------
Pt(IV)     sp  NaCl   25°C 0.20M U                        1965RJa  (7418)  55
                                      K(PtA4Cl2+Br=PtA4ClBr+Cl)=1.2
                                      K(PtA4ClBr+Br=PtA4Br2+Cl)=0.64
A=NH3
-------------------------------------------------------------------------------
```

Pt(IV) sp oth/un 20°C 0.50M U M 1963POb (7419) 56
K(trans-Pt(en)2Cl2+Br=Pt(en)2ClBr+Cl)=1.06; K(Pt(en)2ClBr+Br=Pt(en)2Br2+Cl)
=0.63

Pt(IV) oth oth/un 25°C 0.50M U T H 1960PVa (7420) 57
B6(I)/B6(Cl)=18.24
B6(I)/B6(Br)=15.93
Method: chemical anal. B6(I)/B6(Cl)=19.30(0 C),17.09(45 C); /Br=17.79(0 C),
15.10(44 C). DH(PtCl6+6I=PtI6+6Cl)=-79 kJ mol-1. DH(PtBr6+6I=PtI6+6Br)=-96
****
I- HL Iodide CAS 10034-85-2 (20)
Iodide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (8328) 58
Kout(Pt(pn)3+L)= 0.0.34
Also; for 0 M K1out=1.23;
pn=propylenediamine

Pt(IV) sol NaClO4 25°C 3.0M U 1972MNa (8329) 59
K(Pt(en)3+I)=-1.05

Pt(IV) EMF oth/un 25°C dil U T M 1971ZFa (8330) 60
K(cis-PtA2L2(H2O)OH+H)=2.45
K(trans-PtA2L2(H2O)OH+H)=2.52
K'(cis-PtA2L2(OH)2+H)=3.68
K'(trans-PtA2L2(OH)2+H)=3.71
A=NH3. K(cis)=3.43(0 C), 2.26(50 C). K(trans)=3.38(0 C), 2.26(50 C)
K'(cis)=4.25(25 C), 3.41(50 C). K'(trans)=4.25(25 C), 3.46(50 C)

Pt(IV) EMF oth/un 25°C dil U 1971ZFb (8331) 61
K(Pt(NH3)3I(H2O)OH+H)=2.65
K(Pt(NH3)3I(OH)2+H)=3.23
K(Pt(NH3)3I2OH+H)=3.35
0-50 C

Pt(IV) ISE oth/un 25°C dil U 1967CPb (8332) 62
K4=4.8
K5=4.4
K6=3.4
K(PtI4+I=PtI3+I2)=0.8
Also spectrophotometry, glass electrode, kinetics. K(PtI5OH+H)=8.6
K(PtI6=Pt(II)I4+I2)=8.1

Pt(IV) gl oth/un 25°C 0.10M U 1967NPc (8333) 63
K(Pt(OH)6+L=Pt(OH)5L+OH)=-1.57
K(Pt(OH)5L+L)=-1.82
K(Pt(OH)4L2+L)=-1.87
K(Pt(OH)3L3+L)=-2.0

K(Pt(OH)2L4+L=Pt(OH)L5+OH)=-2.38, K(PtOHL5+L=PtL6+OH)=-3.38

Pt(IV) sp oth/un 40°C 0.0 U T H 1963GNb (8334) 64
Kout(Pt(en)3+L)=1.20
Kout=1.11(10 C),1.15(25 C). DH=5.4 kJ mol-1, DS=40 J K-1 mol-1

****

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	none	25°C	0.0	U		1997FHa (9198)		65

*K((NH3)3Pt(NH2)3Pt(NH3)3)=-7.75. Reaction is proton loss from a terminal NH3

****

NH3O L Hydroxylamine; CAS 5470-11-1 (1808)
Hydroxylamine; NH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	kin	NaCl	25°C	0.10M	U		1998HHa (9272)		66
							Kout(PtCl6+L)=2.19		
							Kout(trans-PtCl4(NH3)2+L)=1.75		
							Kout(cis-PtCl4(NH3)2+L)=1.68		

****

NO3- HL Nitrate CAS 7697-37-2 (288)
Nitrate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sol	none	25°C	0.0	U	I	1985PKb (9878)		67
							Kout(Pt(en)3+NO3)=2.38		
							Kout(Pt(en)3+2NO3)=3.92		

Also Kout (1:1 complex)=1.39 (I=0.10 M), 0.75 (I=0.25 M), 0.36 (I=0.50 M) and Kout (1:2 complex)=2.18 (I=0.10 M), 1.0 (I=0.25 M), 0.25 (I=0.50 M)

Pt(IV)	sp	oth/un	25°C	0.0	U		1960NPa (9879)		68
							Kout(Pt(en)3+L)=-0.1		

****

OH- HL Hydroxide (57)
Hydroxide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	25°C		U		1969SJb (11965)		69
							K=4.84		

K: trans-Pt(CN)4Br2 + OH=Pt(CN)4BrOH + Br

Pt(IV)	gl	oth/un	25°C	dil	U	M	1968GGe (11966)		70
							*K1(Pt(NH3)5Cl)=-8.05		

*K2(Pt(NH3)5Cl)=-10.72
*K1(NH3)4(py)Cl=-6.92
*K2(NH3)4(py)Cl)=-10.52
For Pt(NH3)4(py)2Cl: *K1=-5.74, *K2=-10.12

Pt(IV) gl oth/un 25?°C dil U M 1967GIb (11967) 71
*K1(tr-Pt(NH3)2(py)2Cl2)=-9.96
*K1(cis-Pt(NH3)2py2Cl2)=-9.39

Pt(IV) gl oth/un 25°C dil U M 1966GGd (11968) 72
*K1(Pt(NH3)4Cl2)=-11.17
*K1(Pt(NH3)3(py)Cl2)=-10.00
*K1(tr-Pt(NH3)2(py)2Cl2)=-9.95
*K1(cis-Pt(NH3)2(py)2Cl2)=-9.4

Pt(IV) sol oth/un 20°C var U M 1964CBb (11969) 73
*K1(Pt(NH3)2(CN)3Cl)=-12.7
*K1(Pt(NH3)2(CN)2Br)=-12.8
*K1(Pt(NH3)2(CN)3I)=-13.0
*K1(Pt(MeNH2)2(CN)2I2)=-14.05
Data also for Pt(MeNH2)2(CN)3X): *K1=-12.9(X=Cl,Br), -13.3(X=I) plus others

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Pt(IV) gl oth/un 20°C dil U M 1964CBc (11970) 74
*K1(Pt((en)(CN)2(NH3)Cl)=-8.6

Pt(IV) sol KCl 20°C 0.10M U M 1963CBa (11971) 75
*K1(Pt(CN)4(NH3)2)=-12.12

Pt(IV) gl oth/un 25°C 0.40M U I M 1962JBa (11972) 76
*K1(Pt(NH3)6)=-7.80
*K2(Pt(NH3)6)=-11.1
At I=0.02 M *K1=-7.20, *K2=-10.5. Data also for Pt(NH3)5Cl, Pt(NH3)4Cl2 and Pt(NH3)3Cl3

Pt(IV) con oth/un 25°C 0.01M U I M 1962JBa (11973) 77
*K1(trans-Pt(en)2Cl2)=-11.0
By glass electrode, I=0.16 M *K1=-11.3

Pt(IV) gl oth/un 25°C 0.02M U M 1962JBa (11974) 78
*K1(trans-Pt(en)2H2OCl)=-3.70
*K2 < -10.8
Data for other related complexes

Pt(IV) gl oth/un 20°C dil U M 1961CKb (11975) 79
*K1=-10.1(X=Cl)
*K1=-9.9(X=Br)
*K1=-6.7(X=I)
Metal: Pt(en)(NH3)2X2++. Data also for many similar mixed complexes

---

Pt(IV) gl oth/un 18°C dil U M 1961GGd (11976) 80

*K1(Pt(NH3)5Cl)=-8.4
*K2=-10.5
*K1(Pt(MeNH2)4NH3Cl)=-6.8
*K2=-10.6

Pt(IV) gl oth/un ? dil U 1961KUb (11977) 81
*K1=-4.99
Metal: Pt(ClNCH2CH2NHCl)PyNO2NH3Cl+

Pt(IV) EMF oth/un 29°C dil U 1960PSa (11978) 82
*K1(Pt(NH3)6)=-7.16 in H2O
*K1(Pt(NH3)6)=-7.80 in D2O

Pt(IV) gl oth/un 25°C dil U M 1959GVa (11979) 83
*K1(trans-Pt(NH3)4Cl2)=-11.2
*K1(cis)=-9.46
*K2(cis)=-10.25
*K1(Pt(pn)3)=-5.41
*K2(Pt(pn)3)=-9.60, *K3=-10.68; *K1(Pt(pn)2Cl2)=-8.21, *K2(cis)=-10.36
*K2(trans)=-10.47

Pt(IV) EMF oth/un 20°C var U M 1956JOa (11980) 84
*K1(Pt(NH3)6)=-7.75
Data also for Pt(NH3)5Cl, PtNH3)3Cl3

Pt(IV) gl oth/un 25°C dil U M 1949GGc (11981) 85
*K1(Pt(MeNH2)4Cl2)=-10.85
*K1(Pt(EtNH2)4Cl2)=-11.2

Pt(IV) gl oth/un 25°C dil U M 1948GGa (11982) 86
*K1(Pt(NH3)6)=-7.92
*K2(Pt(NH3)6)=-10.08
Data also for Pt(NH3)5OH, Pt(NH3)5Br, Pt(NH3)3Cl3 etc.

Pt(IV) sp oth/un 20°C dil U T HM 1930GFa (11983) 87
*K1(Pt(NH3)6)=-8.9
DH(*K1)=86.6; *K1=-8.6(30 C), -7.6(50 C). Data also for Pt(NH3)5Cl, Pt(NH3)5OH, Pt(NH3)4Cl2

****

SCN- HL Thiocyanate CAS 463-56-9 (106)
Thiocyanate;

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

---

Pt(IV) sp NaClO4 35°C 1.10M U M 1967MBd (15233) 88
K(PtA4Cl2+L=PtA4ClL+Cl)=2.55
K(PtA4ClL+L=PtA4L2+Cl)=1.08
A=NH3

****

SO3-- H2L Sulfite CAS 7782-99-2 (801)

Sulfite;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (15475) 89
Kout(Pt(en)3+L)= 2.89
Also for I=0.5 M K1out=2.20; for 0 M K1out=4.60;
****
SO4-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (16484) 90
Kout(Pt(en)3+L)= 2.18
Also for I=0.5 M K1out=1.26; for 0 M K1out=3.95;

Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (16485) 91
Kout(Pt(pn)3+L)= 2.01
Also for I=0.5 M K1out=1.08; for 0 M K1out=3.75;
pn=propylenediamine

Pt(IV) sp oth/un 25°C 0.0 U M 1960NPa (16486) 92
Kout(Pt(en)3+L)=3.52
****
SeO3-- H2L Selenite CAS 7783-00-8 (2391)
Selenite;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt(IV) sp NaClO4 25°C 0.1M C 1975KNb (17070) 93
Kout(Pt(en)3+L)= 2.76
Also for I=0.5 M K1out=1.76; for 0 M K1out=4.30;
****
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
---
Pt(IV) sol oth/un 25°C 0.0 U I 1989GPa (17641) 94
Kout(cis-Pt(phen)2Cl2+L)=1.91
Medium: NaF. Also Kout=1.24 (I=0.1 M NaF), 0.29 (I=0.25 M),
-0.32 (I=0.50 M).

Pt(IV) sol none 25°C 0.0 U I 1985PKb (17642) 95
Kout(Pt(en)3+L)=1.3
Also Kout=0.45 (I=0.10 M), 0.37 (I=0.25 M), 0.3 (I=0.50 M)
****
CH5N L Methylamine CAS 74-89-5 (155)
Methylamine; CH3.NH2

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     EMF KNO3   25°C 1.00M U    M                   1973KYb (18028)  96
                                          B(PtL4Cl2)=61.0
********************************************************************************
C2H4N2S3               HL                     CAS 97049-30-4  (4220)
5-Mercapto-1,3,4-thiadiazolidine-2-thione; cyclo(-NH.NH.CS.S.C(SH)-)
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sp  NaClO4 20°C 1.00M U                         1968GKa (19457)  97
                                          B4=8.40
********************************************************************************
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
--------------------------------------------------------------------------------
Pt(IV)     sol oth/un 25°C  0.0  U  I                      1989GPa (20140)  98
                                          Kout(cis-Pt(phen)2Cl2+L)=2.47
Medium: NaF.  Also Kout=1.84 (I=0.1 M NaF), 1.24 (I=0.25 M),
1.04 (I=0.50 M), 0.21 (I=0.75 M).
********************************************************************************
C2H7N                   L    Ethylamine       CAS 75-04-7  (156)
Ethylamine;  CH3.CH2.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     EMF KNO3   25°C 1.00M U    M                   1973KYb (22277)  99
                                          B(PtL4Cl2)=53.9
********************************************************************************
C2H8N2                  L    Ethylenediamine  CAS 107-15-7  (23)
1,2-Diaminoethane; H2N.CH2.CH2.NH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     EMF KNO3   25°C 1.00M U    M                   1973KYb (23224) 100
                                          B(PtL2Cl2)=56.6
********************************************************************************
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
--------------------------------------------------------------------------------
Pt(IV)     gl  NaNO3  15°C 0.10M U T      K1=13.40  B2=18.65  1984IDa (26831) 101
At 30 C, K1=13.35, K2=5.15.
********************************************************************************
C4H7NO4               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
--------------------------------------------------------------------------------
Pt(IV)     gl  NaClO4 25°C 0.10M U        K1=9.56   B2=13.49  1972SSe (31933) 102
********************************************************************************
C5H5N                   L    Pyridine         CAS 110-86-1  (31)
Pyridine, Azine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     EMF KNO3   25°C 1.00M U    M                  1973KYb (36668) 103
                                          B(Pt(NH3)3LCl2)=50.7
                                          B(Pt(NH3)2L2Cl2)=50.2(cis)
                                          B(Pt(NH3)2L2Cl2)=49.6(trans)
                                          B(Pt(NH3)L3Cl2)=43.9
B(PtL4Cl2)=40.8
********************************************************************************
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
--------------------------------------------------------------------------------
Pt(IV)     gl  NaClO4 25°C 0.10M U        K1=8.99   B2=12.68  1972SSe (39122) 104
********************************************************************************
C5H10N4O3               L                     CAS 54376-69-1  (8335)
N,N'-Carbonylbis(2-aminoacetamide);
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     gl  NaClO4 25°C 0.10M U TIH    K1=10.90  B2=17.60  1980SAc (40138) 105
Data for 0.075-0.15 M. At I=0, K1=11.10, K2=6.95. Also data for 30 C.
DH and DS values.
********************************************************************************
C5H11N                  L    Piperidine       CAS 110-89-4  (105)
Perhydropyridine; cyclo(-CH2.CH2.CH2.NH.CH2.CH2-)    C5H11N
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     EMF KNO3   25°C 1.00M U    M                  1973KYb (40453) 106
                                          B(Pt(NH3)2L2Cl2)=55.7(cis)
********************************************************************************
C6H8O6                H2L    Ascorbic acid    CAS 50-81-7  (285)
Ascorbic acid (Vitamin C);
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     kin NaCl   25°C 0.10M U                       1998HHa (45653) 107
                                          Kout(PtCl6+L)=-3.19
                                          Kout(trans-PtCl4(NH3)2+L)=-2.4
                                          Kout(cis-PtCl4(NH3)2+L)=-2.63
```

****

C6H8O6S H3L CAS 99-68-3 (3692)
(Carboxymethylthio)butanedioic acid; HOOC.CH(S.CH2.COOH).CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	30°C	0.0	U			1966NNa (45711)	108
							K(?)=2.65		

****

C7H6O2S H2L Thiosalicylic CAS 147-93-3 (236)
2-Mercaptobenzoic acid; HS.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	oth	alc/w	?	50%	U		K1=4.25	1973NNa (53914)	109
							B3=12.0		

****

C8H8N3OClS L CAS 23499-73-2 (4588)
5-Chlorofurylacrolein thiosemicarbazone; Cl.C4H2O.CH:CH.CH:N.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	20°C	0.10M	U			1972KLa (59395)	110
							B3eff = 10.72 at pH 4		

****

C8H8N4O3S L (4571)
5-Nitrofurylacrolein thiosemicarbazone; O2N.C4H2O.CH:CH.CH:N.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	20°C	0.10M	U			1972KLa (59414)	111
							B3 = 10.60 (pH 4)		

****

C8H9N3OS L CAS 5466-26-2 (4574)
Furylacrolein thiosemicarbazone; C4H3O.CH:CH.CH:N.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	20°C	0.10M	U		B2=11.00	1972KLa (60553)	112

****

C9H11N3OS L CAS 34161-38-1 (4681)
5-Methylfurylacrolein thiosemicarbazone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt(IV)	sp	oth/un	20°C	0.10M	U			1972KLa (66474)	113
							B3=11.25 (pH 4)		

****

C10H11N3S L CAS 5351-70-2 (4734)
Cinnamaldehyde thiosemicarbazone; C6H5.CH:CH.CH:N.NH.CS.NH2

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sp  alc/w  20°C  50%  U                         1972KLa (71086) 114
                                        B3=10.82
Medium: 50% EtOH, 0.1 M, pH=4
********************************************************************************
C18H22N2OS              L    Methoxypromazin  CAS 61-01-8  (2872)
10-(3-Dimethylaminopropyl)-2-methoxyphenothiazine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(IV)     sp  oth/un 27°C 1.00M U                         1984TSa (97511) 115
                                        Keff=5.58
Medium: 1 M H3PO4
********************************************************************************
Br-                    HL    Bromide          CAS 10035-10-6  (19)
Bromide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(not2,4) sp  oth/un 25°C 0.10M U    M                   1985EBa  (2253) 116
                                        K(Pt2A4(H2O)2+L)=1.32
                                        K(Pt2A4L(H2O)+L)=1.34
Pt(III). A=HPO4. Medium: phosphate buffer, pH 3.0
********************************************************************************
Cl-                    HL    Chloride         CAS 7647-01-0  (50)
Chloride;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(not2,4) sp  oth/un 25°C 0.10M U    M                   1985EBa  (5522) 117
                                        K(Pt2A4(H2O)2+L)=1.28
                                        K(Pt2A4L(H2O)+L)=1.04
Pt(III). A=HPO4. Medium: phosphate buffer, pH 3.0
********************************************************************************
OH-                    HL    Hydroxide          (57)
Hydroxide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt(not2,4) sp  NaClO4 25°C  2.0M C                       2001SHb (11984) 118
Metal is Pt(III). *K((H2O)Pt(NH3)2APt(NH3)2(H2O))=-1.98. A is a-pyridonate
K((H2O)Pt(NH3)2APt(NH3)2(H2O)+X)=5.27(X=Cl) and 5.33(X=Br)
********************************************************************************
C6H15P                  L                    CAS 554-70-1  (166)
Triethylphosphine; (C2H5)3P
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

Pt(not2,4) nmr non-aq 0°C 100% U   H   1980MMa (51547) 119
Medium: toluene, Pt(0), -95 to 130 C, DH(PtL3+L=PtL4)=-63 kJ mol-1,DS=-227
****
C9H21P   L   CAS 6476-36-4 (168)
Tri-isopropylphosphine; ((CH3)2CH)3P

Metal   Mtd Medium Temp Conc Cal Flags Lg K values   Reference ExptNo
---
Pt(not2,4) nmr non-aq 0°C 100% U   H   1980MMa (68228) 120
Medium: Toluene(& Octane), Pt(0),-95 to 130 C. DH(PtL2+L=PtL3)=-42,DS=-169
****
C12H27P   L   CAS 998-40-3 (170)
Tri-n-butylphosphine; (CH3.(CH2)3)3P

Metal   Mtd Medium Temp Conc Cal Flags Lg K values   Reference ExptNo
---
Pt(not2,4) nmr non-aq 0°C 100% U   H   1980MMa (84138) 121
Medium: Toluene, Pt(0),T=-95 to 130 C.DH(PtL3+L=PtL4)=-70.2 kJ mol-1,DS=265
****
C13H13P   L   CAS 1486-28-8 (1731)
Diphenyl-methyl-phosphine; CH3(C6H5)2P

Metal   Mtd Medium Temp Conc Cal Flags Lg K values   Reference ExptNo
---
Pt(not2,4) nmr non-aq 0°C 100% U   H   1980MMa (85552) 122
Medium: Toluene, Pt(0),-95 to 130 C. DH(PtL3+L=PtL4)=-64 kJ mol-1,DS=-116
****
C18H33P   L   CAS 2622-14-2 (169)
Tri-(cyclohexyl)phosphine; (C6H11)3P

Metal   Mtd Medium Temp Conc Cal Flags Lg K values   Reference ExptNo
---
Pt(not2,4) nmr non-aq 0°C 100% U   H   1980MMa (98315) 123
Medium: Toluene & heptane. Pt(0). -95 to 130 C.DH(PtL2+L=PtL3)=-54,DS=-202
****
e-   HL   Electron   (442)
Electron;

Metal   Mtd Medium Temp Conc Cal Flags Lg K values   Reference ExptNo
---
Pt++   gl oth/un 25°C 3.00M U TI   1972GIa   (835) 124
                                          K=25.63(758mV,25 C)
K: PtCl4-- + 2e=Pt(s) + 4Cl-. K=23.21(767mV,60C)
In 1 M NaNO3, 18 C, K=24.79(716mV)

Pt++   EMF oth/un 25°C 3.00M U TI   1972GIa   (836) 125
                                          K=23.60(698mV,25 C)
K: PtBr4-- + 2e=Pt(s) + 4Br-. K=21.09(697mV,60 C)
In 1 M NaNO3, 18 C, K=21.05(608mV)

```
Pt++       oth none   25°C  0.0  U    M                  1968GHa   (837) 126
                                        K=26.0(0.77V) X=Cl-
                                        K=21.6(0.64V) X=Br-
                                        K=13.2(0.39V) X=I-
                                        K'=25.4(0.75V) X=Cl-
Method:Literature evaluated data. K: Pt(IV)X6+2e=PtX4+2X.
K': PtX4+2e=Pt(s)+4X.  K'=22.7(0.67V) X=Br-.  K'=13.5(0.40V) X=I-
--------------------------------------------------------------------------------
Pt++       EMF oth/un 35°C 1.00M U T                  1964YTa   (838) 127
                                        K=24.50(749mV,35 C)
Medium:HCl;K:PtCl4-- + 2e=Pt(s) + 4Cl-. K=22.56(768mV,70C),21.60(778mV,90 C)
--------------------------------------------------------------------------------
Pt++       EMF none   25°C  0.0  U                  1952LAb   (839) 128
                                        K=24.5(726 mV)
K: Pt(II)Cl4+2e=Pt(s)+4Cl
--------------------------------------------------------------------------------
Pt++       EMF none   60°C  0.0  U                  1931GRb   (840) 129
                                        K=23.8(785 mV)
K: Pt(II)Cl4+2e=Pt(s)+4Cl
********************************************************************************
Br-                    HL    Bromide          CAS 10035-10-6  (19)
Bromide;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  alc/w  25°C 100%  U                  1994PMc  (2254) 130
                                        K(PtACl2+Br=PtAClBr+Cl)=1.41
                                        K(PtAClBr+Br=PtABr2+Cl)=0.43
                                        K(PtAICl+Br=PtAIBr+Cl)=1.0
Medium: MeOH, 0.5 M LiClO4. A=C6H5S.CH2.CH2.SC6H5.
--------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 0.10M U                  1994SRa  (2255) 131
                                        K(PtAB(H2O)+L=PtABL+H2O)=2.15
A: C6H4.CH2.N(CH3)2; B: NC5H4.SO3-.
--------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 1.00M U  I     K1=1.9      1978ELa  (2256) 132
--------------------------------------------------------------------------------
Pt++       sol oth/un 25°C  1.0M U   HM                1974MKf  (2257) 133
                                        K(Pt(NH3)4+L)=0.3
                                        K(Pt(en)2+L)=0.65
Medium: NaF. By calorimetry.DH(Pt(NH3)4)=-5.2 kJ mol-1,DS=-12.1 J K-1 mol-1
DH(Pt(en)2)=-2.22, DS=5.0
--------------------------------------------------------------------------------
Pt++       nmr non-aq 36°C 100%  U   H                1973RBa  (2258) 134
                                        K=0.32
Medium: CHCl3(S). K: trans-Pt(Bz2S)2L2=cis-Pt(Bz2S)2L2, Bz=benzoyl.
DH(K)=-20.1 kJ mol-1
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C  1.0M U                  1973SAa  (2259) 135
                                        K(H2PtLA+H)=2.26
```

K(HPtLA+H)=2.76
K(PtLA+H)=3.46
K(PtA+L)=1.47
H4A=EDTA. K(PtA+2L)=2.02

Pt++ EMF mixed ? 0.10M U 1972GGb (2260) 136
K(PtH(Ph3P)2+L)=1.51
in 70% w/w acetone/H2O, 0.1 M NH4ClO4. (one (CH3)2CO exchanged for L, trans-complex formed)

Pt++ gl NaNO3 25°C 0.05M U T HM 1972JSa (2261) 137
K=4.51
K: trans-Pt(NH3)2LH2O+L=trans-Pt(NH3)2L2+H2O. DH(K)=-35.6 kJ mol-1
K=4.75(15 C), 4.34(35 C)

Pt++ gl NaNO3 25°C 0.30M U 1972KTc (2262) 138
K(PtL2(DMSO)+L)=3.60

Pt++ ISE KNO3 ? 0.01M U M 1971KTg (2263) 139
K(Pt(DMSO)+L)=5.40

Pt++ oth oth/un 25°C var U M 1971MKd (2264) 140
K(Pt(NH3)2L2+Pt(NH3)2L4)=-4.6
Medium: acetone, KBr. Pt(II)-Pt(IV) complex. Method: dialysis
---
Pt++ sp NaClO4 25°C 0.50M U T M 1970ELb (2265) 141
K3=3.6
K4=2.7
K(cis-trans-PtL2(H2O)2)=-0.34
Medium: HClO4. K3=3.4, K4=2.6(35 C). Data also by kinetics

Pt++ EMF non-aq 450°C 100% U K1=0.13 B2=1.06 1970IJa (2266) 142
Medium: molten (Li,K)Cl; m units

Pt++ sp NaClO4 25°C 1.0M U M 1970MAc (2267) 143
K=2.35
K'=1.76
K: trans-Pt(CN)2Cl2+L=Pt(CN)2ClL+Cl. K': Pt(CN)2ClL+L=Pt(CN)2L2+Cl
---
Pt++ oth oth/un 35°C 0.05M U T H K1=3.82 B2=6.74 1968GVa (2268) 144
Metal:Pt(NH3)2++. Method:chemical analysis. At 25 C:K1=4.05,K2=3.02
DH(K2)=-16.7 kJ mol-1, DS=1.7 J K-1 mol-1

Pt++ oth NaNO3 35°C 0.32M U T 1967MBb (2269) 145
K(PtACl+L=PtAL+Cl)=0.54
A=diethylenetriamine. Method:chemical analysis. K=0.58(25 C). In 'dilute soln.': K1=4.02(25 C), 4.07(35 C)

Pt++ gl oth/un 25°C 0.10M U 1967NPd (2270) 146
K(Pt(OH)4+H+L=Pt(OH)3L)=11.15

K(Pt(OH)3L+H+L=Pt(OH)2L2)=10.7
K(Pt(OH)2L2+H+L=PtOHL3)=10.0
K(PtOHL3+H+L=PtL4)=8.15

Pt++ gl NaNO3 40°C .318M U T 1967TGc (2271) 147
K4=2.40
K(2PtBr3=Pt2Br6)=1.0
K(PtBr3OH+H)=7.9
K4=2.76(15 C), 2.58(25 C)

Pt++ oth NaNO3 25?°C .318M U 1967TMe (2272) 148
K(Pt(dien)+L)=4.3
Method:chemical analysis

Pt++ con oth/un 20?°C dil U 1964CZd (2273) 149
K(Pt(MeNH2)2NO2+L)=4.07

Pt++ sol oth/un 25°C var U 1964GDa (2274) 150
Ks(cis-Pt(NH3)2Br2)=-2.96
Ks(trans-Pt(NH3)2Br2)=-3.66
K(Pt(NH3)2BrH2O+Br)=3.2

Pt++ ix KNO3 18°C 0.10M U M 1962GSe (2275) 151
K(PtPyBr2H2O+Br)=2.35
Method: chemical analysis and cation exchange

Pt++ EMF NaNO3 18°C 1.0M U 1960GGb (2276) 152
B4=20.4
K(Pt+2e=Pt(s))=41.5 (1200 mV)
Method: Pt electrode

Pt++ oth KNO3 25°C 0.10M U T M 1960GSc (2277) 153
K4=2.5
K(cis-PtBr(NH3)2H2O+Br)=2.74
K(trans-PtBr(NH3)2H2O+Br) > 3
By chemical analysis. 17-25 C. K4=2.62(18 C). K(PtBr2(NH3)H2O+Br)=2.4(18 C), K(PtBr(NH3)2H2O+Br)=2.85(18 C,cis).

Pt++ oth none 25°C 0.0 U 1952LAb (2278) 154
B4=20.5
Method: from thermodynamic data; I=0 corr.

Pt++ oth none 25°C 0.0 U 1938LAa (2279) 155
B4=18
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

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Pt++ EMF NaNO3 18°C 1.0M U 1960GGb (2756) 156
B4=41.0
****
CO L Carbon monoxide CAS 630-08-0 (551)
Carbon monoxide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq 20°C 100% U T M 1976GHa (2819) 157
K(PtA+L)=3.53
Medium: C2H2Cl4. PtA=(C6H5)((4-Me2NC6H4)3P)2.I. At 43.6 C: K(PtA+L)=2.53; 2.3 C: > 3.53

Pt++ nmr non-aq 20°C 100% U T M 1976GHa (2820) 158
K((PtA+L)=1.9
Medium: C2H2Cl4. PtA=Pt(II)(P(4-MeC6H4)3)2(ClC6H4).I. Data also for other temperatures and many other substituents on the Pt.
****
C6N6Fe---- H4L (2191)
Hexacyanoferrate (II); Fe(II)(CN)6----

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sol oth/un 25°C 1.00M U 1974MKf (3602) 159
Ks(Pt(NH3)4L=Pt(NH3)4+L)=-6.8
Ks(Pten4L=Pten4+L)=-8.67
Medium: NaF
****
Cl- HL Chloride CAS 7647-01-0 (50)
Chloride;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 25°C 0.11M C I M 2003CBa (5523) 160
Data for 0.105-1.0 M NaCl, pH 3.0-8.5. K(PtCl4+H2O=Pt(OH)Cl3+H+Cl)=-8.85. K=-8.97 (I=0.505), K=-9.08 (I=1.005)

Pt++ gl NaCl 37°C 0.01M U 1999KFa (5524) 161
K(cis-Pt(NH3)2(H2O)2+Cl)=4.52
K(cis-Pt(NH3)2(H2O)Cl+Cl)=2.60
K(trans-Pt(NH3)2(H2O)Cl+Cl)=4.40.

Pt++ dis oth/un 45°C 0.1M U M 1994MAa (5525) 162
K(Pt(NH3)2(H2O)2+L=Pt(NH3)2LH2O)=4.74, K(Pt(NH3)2LH2O+Cl=Pt(NH3)2L2)=3.32
K(Pt(NH3)2AH2O+L=Pt(NH3)2AL)=3.82. A=inosine. Method: HPLC.

Pt++ sp NaClO4 25°C 0.10M U 1994SRa (5526) 163
K(PtAB(H2O)+L=PtABL+H2O)=1.95
A: C6H4.CH2.N(CH3)2; B: NC5H4.SO3-.

```
--------------------------------------------------------------------------------
Pt++       kin non-aq 50°C 100%  U T                    1993DPa  (5527) 164
                                        Kout(Pt(trans-A)pyCl+Cl)=2.85
                                        Kout(Pt(cis-A)pyCl+Cl)=2.82
Medium: DMF. Also data at 60, 70 and 80 C. A: trans-rac- or cis-meso-1,2-dia
mino-cyclohexane.
--------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 1.00M U  I     K1=9.4         1978ELa  (5528) 165
--------------------------------------------------------------------------------
Pt++       ISE KNO3   25°C 0.10M U    M                  1975GKa  (5529) 166
                                        K(Pt(NH3)2NO2+Cl)=4.21 (trans)
                                        K(Pt(NH3)2NO2+Cl)=3.26 (cis)
--------------------------------------------------------------------------------
Pt++       ISE KNO3   25°C 0.50M U    M                  1974KUd  (5530) 167
                                        K(Pt(DMSO)(H2O)3+L)=4.89
                                        K(Pt(DMSO)(H2O)2L+L)=4.22
                                        K(Pt(DMSO)(H2O)L2+L)=2.55
--------------------------------------------------------------------------------
Pt++       EMF KNO3   25°C 0.50M U                      1974KUd  (5531) 168
                                        K(Pt(DMSO)+L)=4.89
                                        K(Pt(DMSO)L+L)=4.22
                                        K(Pt(DMSO)L2+L)=2.55
--------------------------------------------------------------------------------
Pt++       sol oth/un 25°C  1.0M U   HM                  1974MKf  (5532) 169
                                        K(Pt(NH3)4+L)=-0.15
                                        K(Pt(en)2+L)=0.13
Medium: NaF. By calorimetry: DH(both)=0, DS(NH3)=-2.9 J K-12 mol-1,
DS(en)=2.5
--------------------------------------------------------------------------------
Pt++       EMF NaClO4 25°C 0.32M U T HM                  1973CMa  (5533) 170
                                        K(Pt(en)+L)=3.84
                                        K(Pt(en)L+L)=2.66
DH(K1)=4.2 kJ mol-1,DH(K2)=-16.7,K1=3.83,K2=2.63(30 C);K1=3.86,K2=2.56(35 C)
--------------------------------------------------------------------------------
Pt++       gl  mixed  25°C  70%  U    M                  1973GGf  (5534) 171
                                        K(Pt(C2H4)S+L)=1.82
                                        K(Pt(C2H4)S(NH3)2+L)=3.24
                                        K(Pt(PPh3)S(NH3)2+L)=3.17
Medium: 70% w/w acetone/H2O, 0.1 M HClO4. S=DMSO. One DMSO exchanged for Cl
--------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.30M U    M                  1973KSf  (5535) 172
                                        K(Pt(DMSO)(NH3)+2L)=3.19(cis)
                                        K(PtDMSO(NH3)+2L)=4.60(trans)
Data also for Pt(DMSO)(NH2OH)
--------------------------------------------------------------------------------
Pt++       nmr non-aq 29°C 100%  U  IH                  1973RBa  (5536) 173
                                        K=-0.81
Medium: CHCl3. K: trans-Pt(Me2S)2Cl2=cis-Pt(Me2S)2Cl2). Data also for many
other organic substituents. Method: nmr
--------------------------------------------------------------------------------
```

```
Pt++       gl  KNO3   25°C  1.0M U    M                  1973SAa  (5537) 174
                                      K(PtA+L)=1.02
                                      K(PtHA+L)=1.5
                                      K(PtH2A+L)=2.14
                                      K(PtH3A+L)=4
H4A=EDTA. K(PtH2AL+H)=2.25, K(PtH2AL+H)=2.73, K(PtHAL+H)=3.43
-------------------------------------------------------------------------------
Pt++       gl  mixed    ?   70%  U                      1972GGb  (5538) 175
                                      K(Pt(PPh3)2H+L)=1.0
Medium: 70% w/w acetone/H2O, 0.1 M NH4ClO4. One acetone exchanged for Cl,
-------------------------------------------------------------------------------
Pt++       EMF KNO3     ?  0.10M U    M                  1971GKe  (5539) 176
                                      K(Pt(NH3)2A+L)=4.09(cis)
                                      K(Pt(NH3)2A+L)=4.01(trans)
                                      K(Pt(NH3)2AOH+H)=5.22(cis)
                                      K(Pt(NH3)2AOH+H)=3.85(trans)
A=DMSO
-------------------------------------------------------------------------------
Pt++       ISE KNO3   25°C 0.50M U                      1971KTf  (5540) 177
                                      K=4.22
K: Pt(DMSO)Cl+Cl=trans-Pt(DMSO)Cl2(H2O)2
-------------------------------------------------------------------------------
Pt++       ISE KNO3   20°C 0.01M U                      1971KTg  (5541) 178
                                      K(Pt(DMSO)2+L)=4.74
-------------------------------------------------------------------------------
Pt++       EMF KNO3   25°C 0.10M U                      1971KTi  (5542) 179
                                      K(Pt(DMSO)Cl2+Cl)=2.55
                                      K(Pt(C2H4)Cl2+Cl)=2.43
-------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M U TI M                  1971PMa  (5543) 180
                                      K(PtA+L)=3.71
Medium: LiClO4. K=3.68(35 C)(I=0.1); K=3.60(25 C), 3.61(35 C)(I=0.32)
A=diethylenetriamine
-------------------------------------------------------------------------------
Pt++       sp  KNO3   20°C  2.0M U                      1971STa  (5544) 181
                                      K4=1.89
-------------------------------------------------------------------------------
Pt++       sp  oth/un 20°C  var  U    M                  1971STa  (5545) 182
                                      K(PtNOCl4+Cl)=0.5
                                      K(Pt(NO(NH3)2Cl2+Cl)=1.5
Medium: H2SO4
-------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 0.50M U T      K1=5.0    B2=9.0    1970ELa  (5546) 183
                                      B3=11.8
                                      B4=13.8
Medium: HClO4. Ion exchange also used. At 60 C: K1=4.8, B2=8.6, B3=11.3,
B4=13.0. DH(B3)=-8 kJ mol-1, DH(B4)=-12
-------------------------------------------------------------------------------
Pt++       kin NaClO4 25°C 0.50M U T  M                  1970ELa  (5547) 184
                                      K2(cis)=3.7
```

K2(trans)=3.7
K3(cis)=3.1
K3(trans)=3.2
Medium: HClO4. K(trans-Pt(H2O)2L2=cis-Pt(H2O)2L2)=0.08. K2(cis): Pt(H2O)3L+ L=cis-Pt(H2O)2L2. Data also at 35 and 60 C

Pt++ EMF oth/un 25°C 3.0M U T H 1970KSa (5548) 185
K4=2.41
Medium: H2SO4. DH(K4)=-23.0 kJ mol-1. K4=2.38(35 C), 2.32(42 C), 2.18(50 C), 2.04(60 C). In 0.2 M H2SO4, 25 C: K4=2.20

Pt++ sp alc/w 25°C 100% U 1968MMc (5549) 186
K(Pt(C2H4)L2+L)=4.3
Medium:EtOH

Pt++ sp oth/un 0°C dil U T H 1968PAb (5550) 187
K(cis-Pt(NH3)2L+L)=2.39
K=2.42 (18 to 30 C)

Pt++ kin oth/un 30°C 0.0 U H 1968PMg (5551) 188
K(Pt(NH3)2L+L)=3.9
DH=-5.0 kJ mol-1, DS=58.5 J K-1 mol-1

Pt++ kin NaClO4 25°C 0.50M U T H K1=1.89 1967DEa (5552) 189
K4=2.00(15 C), 1.77(35 C). DH(K4)=-19 kJ mol-1, DS=-25 J K-1 mol-1

Pt++ oth NaClO4 60°C 0.50M U K1=1.51 1967ELb (5553) 190
Method:chemical analysis. Medium:HClO4

Pt++ ISE NaNO3 18°C 0.10M U M 1967GGf (5554) 191
K(cis-(NH2OCH3)2L+L)=4.20
K(trans-(NH2OCH3)2L+L)=3.05
K(cis-(NH2OH)2L+L)=3.44
K(trans-(NH2OH)2L+L)=2.92

Pt++ kin NaClO4 25°C 0.50M U 1966ELa (5555) 192
K4=1.89

Pt++ sp NaClO4 25°C 0.50M U 1966ELb (5556) 193
K3=2.96
K4=1.87
Medium:HClO4. By anion exchange:K3=3.0

Pt++ sp NaClO4 25°C 0.20M U 1966EMa (5557) 194
K(trans-PtA2(PEt3)H2O+L)=3.1
Medium:HClO4. A=piperidine

Pt++ ISE KNO3 18°C 1.0M U 1966GGc (5558) 195
K(cis-Pt(NH3)2L+L)=2.72
K(trans-Pt(NH3)2L+L)=3.29

```
                                        K(Pt(NH3)3+L)=3.5
-------------------------------------------------------------------------------
Pt++       ISE NaClO4 25°C 0.20M U    M                  1965ATb  (5559) 196
                                        K((C2H4)PtL2+L)=2.60
Medium:HClO4. Also values for 4 other olefins
-------------------------------------------------------------------------------
Pt++       gl  KCl    55°C 0.10M U T H                   1965NPa  (5560) 197
                                        K4=4.58
                                        K(PtCl3OH+H)=7.0
K4=5.98(25 C),5.44(35 C),4.92(45 C), DH(K4)=-22.4 kJ mol-1
K=7.44(25 C), 7.25(35 C), 7.15(45 C)
-------------------------------------------------------------------------------
Pt++       gl  oth/un 55°C  dil  U T H                   1965NPa  (5561) 198
                                        K3=3.13
                                        K(PtCl2(H2O)OH+H)=6.1
                                        K(PtCl2(OH)2+H)=8.1
K3=5.52(35 C),4.06(45 C). DH(K3)=-130 kJ mol-1.
-------------------------------------------------------------------------------
Pt++       con oth/un 20?°C  dil  U                       1964CZd  (5562) 199
                                        K(Pt(MeNH2)2NO2+L)=3.85
-------------------------------------------------------------------------------
Pt++       sp  oth/un 20°C .318M U T                      1964TCb  (5563) 200
                                        K(trans-Pt(NH3)L2+L)=1.89
                                        K(cis-Pt(NH3)L2+L)=2.96
Medium: Na2SO4. At 25 C: K(trans)=1.88, K(cis)=2.88
-------------------------------------------------------------------------------
Pt++       ISE oth/un 18°C  1.0M U    M                  1963GGb  (5564) 201
                                        B(cis-Pt(NH3)2L2)=29.5
                                        B(trans-Pt(NH3)2L2)=28.4
-------------------------------------------------------------------------------
Pt++       ISE oth/un 18°C  1.0M U    M                  1963GGc  (5565) 202
                                        B(Pt(NH3)2L2)=32.8
                                        B(Pt(NH3)L3)=24.1
                                        K(Pt(NH3)L2+L)=2.1
                                        B(Pt(NH3)3L)=32.8
-------------------------------------------------------------------------------
Pt++       oth oth/un 18°C 0.10M U                        1963GPa  (5566) 203
                                        K(cis-Pt(MeNH2)2L+L)=2.4
                                        K(trans-Pt(MeNH2)2L+L)=3.7
                                        K(cis-Pt(EtNH2)2L+L)=2.4
                                        K(Trans-Pt(EtNH2)2L+L)=3.5
-------------------------------------------------------------------------------
Pt++       oth NaClO4 25°C 0.32M U TIH                    1962AMd  (5567) 204
                                        K(Pt(NH3)3+L)=3.57
Method: chemical analysis. K=3.57(35 C). DH=0. I=0 corr.: K1=4.08
-------------------------------------------------------------------------------
Pt++       oth KNO3   18°C 0.10M U                        1962GSe  (5568) 205
                                        K(Pt(NO2)L2(H2O)+L)=1.80
                                        K(PtPyL2(H2O)+L)=2.15
Method: chemical analysis
```

Pt++ gl NaCl 25°C 1.0M U 1962PPb (5569) 206
+K1=10.5
+K2=10.0
+K3=9.5
+K4=8.7
+K1: Pt(OH)4+H+L=Pt(OH)3L+H2O; +K2: Pt(OH)3L+H+L=Pt(OH)2L2+H2O
+K3: Pt(OH)2L2+H+L=PtOHL3+H2O; K4: Pt(OH)L3+H+L=PtL4+H2O

Pt++ oth oth/un 25°C 0.32M U IHM 1961ADa (5570) 207
K(trans-Pt(NH3)2L+L)=3.49
Method: chemical analysis. DH=-23 kJ mol-1. At I=0 corr.: K=4.09

Pt++ oth oth/un 25°C 0.32M U T HM 1961MAh (5571) 208
K(cis-Pt(NH3)2+L)=3.4
K(PtL2+L)=3.3
K(PtL3+L)=1.82
K(cis-Pt(NH3)2L+L)=2.48
Method: chemical analysis, 0.32 M Na2SO4. K(trans-Pt(NH3)2+L)=3.66(15 C),
3.49(25 C), 3.36(35 C). K(trans-Pt(NH3)2L+L)=4.09(25 C), 3.96(35 C). DH=-25

Pt++ oth oth/un 25°C 0.32M U T 1961RMb (5572) 209
K(Pt(NH3)2+L)=3.4
K(Pt(NH3)2L+L)=2.48
Method: chemical analysis, medium: Na2SO4. At 35 C: 3.7, 2.41

Pt++ oth NaNO3 25°C 0.32M U 1961SMb (5573) 210
K3=3.27
K4=1.82
Method: chemical analysis. At I=0 corr.: K3=3.0, K4=1.52. By glass electrode
I=0.32 M NaNO3: K(PtL3OH+H)=7.0, K(PtL2(H2O)OH+H)=5.2, K(PtL2(OH)2+H)=8.3

Pt++ ISE NaNO3 18°C 1.0M U 1960GGb (5574) 211
B4=16.6

Pt++ oth KNO3 17°C 0.10M U 1960GSe (5575) 212
K4=1.72
K(Pt(NH3)L2+L)=2.1
K(cis-Pt(NH3)2L+L)=2.4
K(trans-Pt(NH3)2L+L)=3.1
Method: chemical analysis

Pt++ kin oth/un 25°C 0.32M U H 1958ERa (5576) 213
K(Pt(NH3)L2+L)=1.84
Also by chemical analysis, medium: Na2SO4. DH=-8.8 kJ mol-1.
27 C: K(Pt(NH3)L+L)=4.4

Pt++ gl NaClO4 25°C .318M U T H 1955GEa (5577) 214
K4=1.74
K(PtL3OH+H)=7.0

medium: LiClO4. K4=1.89(15 C), 1.68(30 C); DH(K4)=-21.3 J K-1 mol-1

Pt++ con oth/un 25°C dil U 1929CKa (5578) 215
K(Pt(NH3)2NO2+L)=3.77

Pt++ con none 25°C 0.0 U M 1929CKa (5579) 216
K(tr-Pt(NH3)2(NO2(H2O)+L)=3.77

****

ClO4- HL Perchlorate CAS 7001-90-3 (287)
Perchlorate;

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

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Pt++ cal oth/un 25°C 1.0M U HM 1973MKc (6357) 217
K(Pt(NH3)4+L)=0.45
K'(Pt(en)2+L)=0.48
Medium:NaF. DH(K)=-6.3 kJ mol-1, DS=-11.7 J K-1 mol-1. DH(K')=-5.4, DS=-8.7

****

FClBrI HL (541)
Halides, comparative (for book data under ligand 80)

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

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Pt++ kin NaNO3 50°C 0.04M U T 1968PEa (7421) 218
K(Pt(diars)2+Cl)=1.37
K(Pt(diars)2+Br)=2.60
K(Cl)=1.43(20 C),1.20(30 C). K(Br)=2.62(20 C), 2.57(30 C)

Pt++ sp NaClO4 25°C 0.10M U I 1968PSh (7422) 219
K(ABr2+I=ABrI+Br)=2.22
K(ABrI+I=AI2+Br)=1.63
A=trans-Pt(H2NOH)2. Also with Cl,I (3.37, 2.78); Cl,Br 1.29, 0.75)

Pt++ sol oth/un 25°C dil U M 1967GDd (7423) 220
Ks(A(s)=A)=-2.08
A=cis-Pt(NH3)2Cl2; Ks=-2.92(trans); -2.60(cis-Pt(NH3)2Br2; -3.48(trans);
-3.02(cis-Pt(NH3)2I2); -4.00(trans). Also 10, 50 C

Pt++ sp NaClO4 1.0M U M 1967SSm (7424) 221
K(ACl2+Br=AClBr+Cl)=1.29
K(AClBr+Br=ABr2+Cl)=0.75
A=Pt(H2NOH)2

Pt++ sp alc/w 23°C 100% U HM 1966DPa (7425) 222
K(Pt(diars2+Cl)=2.52
Medium:MeOH. K=3.83(Br), 5.68(I), 3.68(SCN), 1.60(N3), 1.30((NH2)2CS)
DH=0 kJ mol-1(Cl), -4.2(Br), -16(I), -9.4(SCN), 0(N3), -19.2(thiourea)

Pt++ oth NaClO4 25°C .318M U M 1959DMa (7426) 223
+K1=1.16

+K2=0.92
+K3=0.30
+K4=0.22
Method: chemical analysis. +K1: PtCl4+Br=PtCl3Br+Cl etc. PtCl3(H2O)+Cl=
PtCl4+H2O)=1.74, K(PtCi2Br(H2O)+Cl=PtCl3Br+H2O)=1.85

Pt++ gl oth/un 23°C 0.20M U M 1956CGa (7427) 224
K(C2H4PtCl2(H2O)+NH3)=7.8
K(C2H4PtCl2(H2O)+Cl)=2.5

Pt++ sp oth/un 25°C 0.04M U M 1955LCb (7428) 225
K(C2H4PtCl2OH+H)=5.0

Pt++ EMF NaClO4 25°C 0.20M U M 1955LCb (7429) 226
K(C2H4PtCl2(H2O)+SCN) > 4.6
K(C2H4PtCl2(H2O)+NH3)=7.5
K(C2H4PtCl2(H2O)+F) < 1
K(C2H4PtCl2(H2O)+Cl)=2.52
Method: Ag electrode. Medium: HClO4. Reactions: displacement of H2O
K(C2H4PtCl2(H2O)+Br=C2H4PtCl2Br+H2O)=3.04. K(C2H4PtCl2(H2O)+I)=4.60

****

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

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

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Pt++ sp alc/w 25°C 100% U 1994PMc (8335) 227
K(PtABr2+I=PtAIBr+Br)=1.99
K(PtAIBr+I=PtAI2+Br)=1.43
K(PtACl2+I=PtAICl+Cl)=2.78
K(PtAICl+I=PtAI2+Cl)=2.39
Medium: MeOH, 0.5 M LiClO4. K(PtAClBr+I=PtAIBr+Cl)=2.42; K(PtAClBr+I=
PtAICl+Br)=1.36. A=C6H5S.CH2.CH2.SC6H5.

Pt++ sp NaClO4 25°C 0.10M U 1994SRa (8336) 228
K(PtAB(H2O)+L=PtABL+H2O)=2.88
A: C6H4.CH2.N(CH3)2; B: NC5H4.SO3-.

Pt++ kin NaClO4 25°C 1.00M U K1=4.98 1986EOa (8337) 229

Pt++ sp none 23°C 0.0 U 1986WEa (8338) 230
K(Pt(bpy)2+L)=2.6
K(Pt(phen)2+L)=0.85

Pt++ nmr non-aq 33°C 100% U H 1973RBa (8339) 231
K(cis-trans-PtA2L2)=-0.53
Medium: CHCl3. A=dibenzoylsulfide. DH=-8.4 kJ mol-1. Method: nmr

---

Pt++ sp KNO3 25°C 1.0M U 1973SAa (8340) 232
K(PtA+L)=2.90

H4A=EDTA

Pt++ sp NaClO4 25°C 1.0M U I 1967CPa (8341) 233
K4=1.70
At I=0.001: K3=3.5

Pt++ gl oth/un 25°C var U 1967NPd (8342) 234
K(Pt(OH)4+H+L=Pt(OH)3L+H2O)=12
K(Pt(OH)3L+H+L=Pt(OH)2L2)=11.7
K(Pt(OH)2L2+H+L=Pt(OH)L3)=11
K(Pt(OH)L3+H+L=PtL4)=10

Pt++ ISE oth/un 18°C 1.0M U M 1963GGb (8343) 235
B(Pt(NH3)2I2)=33.2 (cis)
B(Pt(NH3)2I2)=32.7 (trans)

Pt++ ISE NaNO3 18°C 1.0M U B2=29.6 1960GGb (8344) 236
K(Pt+2e=Pt(s))=41.5(1200 mV)

****

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

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

---

Pt++ gl NaClO4 25°C 0.10M C 1996MAa (9199) 237
K(PtL2=Pt(OH)L2)=4.48
K(Pt(OH)L2=Pt(OH)2L2)=7.20
K(PtL2A=Pt(OH)L2A)=5.27
K(PtL2C=Pt(OH)L2C)=6.4
A=1-Methylinosine, C=Inosine. K(PtL2HA=Pt(OH)L2HA)=5.4,
K(Pt(OH)L2HA=Pt(OH)L2A)=7.4, K(Pt(OH)L2HA=PtL2A)=-1.7

Pt++ sp oth/un 23°C 0.03M U 1986WEa (9200) 238
K(Pt(bpy)2+L)=3.32
K(Pt(phen)2+L)=2.02
Medium: (NH4)2SO4

Pt++ gl mixed 25°C 70% U 1973GGf (9201) 239
K(Pt(C2H4)SCl2+L)=7.6
K(Pt(C2H4)SL2+L)=8.0
K(Pt(Ph3P)SL2+L)=7.55

Pt++ sp KNO3 25°C 1.0M U 1973SAa (9202) 240
K(Pt(EDTA)+L)=4.7

Pt++ gl mixed 25°C 70% U M 1972GGb (9203) 241
K(Pt(Ph3P)2H+L)=5.8
Medium: 70% Me2CO, 0.1 M NH4ClO4

Pt++ ISE KNO3 18°C 1.0M U 1961GGb (9204) 242

B4=35.3

****

NH3O L Hydroxylamine; CAS 5470-11-1 (1808)
Hydroxylamine; NH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	NaNO3	25°C	0.0	U			1966GSh (9273)	243
							K(PtH-1L4+H)=6.45		
							Kso(PtL4(OH)2)=-20.05		

Protonation constants for other (PtL) complexes

****

NO2- HL Nitrite CAS 7782-77-6 (635)
Nitrite;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	EMF	oth/un	25°C	var	U			1967GGe (9402)	244
							B4=19.6		

****

N3- HL Azide CAS 7782-79-8 (441)
Azide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaClO4	25°C	0.10M	U			1994SRa (10254)	245
							K(PtAB(H2O)+L=PtABL+H2O)=3.50		

A: C6H4.CH2.N(CH3)2; B: NC5H4.SO3-.

****

OH- HL Hydroxide (57)
Hydroxide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	NaClO4	25°C	0.10M	C			2001BPd (11985)	246
							*K(Pt(dien)(H2O))=-6.94.		

K(2Pt(dien)(H2O)=Pt2(dien)2(OH)2)=-9.37.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	nmr	mixed	25°C	0.00	U			1998BBd (11986)	247
							*K(trans-Pt(H2O)Cl(NH3)A)=-5.4		
							*K(cis-Pt(H2O)2(NH3)A)=-5.68		
							*K(cis-Pt(OH)(H2O)(NH3)A)=-7.7		
							*K(cis-Pt(H2O)Cl(NH3)A)=-6.73		

Method: 195Pt nmr, Medium: 10% D2O/H2O.
A: Cyclohexylamine

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	nmr	NaClO4	25°C	1.00M	U			1998MGa (11987)	248
							*K(Pt(H2O)(CN)5)=-2.51		

Method: 191Pt nmr

```
Pt++       gl  KNO3   25°C 0.15M C                      1997SSb (11988) 249
                                     *B2(Pt(en)(H2O)2)=-15.35
                                     *K(2Pt(en)=Pt2(en)2(OH))=-8.36
-------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M M                      1996MOa (11989) 250
                                     *K(PtCl(NH3)2(H2O))=-5.89
-------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 0.10M U                      1994SRa (11990) 251
                                     *K(PtAB(H2O))=-9.75
A: C6H4.CH2.N(CH3)2; B: NC5H4.SO3-.
-------------------------------------------------------------------------------
Pt++       sol oth/un 25°C  var  M       B2=29.9        1991WOa (11991) 252
-------------------------------------------------------------------------------
Pt++       gl  KNO3   35°C 0.05M C    M                 1987EGa (11992) 253
                                     K(Pt(DMSO)A+L)=4.36
HA=sarcosine. Data also for HA=glycine (K=4.18) and dimethyl glyoxime
(K=4.78)
-------------------------------------------------------------------------------
Pt++       sp  none   23°C  0.0  U                      1986WEa (11993) 254
                                     K(Pt(bpy)2+L)=4.11
                                     K(Pt(phen)2+L)=2.60
-------------------------------------------------------------------------------
Pt++       sol oth/un 25°C 1.00M U                      1974MKf (11994) 255
                                     K(Pt(en)2 + OH)=0.38
Medium: NaF
-------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 1.00M U                      1973SAa (11995) 256
                                     *K(PtA2+H2O=PtA2OH+H)=-9.08
H4A=EDTA
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.30M U    M                 1968GSi (11996) 257
                                     *K1(Pt(en)(H2NOH)2)=-7.68
                                     *K2(Pt(en)(H2NOH)2)=-10.7
Also *Kn values for Pt(II)-oxime complexes
-------------------------------------------------------------------------------
Pt++       gl  oth/un 25°C  dil  U    M                 1968PAb (11997) 258
                                     *K1(cis-Pt(NH3)2(H2O)2)=-5.63
                                     *K2(cis-Pt(NH3)2(H2O)2)=-9.25
                                     *K1(tr-Pt(NH3)2(H2O)2)=-4.23
                                     *K2(tr-Pt(NH3)2(H2O)2)=-7.30
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U    M                 1963GGa (11998) 259
                                     *K1(Pt(bpy)(H2O)2)=-4.7
                                     *K2(Pt(bpy)(H2O)2)=-5.7
                                     *K1(trans-Pt(py)2(H2O)2)=-5.2
                                     *K1(cis-Pt(py)2(H2O)2)=-4.1
*K2(trans-Pt(py)2(H2O)2)=-6.3, *K2(cis)=-6.4. Also data for Pt(NH3)py(H2O)2)
: *K1=-5.2, *K2=-6.85(trans); *K1=-4.1, *K2=-6.7(cis) plus others
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U                      1962GSf (11999) 260
```

```
                                        *K1=-8.66 (trans)
                                        *K2=-9.72 (trans)
                                        *K1=-6.92 (cis)
                                        *K2=-10.15 (cis)
metal is Pt(H2NOH)2py2++
-------------------------------------------------------------------------------
Pt++       gl  oth/un 20°C  dil  U                      1961GIa (12000) 261
                                        *K1=-3.35 (trans)
                                        *K2=-4.80 (trans)
                                        *K1=-3.80 (cis)
                                        *K2=-5.68 (cis)
metal is Pt(NH2C2H4OH)2(H2O)2++
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U                     1961GSc (12001) 262
                                        *K1=-7.5 (cis)
                                        *K2=-10.2 (cis)
                                        *K1=-8.84 (trans)
                                        *K2=-9.8 (trans)
metal is Pt(NH3)2(NH2OH)2++
-------------------------------------------------------------------------------
Pt++       gl  oth/un 25°C 0.32M U                     1961MAh (12002) 263
                                        *K1(Pt(NH3)2(H2O)Cl)=-6
medium: Na2SO4.
-------------------------------------------------------------------------------
Pt++       gl  oth/un  rt  0.32M U                     1958ERa (12003) 264
                                        *K1(Pt(NH3)2(H2O)Cl2)=ca.-7
medium:Na2SO4
-------------------------------------------------------------------------------
Pt++       oth oth/un   ?     ?  U                     1951GNa (12004) 265
                                        K(Pt(NH3)2(SCN)2+2OH)=6.55
                                        K(Pt(NH3)2Cl2+2OH)=10
                                        K(Pt(NH3)2Br2+2OH)=8.55
                                        K(Pt(NH3)2I2+2OH)=6.30
K(trans-Pt(NH3)2X2+2OH=trans-Pt(NH3)2(OH)2+2X)
-------------------------------------------------------------------------------
Pt++       gl  oth/un 14°C  dil  U T                   1939JEa (12005) 266
                                        *K1(Pt(NH3)2(H2O)2)=-4.4
                                        *K2=-7.20
Metal is trans-Pt(NH3)2(H2O)2. At 20 C: *K1=-4.32,*K2=-7.38. For cis-complex
*K1=-5.56, *K2=-7.32
*******************************************************************************
P2O5--               H2L                    CAS 83228-42-6  (5852)
Pyrophosphite;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       gl  none   25°C  0.0  C                      1987BDb (13407) 267
                                        K(Pt2(H2L)3HL+H)=2.24
                                        K(Pt2(H6L4)+H)=2.24
Data also for Pt2(H2L)4X2, X=Cl,Br,I
```

For Cl, pK1=2.55, pK2=4.72, pK3=6.72; Br, pK1=2.62, pK2=5.10, pK3=7.21

****

S-- H2L Sulfide CAS 7783-06-4 (705)

Sulfide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sol	oth/un	200°C	var	U	T	Ks(PtS+H2S)=-8.2 Ks(PtS+2H2S)=-11.3	1993GBa (14454)	268

Constants at I=0. 30-300 C

Pt++	oth	none	25°C	0	U		Kso(PtS)=-77.4 *Kso(PtS)=-60.1	1988LIa (14455)	269

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
Pt++	sol	oth/un	25°C	1.0M	U	M	K(Pten2+L)=0.55	1974MKf (15234)	270

Medium: NaF

Pt++	cal	oth/un	25°C	1.0M	U	H	K(Pt(NH3)4+L)=0.04	1973MKc (15235)	271

Medium: NaF. DH(K1)=-12.6 kJ mol-1,DS=-41.4 J K-1 mol-1.
For Pt(en)2, K1=0.2(calorimetry), 0.13(solubility). DH(K1)=-10.9,DS=-34

Pt++	sp	KNO3	25°C	1.0M	U	M	K(Pt(EDTA)+L)=4.64	1973SAa (15236)	272

****

SO3-- H2L Sulfite CAS 7782-99-2 (801)

Sulfite;

Pt++	sp	none	23°C	0.0	U		K(Pt(bpy)2+L)=6.0 K(Pt(phen)2+L)=4.74	1986WEa (15476)	273

****

SO4-- H2L Sulfate CAS 7664-93-9 (15)

Sulfate;

Pt++	cal	oth/un	25°C	1.0M	U	HM	K(Pt(NH3)4+L)=0.74	1974MKf (16487)	274

K(Pt(en)2+L)=0.69
Medium: NaF. DH(Pt(NH3)4+L)=0 kJ mol-1, DS=14.2 J K-1 mol-1;
DH(Pt(en)2+L)=ca.0, DS=13.0
****
S2O3-- H2L Thiosulfate CAS 73686-28-7 (177)
Thiosulfate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp none 23°C 0.0 U 1986WEa (16897) 275
K(Pt(bpy)2+L)=6.7
K(Pt(phen)2+L)=6.4
****
Se-- H2L Selenide (6335)
Selenide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ oth none 25°C 0.0 U 1964BUe (16948) 276
Kso=-81.4
****
CH4N2S L Thiourea CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H2N)2CS

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp none 23°C 0.0 U 1986WEa (17849) 277
K(Pt(bpy)2+L)=4.13
K(Pt(phen)2+L)=3.15
****
CH5N L Methylamine CAS 74-89-5 (155)
Methylamine; CH3.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp oth/un 23°C 0.03M U 1986WEa (18029) 278
K(Pt(bpy)2+L)=3.18
K(Pt(phen)2+L)=2.43
Medium: (NHMe3)2SO4

Pt++ EMF KNO3 18°C 1.0M U 1961GGa (18030) 279
B4=40.1
Method: platinum electrode

Pt++ gl oth/un 23°C 0.20M U M 1956CGa (18031) 280
K(C2H4PtCl3+L=trans-C2H4LPtCl2+Cl)=6.1
K(trans-C2H4H2OPtCl2+L=trans-C2H4LPtCl2+H2O)=8.6
****
CH5NO L CAS 593-56-6 (4208)
O-Methylhydroxylamine; H2N.O.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	ISE	NaNO3	18°C	0.10M	U		B4=26.8	1968SGe (18039)	281

****

CH6NO3P H2L AMPA CAS 1066-51-3 (1981)
Aminomethylphosphonic acid; H2N.CH2.PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	KNO3	25°C	0.10M	C		B2=21.62 B(PdHLCl2)=22.99 B(PdLCl2)=19.45 B(PdH-2L)=-0.08	1997BLc (18230)	282

When [Pt]=0.15 M, [L]=0.3 M: B2=24.06, B(PtH-2L2)=2.87, B(PtHLCl2)=23.70, B(PtLCl2)=20.11, B(PtH-2L)=2.19.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	KCl	25°C	0.10M	U		K(Pt+L+2Cl+H)=22.67 K(Pt+2L)=22.28 K(Pt+L+2Cl)=19.55	1996BRa (18231)	283

****

C2H2O2S2 H2L Dithiooaxlic ac CAS 77148-96-8 (4216)
Dithioethanedioic acid; HS.CO.CO.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	?	0.25M	U	M	K(PtCl4+2L=PtL2+4Cl)=22.43	1968PMd (18407)	284

****

C2H3N3S L CAS 3179-31-5 (4221)
1,2,4-Triazoline-3-thione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	oth/un	?	0.32M	U		B4=25.9	1971RCc (19245)	285

****

C2H4 L Ethylene CAS 74-85-1 (478)
Ethene; H2C:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	KNO3	?	0.10M	U	M	K(Pt(NH3)3L+H2O=Pt(NH3)2LH2O+NH3)=8.67	1972GKe (19430)	286

****

C2H5NO L Acetaldoxime CAS 107-29-9 (4224)
Acetaldoxime; CH3.CH:N.OH

```
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       ISE NaNO3  28°C 0.10M U    M                  1968SGe (20671) 287
                                          K(PtCl2+4L)=25.0
*************************************************************************
C2H5NO                  L    Acetamide        CAS 60-35-5  (2886)
Ethanoic acid amide; CH3.CO.NH2
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       nmr non-aq 25°C 100%  U    M                  1992WFa (20674) 288
                                          K(PtA+L=PtAL)=7
Medium: acetone. A is Diethylenetriamine.
*************************************************************************
C2H5NO2                HL    Glycine          CAS 56-40-6  (85)
2-Aminoethanoic acid; H2N.CH2.COOH
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       gl  oth/un 35°C    ?  U    M                  1989EBa (21696) 289
                                          *K(PtL(DMSO)(H2O))=-4.14
-------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M U                       1982KBa (21697) 290
                                          K(PtL(en)+H)=3.18
*************************************************************************
C2H6OS                  L    DMSO             CAS 67-68-5  (329)
Dimethylsulfoxide; (CH3)2.SO
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M U    M                  1972GKe (22120) 291
K(Pt(NH3)3L+H20=Pt(NH3)2LH2O+NH3)=8.18
*************************************************************************
C2H6S                   L                     CAS 75-18-3  (151)
Dimethyl sulfide; CH3.S.CH3
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       nmr non-aq 30°C 100%  U   H                  1998SEa (22193) 292
                                          K(Pt2Me4L2+2L=2PtMe2L2)=3.41
Medium: dichloromethane-d2. DH=-60 kJ mol-1, DS=-120 J K-1 mol-1.
Reactant dimer has bridging SR2 groups. The product is the cis isomer.
-------------------------------------------------------------------------
Pt++       nmr non-aq 29°C 100%  U   HM                 1973RBa (22194) 293
                                          K(cis-PtL2Cl2=trans form)=0.81
Medium: CHCl3. DH=7.9 kJ mol-1, DS=41 J K-1 mol-1.
In CH2Cl2, K=0.28, DH=9.6, DS=38
*************************************************************************
C2H6Se                  L    DiMeSelenide     CAS 81369-92-3  (911)
Dimethylselenide; CH3.Se.CH3
```

```
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       nmr non-aq 40°C 100%  U T  M                  1973RBa (22206) 294
                                        K(cis-PttCl2L2=trams form)>1.3
Medium: CHCl3. At 3 C, in CHCl3+30% C6H5NO2: K=0.60
*******************************************************************************
C2H7N                   L    Dimethylamine    CAS 124-40-3  (802)
Dimethylamine; CH3.NH.CH3
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  oth/un 23°C 0.03M U                       1986WEa (22228) 295
                                        K(Pt(bpy)2+L)=3.02
                                        K(Pt(phen)2+L)=1.60
Medium: (NHMe3)2SO4
-------------------------------------------------------------------------------
Pt++       gl  oth/un 23°C 0.20M U                       1956CGa (22229) 296
                                        K5=5.5
                                        K6=8.0
*******************************************************************************
C2H7N                   L    Ethylamine       CAS 75-04-7  (156)
Ethylamine;  CH3.CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       EMF KNO3   18°C  1.0M U                       1961GGa (22278) 297
                                        B4=37.0
Method: platinum electrode
*******************************************************************************
C2H8N2                  L    Ethylenediamine  CAS 107-15-7  (23)
1,2-Diaminoethane; H2N.CH2.CH2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  oth/un 23°C 0.03M U                       1986WEa (23225) 298
                                        K(Pt(phen)2+L)=0.88
Medium: (enH)2SO4
-------------------------------------------------------------------------------
Pt++       EMF KNO3   18°C  1.0M U        B2=36.5        1961GGa (23226) 299
Method: platinum electrode
*******************************************************************************
C3H6                    L    Propylene        CAS 115-07-1  (702)
Propene; CH3.CH:CH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                      1986KUa (24756) 300
                                        K(PtA+L=PtL+A)=1.5
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
```

****
C3H6O HL Allyl alcohol CAS 107-18-6 (62)
Prop-2-en-1-ol; CH2:CH.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl oth/un ? ? U M 1972GIb (24848) 301
K(Pt(NH3)2L(OH)+H)=3.5

Pt++ sp NaCl 60°C 2.0M U T HM 1967HVa (24849) 302
K(PtCl4+L=PtCl3L+Cl)=3.59
K=4.11(30C), 3.86(44.5 C). DH=-33.9 kJ mol-1, DS=-31.8 J K-1 mol-1
****
C3H6O3S HL Allylsulfonic CAS 1606-80-0 (3551)
Prop-2-enesulfonic acid; CH2:CH.CH2.SO3H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 25°C 2.0M U T HM 1968MVa (25613) 303
K(PtCl4+L=PtCl3L+Cl)=3.61
K=3.46(35 C), 3.33(45 C), 3.19(55.6 C). DH=-25.5 kJ mol-1,DS=-17.1 J K-1 m-1
****
C3H7N L Allylamine CAS 107-11-9 (2973)
Allylamine; H2C:CH.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 59°C 2.0M U T HM 1967DHb (25637) 304
K(PtCl4+HL=PtCl3HL+Cl)=3.01
K=3.45(30.2 C), 3.24(44 C). DH=-29.7 kJ mol-1, DS=-31.8 J K-1 mol-1

Pt++ sp oth/un 24°C 2.0M U 1967DHc (25638) 305
K(PtBr4+HL=PtBr3HL+Br)=2.49
Medium: KBr
****
C3H7NO HL CAS 127-06-0 (7906)
Acetoxime;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp non-aq 40°C 100% C M 2001KKa (25642) 306
K(cis-Pt(en)(S)2+L)=1.54
K(cis-Pt(en)L(S)+L)=0.48
Medium: acetone (S). Additional methods: 1H and 13C nmr.
****
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
---

Pt++ gl oth/un 35°C ? U M 1989EBa (26607) 307
*K(PtL(DMSO)(H2O))=-4.07
****
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
---
Pt++ sp oth/un 25°C 1.00M U K1=3.46 1978OSb (27798) 308
****
C3H9N L Trimethylamine CAS 75-50-3 (803)
Trimethylamine; (CH3)3.N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp oth/un 23°C 0.60M U 1986WEa (27861) 309
K(Pt(bpy)2+L)=0.020
K(Pt(phen)2+L)=-0.32
Medium: (NHMe3)2SO4

Pt++ gl oth/un 23°C 0.20M U 1956CGa (27862) 310
K5=3.0
K6=5.5
****
C3H9N2O4P H2L CAS 30211-73-5 (7117)
Glycylaminomethylphosphonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl KCl 25°C 0.10M U 1996BRa (27970) 311
K(Pt+L+2Cl+H)=23.14
****
C3H9P L CAS 594-09-2 (1732)
Trimethyl phosphine; (CH3)3P

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl NaNO3 25°C 1.00M C 2001HTa (28055) 312
K(2PtL2=L2Pt(OH)2PtL2)=-4.19
****
C4H3N2O2F HL 5-Fluorouracil CAS 51-21-8 (4277)
5-Fluoro-2,4(1H,3H)-pyrimidinedione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ ISE KNO3 25°C 0.10M U M 1970GKd (28695) 313
B(Pt(NH3)2L2)=32.0(cis)
****
C4H4N2O2 HL Uracil CAS 66-22-8 (412)
2,4-Dihydroxypyrimidone, 2,4-Pyrimidinedione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl NaNO3 25°C 0.10M U M 1989MPa (28868) 314
K(Pt(NH3)2+L)=6.27
K(Pt(NH3)2+2L)=10.96
****
C4H5N3O HL Cytosine CAS 71-30-7 (1096)
2-Oxy-6-aminopyrimidine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl NaNO3 25°C 0.10M U M 1989MPa (29415) 315
K(Pt(NH3)2+L)=7.93
K(Pt(NH3)2+2L)=13.89
****
C4H6O2 L Me methacrylate CAS 96-33-3 (815)
Methyl propenoate; CH2:CH.CO2.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq -15°C 100% U 1986KUa (29730) 316
K(PtA+L+PtL+A)=-3
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3

Pt++ sp alc/w 25°C 100% U 1974CWa (29731) 317
K'=-1.09
K"=1.95
K'=(HPt(PEt3)2NO3+L=HPt(PEt3)2L+NO3)
K"=(HPt(PEt3)2(MeOH)+L=HPt(PEt3)2L+MeOH)
****
C4H6O4S H3L Thiomalic acid CAS 70-49-5 (109)
2-Mercaptosuccinic acid, 2-Sulfanyl-1,4-butanedioic acid; HOOC.CH(SH).CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl KCl 25°C 0.10M C 2000CCa (30359) 318
B(Pt2L4)=55.0
B(Pt2HL4)=64.6
B(Pt2H2L4)=72.3
B(Pt2H3L4)=78.5
B(Pt2H4L4)=84.0, B(Pt2H5L4)=88.6, B(Pt2H6L4)=92.9.
****
C4H6O4S2 H4L CAS 304-55-2 (3002)
meso-2,3-Dimercaptobutanedioic acid (meso-dithiotartaric acid)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl KCl 25°C 0.10M C 2000CCa (30433) 319
B(Pt2HL4)=56.1

B(Pt2H3L4)=77.0
B(Pt2H4L4)=85.6
B(Pt2H5L4)=92.2
B(Pt2H6L4)=97.6, B(Pt2H7L4)=102.2, B(Pt2HL3)=49.6, B(Pt2H2L3)=59.1,
B(Pt2H3L3)=66.4.
****
C4H7NO4 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
---
Pt++ gl none 25°C 0.0 U 1979FWa (31934) 320
K(PtL2+H)=4.14
K(PtHL2+H)=3.68
K(PtCl4+2HL=PtH2L2+4Cl)=13.8
****
C4H8 L CAS 590-18-1 (804)
cis-But-2-ene; CH3.CH:CH.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq -15°C 100% U 1986KUa (32462) 321
K(PtA+L=PtL+A)=0.75
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
****
C4H8 L CAS 624-64-6 (805)
trans-But-2-ene; CH3.CH:C(CH3)H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq -15°C 100% U 1986KUa (32464) 322
K(PtA+L=PtL+A)=0.46
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
****
C4H8O L Crotyl alcohol CAS 6117-91-5 (2993)
But-2-en-1-ol; CH3.CH:CH.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 60°C 2.0M U M 1967HVa (33184) 323
K(PtCl4+L=PtCl3L+Cl)=3.48
****
C4H9N L CAS 2878-14-0 (3571)
3-Amino-2-methylprop-1-ene; CH2:C(CH3)CH2NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 60°C 2.0M U M 1967DHb (33746) 324
K(PtCl4+HL=PtCl3HL+Cl)=0.51
****

C4H9N L CAS 34375-90-1 (3568)
3-Aminobut-1-ene; CH2:CH.CH(NH2)CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	60°C	2.0M	U	T HM	K(PtCl4+HL=PtCl3HL+Cl)=2.91	1967DHb (33747)	325

K=3.34(30 C), 3.11(45.3 C). DH=-28.0 kJ mol-1, DS=-29 J K-1 mol-1

****

C4H9N L CAS 2524-49-4 (3569)
4-Aminobut-1-ene; CH2:CH.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	60°C	2.0M	U	T HM	K(PtCl4+HL=PtCl3HL+Cl)=3.31	1967DHb (33748)	326

K=3.64(30 C), 3.48(44.5 C). DH=-21.3 kJ mol-1, DS=-0.8 J K-1 mol-1

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	oth/un	25°C	2.0M	U	M	K(PtBr4+HL=PtBr3HL+Br)=3.08	1967DHc (33749)	327

Medium: KBr

****

C4H9N L CAS 56930-04-2 (3570)
trans-4-Aminobut-2-ene; CH3.CH:CH.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	30°C	2.0M	U	T HM	K(PtCl4+HL=PtCl3HL+Cl)=2.65	1967DHb (33757)	328

K=2.48(44.5 C), 2.32(60.2 C). DH=-21.3 kJ mol-1, DS=-19 J K-1 mol-1

****

C4H9NO L Morpholine CAS 110-91-8 (318)
Perhydro-1,4-oxazine, Tetrahydro-1,4-oxazine; C4H8NO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	EMF	KNO3	25°C	1.00M	U	M	B4=38.4	1973KYb (33793)	329

B(Pt(NH3)2L2)=36.3(cis), 37.0(trans). B(Pt(py)2L2)=35.0 (cis)

****

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
Pt++	gl	oth/un	35°C	?	U	M	*K(PtL(DMSO)(H2O))=-3.82	1989EBa (34032)	330

****

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
-------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C                          2004BSb (34105) 331
                                        *K(PtL)=-3.49
                                        K(PtL=PtL(OH)2+2H)=-12.29
                                        K(2PtL=Pt2L2(OH)+H)=-0.06
*******************************************************************************
C4H10S                  L                    CAS 352-93-2  (4259)
Diethyl sulfide; C2H5.S.C2H5
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       nmr non-aq 30°C 100%  U   H                    1998SEa (34721) 332
                                        K(Pt2Me4L2+2L=2PtMe2L2)=1.70
Medium: dichloromethane-d2. DH=-40 kJ mol-1, DS=-90 J K-1 mol-1.
Reactant dimer has bridging SR2 groups. The product is the cis isomer.
*******************************************************************************
C4H13N3                 L    Dien            CAS 111-40-0  (584)
1,4,7-Triazaheptane, 2,2'Iminobis(ethylamine), diethylenetriamine;
NH2.(CH2)2.NH.(CH2)2.NH2
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       nmr NaClO4 25°C 0.10M M                          1997GCb (35811) 333
                                        *K(Pt(H2O)L)=-6.0
Medium: 10% (v/v) D2O/H2O
-------------------------------------------------------------------------------
Pt++       gl  oth/un 35°C 0.18M U                          1987EEa (35812) 334
                                        *K(PtL(H2O))=-5.87
Self medium. K(PtL(OH)+PtL(H2O)=LPt(OH)PtL+H2O)=2.03.
*******************************************************************************
C5H4N2O4             H2L    Orotic acid      CAS 65-86-1  (624)
1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U    M                   1987MPa (36119) 335
                                        K(cis-Pt(NH3)2+L)=6.61
                                        K(cis-Pt(NH3)2+2L)=11.59
                                        K(cis-Pt(NH3)2+L2)=11.8
L2=orotic acid dimer
*******************************************************************************
C5H5N                   L    Pyridine         CAS 110-86-1  (31)
Pyridine, Azine;
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  non-aq 25°C 100%  C                          1997WEa (36669) 336
                                        K(trans-PtI3A+L)=0.38
```

Medium: acetonitrile. A: triphenylstibine.

Pt++ kin alc/w 25°C 100% U I 1994BCc (36670) 337
K(PtACl2+L=PtALCl+Cl)=1.37
A: PhS.CH2.CH2.SPh. Medium: methanol, 0.1 M Bu4NClO4, 0.01M HClO4. Also data for L=4-CN- (K=-0.54), 4-Me- (K=1.83), 2-Me- (K=0.91) and 2,4-DiMe-py (1.43)

Pt++ kin alc/w 25°C 100% U 1994PMd (36671) 338
K(PtACl+L=PtAL+Cl)=-0.57
Medium: 100% MeOH, 0.01 M NBu4ClO4. A: 2,6-bis(methylsulfanylmethyl)pyridine Also data for L=4-CN-py, 4-Cl-py, 4-Me-py, 4-NH2-py, 2-Me-py, 4-CH3CO-py
---
Pt++ EMF KNO3 25°C 1.00M U M 1973KYb (36672) 339
B4=31.8
B(Pt(NH3)2L2)=36.0,cis & trans
B(Pt(NH3)3L)=34.2
B(Pt(NH3)L3)=32.6
****
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
---
Pt++ gl NaNO3 25°C 0.10M U M 1989MPa (37286) 340
K(Pt(NH3)2+L)=6.73
K(Pt(NH3)2+2L)=11.93

Pt++ gl NaNO3 37°C 0.10M U M 1987MPa (37287) 341
B(PtL(NH3)2)=5.52
B(PtL2(NH3)2)=9.71
****
C5H8O4S2 H3L CAS 73618-85-6 (7720)
meso-2,3-Dimercaptobutanedioc acid monomethyl ester;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl KCl 25°C 0.10M C 2000CCa (38402) 342
B(PtH2L2)=41.1
B(PtH3L2)=46.9
B(Pt2HL3)=58.3
B(Pt2H3L3)=70.0
B(Pt2H4L3)=73.3.
****
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
---
Pt++ gl none 25°C 0.0 U 1979FWa (39123) 343
K(PtL2+H)=5.03

K(PtHL2+H)=4.39
K(PtCl4+2HL=PtH2L2+4Cl)=13.0
****
C5H10O HL CAS 821-09-0 (64)
Pent-4-en-1-ol; CH2:CH.CH2.CH2.CH2.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 60°C 2.0M U M 1967HVa (40146) 344
K(PtCl4+L=PtCl3L+Cl)=3.40
****
C5H11N L CAS 13822-06-5 (3608)
1-Amino-3-methylbut-2-ene; H2N.CH2.CH:C(CH3).CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 60°C 2.0M U M 1967DHb (40383) 345
K(PtCl4+HL=PtCl3HL+Cl)=0.41
****
C5H11N L CAS 22537-07-1 (3609)
5-Aminopent-1-ene; CH2:CH.CH2.CH2.CH2.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 60°C 2.0M U M 1967HVa (40384) 346
K(PtCl4+HL=PtCl3HL+Cl)=3.04
****
C5H11N L CAS 2424-62-4 (3610)
N-Ethyl-3-aminoprop-1-ene; CH3.CH2.NH.CH2.CH:CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 59°C 2.0M U T HM 1967DHb (40395) 347
K(PtCl4+HL=PtCl3HL+Cl)=2.91
K=3.37(24 C),3.09(44 C). DH=-24.7 kJ mol-1, DS=-18 J K-1 mol-1

Pt++ sp oth/un 35°C 2.0M U T HM 1967DHc (40396) 348
K(PtBr4+HL=PtBr3HL+Br)=2.26
Medium: KBr. K=2.70(0 C),2.38(25 C). DH=-20.1 kJ mol-1, DS=-22 J K-1 mol-1
****
C5H11N L Piperidine CAS 110-89-4 (105)
Perhydropyridine; cyclo(-CH2.CH2.CH2.NH.CH2.CH2-) C5H11N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp oth/un 23°C 0.03M U 1986WEa (40454) 349
K(Pt(bpy)2+L)=3.65
K(Pt(phen)2+L)=1.63
Medium: (pipH)2SO4

```
Pt++       EMF KNO3   25°C 1.00M U    M                  1973KYb (40455) 350
                                        B(Pt(NH3)2L)=36.0
                                        B(Pt(NH3)2L2)=36.8(trans)
                                        B(Pt(NH3)2L2)=36.7(cis)
                                        B(Pt(NH3)L3)=37.4
B(PtL4)=37.9
-------------------------------------------------------------------------------
Pt++       gl  oth/un 23°C 0.20M U                       1956CGa (40456) 351
                                        K5=5.7
                                        K6=8.2
*******************************************************************************
C5H11NO2               HL    Valine           CAS 72-18-4  (43)
2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2)COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U    M                  1989MPa (40750) 352
                                        K(Pt(NH3)2+L)=6.61
                                        K(Pt(NH3)2+2L)=11.24
*******************************************************************************
C5H11NO2S             H2L    Penicillamine    CAS 52-66-4  (350)
DL-2-Amino-3-mercapto-3-methylbutanoic acid; (CH3)2C(SH)CH(NH2)COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       kin NaClO4 30°C 0.10M C T                     2001SSc (41279) 353
                                        Kout(Pt(en)(H2O)2+L)=2.25
Ligand is DL-penicillamine. Data for 35-50 C.
*******************************************************************************
C6H5NO2                HL    Nicotinic acid   CAS 59-67-6  (419)
3-Pyridine-carboxylic acid; C5H4N.COOH
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M U        K1=11.26  B2=20.50  1988ZMa (42684) 354
*******************************************************************************
C6H7N                   L    Picoline         CAS 109-06-8  (320)
2-Methylpyridine; C5H4N.CH3
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  non-aq 25°C 100%  C                       1997WEa (44614) 355
                                        K(trans-PtI3A+L)=0.65
Medium: acetonitrile.  A: triphenylstibine.
*******************************************************************************
C6H7N                   L    gamma-Picoline   CAS 108-89-4  (325)
4-Methylpyridine; C5H4N.CH3
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
```

```
Pt++       sp  non-aq 25°C 100%  C                        1997WEa (44832) 356
                                      K(trans-PtI3A+L)=0.86
Medium: acetonitrile.  A: triphenylstibine.
**************************************************************************
C6H7N                    L    Aniline          CAS 62-53-3  (583)
Aminobenzene, aniline; C6H5.NH2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       kin alc/w  25°C 100%  U                        1994PMd (44878) 357
                                      K(PtACl+L=PtAL+Cl)=-1.57
Medium: 100% MeOH, 0.01 M NBu4ClO4. A: 2,6-bis(methylsulfanylmethyl)pyridine
Also data for L=morpholine (K=0.27) and piperidine (K=1.79).
**************************************************************************
C6H8O6S               H3L                      CAS 99-68-3  (3692)
(Carboxymethylthio)butanedioic acid; HOOC.CH(S.CH2.COOH).CH2.COOH
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       gl  KNO3   20°C 0.10M U        K1=4.58        1977CAd (45712) 358
**************************************************************************
C6H10O4S2             H2L                      CAS 27887-85-0  (7721)
meso-Dimercaptobutanedioc acid dimethyl ester;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       gl  KCl    25°C 0.10M C                        2000CCa (48275) 359
                                      B(PtH2L4)=51.9
                                      B(PtH3L4)=60.8
                                      B(PtH4L4)=67.4
                                      B(Pt2L3)=41.4
B(Pt2HL3)=50.1, B(Pt2H2L3)=53.5.
**************************************************************************
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
--------------------------------------------------------------------------
Pt++       sp  none   25°C  0.0  U        K1=9.45   B2=19.87  1974HFa (48505) 360
**************************************************************************
C6H11NO4              H2L    Aminoadipic       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
--------------------------------------------------------------------------
Pt++       gl  none   25°C  0.0  U                        1979FWa (48584) 361
                                      K(PtL2+H)=5.01
                                      K(PtHL2+H)=4.53
                                      K(PtCl4+2HL=PtH2L2+4Cl)=13.0
**************************************************************************
```

C6H13N L MePiperidine CAS 626-67-5 (1254)
N-Methylpiperidine; C5H10N.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	oth/un	23°C	0.20M	U			1956CGa (49810)	362
							K5=4.3		
							K6=6.8		

****
C6H14N+ (3665)
N,N,N-Allyltrimethylammonium cation
L+

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	60°C	2.0M	U	T HM		1967DHb (50627)	363
							K(PtCl4+L=PtCl3L+Cl)=2.07		

K=2.40(30 C),2.24(44.5 C); DH=-22.2 kJ mol-1, DS=-27.6 J K-1 mol-1
****
C6H14S L Isopropyl sulfi CAS 625-80-9 (5674)
2,2'-Thiodipropane, diisopropyl sulfide; (CH3)2CH-S-CH(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	nmr	non-aq	30°C	100%	U	H		1998SEa (51140)	364
							K(Pt2Me4L2+2L=2PtMe2L2)=2.11		

Medium: dichloromethane-d2. DH=-40 kJ mol-1, DS=-100 J K-1 mol-1.
Reactant dimer has bridging SR2 groups. The product is the cis isomer.
****
C6H15P L CAS 554-70-1 (166)
Triethylphosphine; (C2H5)3P

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	NaNO3	25°C	1.00M	C			2001HTa (51548)	365
							K(2PtL2=L2Pt(OH)2PtL2)=-3.58		

****
C7H8S L Thioanisole CAS 100-68-5 (4414)
Methylphenylsulfide; C6H5.S.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	nmr	non-aq	28°C	100%	U	HM		1973RBa (56178)	366
							K(PtL2Cl2, cis to tran)=0.40		

Medium: CHCl3. DH=15.1 kJ mol-1, DS=59 J K-1 mol-1
****
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

```
--------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M M                        1999SSb (56519) 367
                                        *K(cis-Pt(NH3)2(HL)2)=-8.01
                                        *K(cis-Pt(NH3)2(HL)L)=-8.66
                                        *K(trans-Pt(NH3)2(HL)2)=-7.90
                                        *K(trans-Pt(NH3)2(HL)L)=-8.54
*K(cis-Pt(CH3NH2)2(HL)2)=-7.92, *K(cis-Pt(CH3NH2)2(HL)L)=-8.58
*K(trans-Pt(CH3NH2)2(HL)2)=-7.99, *K(trans-Pt(CH3NH2)2(HL)L)=-8.77
********************************************************************************
C7H13N                  L                       CAS 131344-42-3  (3733)
N-Allylpyrrolidine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  NaCl   60°C  2.0M U                        1967DHb (57424) 368
                                       K(PtCl4+HL=PtCl3HL+Cl)=2.81
********************************************************************************
C7H13NO2               HL                       CAS 3235-67-4  (3772)
Piperidine-N-ethanoic acid; C5H10N-CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  none   25°C  0.0  U        K1=8.462  B2=17.43  1974HFa (57457) 369
********************************************************************************
C7H13NO4              H2L    Aminopimelic     CAS 627-76-9  (1260)
2-Amino-heptanedioic acid; HOOC.(CH2)4.CH(NH2).COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  KCl    25°C 0.10M U                        1979FWa (57502) 370
                                       K(Pt(HL)2=Pt(HL)L+H)=4.75
                                       K(Pt(HL)L=PtL2+H)=5.33
                                       K(PtCl4+2HL=Pt(HL)2+4Cl)=13.9
********************************************************************************
C7H14N2O3S             HL    Met-Gly          CAS 14486-03-4  (727)
Methionyl-glycine; H2N.CH(CH2.CH2.S.CH3).CO.NH.CH2.COOH
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.15M C    M                   1997SSb (57812) 371
                                       K(Pt(en)+L)=8.29
                                       K(Pt(en)+L=Pt(en)H-1L)=-0.38
                                       K(Pt(en)+H+L=Pt(en)HL)=11.25
                                       K(2Pt(en)+L=Pt2(en)2H-1L)=5.74
K(2Pt(en)+L=Pt2(en)2H-2L+2H)=-2.22
********************************************************************************
C7H15N                  L                       CAS 4744-04-1  (3742)
N,N-Diethyl-3-aminopropene  (N-allyldiethylamine); (C2H5)2N.CH2.CH:CH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Pt++       sp  NaCl   59°C  2.0M U T H                  1967DHb (57902) 372
                                        K(PtCl4+HL=PtCl3HL+Cl)=2.59
K=2.93(30 C),2.74(45.3 C). DH=-23.4 kJ mol-1, DS=-20.9 J K-1 mol-1
--------------------------------------------------------------------------------
Pt++       sp  oth/un 25°C  2.0M U                      1967DHc (57903) 373
                                        K(PtBr4+HL=PtBr3HL+Br)=2.10
Medium: KBr
********************************************************************************
C7H17N2O4PS          H2L                    CAS 82611-22-1  (7392)
Methionyl-1-aminoethylphosphonic acid;                          H2L
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M C        B2=23.14       1997LBa (58204) 374
                                        B(PtHLCl2)=25.72
                                        B(PtLCl)=18.81
                                        B(PtH-1L)=9.79
                                        B(PtH-2L)=1.41
Data are for (S,S)-isomer. B(PtH2L2)=36.68, B(PtHL2)=30.47, B(PtH-1L2)=14.58
B(PtH-2L2)=4.78.  Data also for (R,S)-isomer.
--------------------------------------------------------------------------------
Pt++       gl  KCl    25°C 0.10M U                    1996BRa (58205) 375
                                        K(Pt+2L+2H)=37.27
                                        K(Pt+2L)=23.70
                                        K(Pt+2L+H)=30.99
H2L: S,S-diastereoisomer
--------------------------------------------------------------------------------
Pt++       gl  KCl    25°C 0.10M U                    1996BRa (58206) 376
                                        K(Pt+2L+2H)=36.56
                                        K(Pt+2L)=22.92
                                        K(Pt+2L+H)=30.16
H2L: S,R-diastereoisomer
********************************************************************************
C8H7Cl                  L    2-Chlorostyrene  CAS 2059-87-4  (814)
2-Chlorophenyl-ethene; Cl.C6H4.CH:CH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                    1986KUa (59085) 377
                                        K(PtA+L=PtL+A)=-0.64
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
********************************************************************************
C8H7Cl                  L    4-Chlorostyrene  CAS 1073-67-2  (812)
4-Chlorophenyl-ethene; Cl.C6H4.CH:CH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                    1986KUa (59086) 378
                                        K(PtA+L=PtL+A)=-0.60
```

Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
****
C8H7NO2 L 4-Nitrostyrene CAS 5153-67-3 (813)
4-Nitrophenyl-ethene; O2N.C6H4.CH:CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq -15°C 100% U 1986KUa (59094) 379
K(PtA+L=PtL+A)=-1.3
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
****
C8H8 L Vinylbenzene CAS 100-42-5 (811)
Styrene; C6H5.CH:CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq -15°C 100% U 1986KUa (59254) 380
K(PtA+L=PtL+A)=-0.49
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
****
C8H10S L CAS 760-92-1 (4479)
Methylthiomethylbenzene; C6H5.CH2.S.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ nmr non-aq 20°C 100% U HM 1973RBa (60932) 381
K(PtL2Cl2, cis to trans)=0.12
Medium: CHCl3. DH=14.2 kJ mol-1, DS=50 J K-1 mol-1
In CH2Cl2, K=-0.41. DH=13.4, DS=38
****
C8H12N5O4P H2L CAS 106941-25-7 (6693)
9-(2-(Phosphonylmethoxy)ethyl)adenine; H2O3P.CH2.O.CH2.CH2.adenine
---
Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl NaNO3 25°C 0.10M M 2001KLa (61654) 382
K(Pt(dien)L+H)=6.69
K(Pt(dien)HL+H)=1.4
K'(Pt(dien)H2L+H)=0.52
K' by spectrophotometry. K(Pt(dien)H2L+Mg)=1.54, K(Pt(dien)H2L+Zn)=2.29,
K(Pt(dien)H2L+Ca)=1.29, K(Pt(dien)H2L+Ni)=1.89, K(Pt(dien)H2L+Cu)=3.33
****
C8H14O5S2 H2L CAS 4408-66-6 (8332)
Oxybis(ethylenethio)diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl KNO3 20°C 0.10M U K1=3.80 1977CAc (62136) 383
****
C8H15N L CAS 7182-69-4 (3806)

N-Allylpiperidine; C5H10N-CH2.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	NaCl	60°C	2.0M	U			1967DHb (62151)	384
							K(PtCl4+HL=PtCl3HL+Cl)=2.64		

****

C8H15NO2 HL (4572)
1-Azacycloheptane-1-ethanoic acid, hexamethyleneimine-ethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	none	25°C	0.0	U		K1=9.51 B2=18.76	1974HFa (62160)	385

****

C8H15N7O2S3 L Famotidine CAS 76824-35-6 (6502)
N'-(Aminosulfonyl)-3-((2-(diaminomethyleneamino)-4-thiazolyl)methylthio)propanamidine

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	KNO3	25°C	0.10M	U		B2=10.31	1995CCa (62275)	386
							B(Pt3L3)=25.21		
							B(Pt3H-1L3)=21.12		
							B(Pt3H-2L3)=15.71		
							B(PtHL2)=15.74		

****

C9H7N3O2S H2L TAR CAS 2246-46-0 (707)
4-(2'-Thiazolylazo)-resorcinol; C3H2NS.N:N.C6H3(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	alc/w	25°C	50%	U			1967NPb (64722)	387
							K(?)=12		

Medium: 50% MeOH, 0.1 M NaClO4

****

C9H8N2 L CAS 578-66-5 (503)
8-Aminoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	sp	oth/un	25°C	0.10M	M			1994ACa (64784)	388
							K(PtLen=Pt(H-1L)en+H)=-8.64		
							K(PtLpy2=Pt(H-1L)py2+H)=-7.40		
							K(PtLA2=Pt(H-1L)A2+H)=-8.57		
							K(PtLB=Pt(H-1L)B+H)=-7.44		

Medium: 0.1 M Na2SO4. A:NH3; B:piperidine. Also data for PtLA2, where A is 4Cl-py, 4Me-py, 4NH2-py, 4NMe2-py, 1,3-diaminopropane and N-tetramethyl-en.

****

C9H10 L CAS 622-97-9 (810)
4-Methylstyrene; CH3.C6H4.CH:CH2

```
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                        1986KUa (65168) 389
                                          K(PtA+L=PtL+A)=-0.25
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
********************************************************************************
C9H10                  L                      CAS 766-90-5  (806)
cis-beta-Methylstyrene; C6H5.CH:CH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                        1986KUa (65171) 390
                                          K(PtA+L=PtL+A)=-1.6
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
********************************************************************************
C9H10                  L                      CAS 873-66-5  (807)
trans-beta-Methylstyrene; C6H5.CH:CH.CH3
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                        1986KUa (65173) 391
                                          K(PtA+L=PtL+A)=-1.8
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
********************************************************************************
C9H10O                 L    4-Vinylanisole   CAS 637-69-4  (809)
4-Methoxystyrene; CH3O.C6H4.CH:CH2
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                        1986KUa (65312) 392
                                          K(PtA+L=PtL+A)=0.15
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
********************************************************************************
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
--------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 0.10M U                         1977SOa (67078) 393
                                          Keff(Pt(NH3)2+L)=3.5 at pH 6.5
********************************************************************************
C9H14N3O7P           H2L    dCMP             CAS 1032-65-1  (5783)
Deoxycytidine-5'-monophosphoric acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       nmr oth/un 25°C 100%  M                         1998ORa (67179) 394
                                          K(Pt(NH3)2L+Cu)=<0.6
                                          *K(Pt(NH3)2(HL)=-3.71
```

*K(Pt(NH3)2L)=-14.0
Method: 1H and 31P nmr in D2O. By potentiometric titration in 0.1 M NaNO3
*K(Pt(NH3)2HL)=-3.31.
****
C9H20As+ (3863)
As,As,As-Triethylallylarsinium cation;
L+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 58°C 2.0M U T HM 1967DHb (68025) 395
K(PtCl4+L=PtCl3L+Cl)=2.96
K=3.12(45 C); DH=-24.6 kJ mol-1, DS=-16.7 J K-1 mol-1
****
C9H20N+ (3862)
N,N,N-Triethylallylammonium cation;
L+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 59°C 2.0M U T H 1967DHb (68026) 396
K(PtCl4+L=PtCl3L+Cl)=2.05
K=2.41(25 C),2.18(45 C); DH=-20.5 kJ mol-1, DS=-19.2 J K-1 mol-1

Pt++ sp oth/un 25°C 2.0M U M 1967DHc (68027) 397
K(PtBr4+L=PtBr3L+Br)=1.64
Medium: KBr
****
C9H20P+ (3864)
P,P,P-Triethylallylphosphinium cation;
L+

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ sp NaCl 59°C 2.0M U M 1967DHb (68129) 398
K(PtCl4+L=PtCl3L+Cl)=2.70
****
C10H7NO2 HL CAS 132-53-6 (2524)
2-Nitroso-1-naphthol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo
---
Pt++ gl alc/w RT 40% M K1=4.87 B2= 9.76 1993RAb (68656) 399
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
****
C10H7NO2 HL Quinaldic acid CAS 93-10-7 (2209)
Quinoline-2-carboxylic acid;

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

```
Pt++       gl  KNO3   25°C 0.10M U        K1=9.93   B2=18.26  1988ZMa (68719) 400
                                         K3=7.45
**************************************************************************
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
--------------------------------------------------------------------------
Pt++       gl  oth/un  RT  0.10M M        K1=5.62   B2=10.69  1993RAb (68893) 401
Medium not stated.
**************************************************************************
C10H9N3                L    Dipyridylamine   CAS 1202-34-2  (2428)
(2,2'-Dipyridyl)amine; C5H4N.NH.C5H4N
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       sp  NaNO3  25°C 0.10M U                        1998RNa (70341) 402
                                         *K(Pt(CH3)L(Me2SO))=-12.1
Method: UV-vis absoprtion.
**************************************************************************
C10H12N4O5             HL    Inosine          CAS 58-63-9  (2344)
Hypoxanthine-9-beta-D-ribofuranoside;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C                        2004BSb (71403) 403
                                         K(PtA+L)= 8.23
                                         K(PtA+2L)=12.20
HA=2-amino-3-methylmercaptopropionic acid (S-methyl cysteine)
--------------------------------------------------------------------------
Pt++       oth NaClO4 25°C 0.10M U                        1996MOa (71404) 404
                                         K(PtCl(NH3)2L+H)=7.52
Method: HPLC
**************************************************************************
C10H13N                L                      CAS 2039-80-7  (808)
4-Dimethylaminostyrene; (CH3)2N.C6H4.CH:CH2
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       nmr non-aq -15°C 100%  U                       1986KUa (71693) 405
                                         K(PtA+L=PtL+A)=0.84
Pt = trans-PtCl2(py); A = o-methylstyrene; Medium: CDCl3
**************************************************************************
C10H13N4O8P            H3L    IMP              CAS 131-99-7  (843)
Inosine-5'-monophosphoric acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C    M                   2004BSb (71871) 406
                                         K(PtA+L)= 9.61
```

```
                                        K(PtA+H+L)=15.87
HA=2-amino-3-methylmercaptopropionic acid (S-methyl cysteine)
--------------------------------------------------------------------------------
Pt++       cal NaCl   25°C 0.10M U   H                  1991OMa (71872) 407
                                        Keff(Pt(phen)en+L)=2.34
Measured at pH 7-8.  DH=-11.9 kJ mol-1, DS=5 J K-1 mol-1.
********************************************************************************
C10H13N5O3              L    Deoxyadenosine   CAS 16373-93-6  (2153)
2'-Deoxyadenosine, Adenine deoxyriboside;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M M                       1999SSb (71889) 408
                                        *K(cis-Pt(NH3)2(H2O)HL)=-5.28
                                        *K(cis-Pt(NH3)2(OH)HL)=-1.7
                                        *K(trans-Pt(NH3)2(H2O)HL)=-4.8
                                        *K(trans-Pt(NH3)2(OH)HL)=-1.7
*K(cis-Pt(NH3)2(HL)Cl)=-1.7, *K(trans-Pt(NH3)2(HL)Cl)=-1.7.
********************************************************************************
C10H13N5O4             HL    Deoxyguanosine   CAS 961-07-9  (3911)
2-Aminopurin-6-one 9-deoxyriboside;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M M                       1999SSb (71896) 409
                                        *K(cis-Pt(NH3)2(H2O)HL)=-4.91
                                        *K(cis-Pt(NH3)2(OH)HL)=-8.28
                                        *K(trans-Pt(NH3)2(H2O)HL)=-5.6
                                        *K(trans-Pt(NH3)2(OH)HL)=-8.42
*K(cis-Pt(NH3)2(HL)Cl)=-7.84, *K(trans-Pt(NH3)2(HL)Cl)=-8.24.
--------------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M M                       1998SSd (71897) 410
                                        K(Pt(HL)A+Mg)=1.21
                                        K(Pt(HL)A+Cu)=2.60
                                        K(Pt(HL)A+Zn)=1.81
H2A: deoxyguanosine monophosphoric acid.
********************************************************************************
C10H13N5O4              L    Adenosine        CAS 58-61-7  (2154)
Adenosine, Adenine-9-beta-D-ribofuranoside;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  NaClO4 25°C 0.10M U    M                  1977SOa (71948) 411
                                        Keff(Pt(NH3)2+L)=3.6 at pH 6.5
********************************************************************************
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
--------------------------------------------------------------------------------
```

```
Pt++       sp  NaClO4 25°C 0.10M U    M                  1977SOa (72016) 412
                                        Keff((NH3)2Pt+L)=3.7 at pH 6.5
**************************************************************************
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
--------------------------------------------------------------------------
Pt++       nmr oth/un 37°C    ?  U    M                  1989DTa (72108) 413
                                        K(Pt(NH3)2+H-1L)=9.95
                                        K(PtH-1(NH3)2+H-1L)=6.92
--------------------------------------------------------------------------
Pt++       nmr none   25°C  0.0  U    M                  1978IKa (72109) 414
                                        K(Pt(NH3)3(H2O)+L)=10.4
                                        K(Pt(en)(H2O)2+L)=10.3
                                        K(Pt(en)L(H2O)+L)=7.4
**************************************************************************
C10H14N5O7P           H2L    dGMP             CAS 902-04-5  (5781)
Deoxyguanosine-5'-monophosphoric acid;
--------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------
Pt++       gl  NaNO3  25°C 0.10M U    M                  1998SOc (72514) 415
                                        K(MgPdL2+H)=5.75
                                        K(PdL2+Mg)=1.86
                                        K(PdHL2+Mg)=1.32
                                        K(CuPdL2+H)=5.26
K(PdL2+Cu)=3.63, K(PdHL2+Cu)=2.60, K(ZnPdL2+H)=5.2, K(PdL2+Zn)=2.8,
K(PdHL2+Zn)=1.7.
**************************************************************************
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
--------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C    M                  2004BSb (72600) 416
                                        K(PtA+L)=12.38
                                        K(PtA+H+L)=18.80
                                        K(PtA+2H+L)=22.27
HA=2-amino-3-methylmercaptopropionic acid (S-methyl cysteine)
--------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C    M                  2004BSb (72601) 417
                                        K(PtA+H+L)=15.85
                                        K(PtA+2H+L)=21.25
A=2,2':6',2''-terpyridine (terpy)
**************************************************************************
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
```

```
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C  1.0M U                      1973SOa (74106) 418
                                      K(PtLOH+H)=9.08
                                      K(PtL+H)=2.88
                                      K(PtHL+H)=2.18
                                      K(PtH2L+H)=0.5
K(PtH3L+H) < 0
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C  1.0M U                      1973SOa (74107) 419
                                      K(PtClL+H)=3.43
                                      K(PtHClL+H)=2.73
                                      K(PtH2ClL+H)=2.25
                                      K(PtBrL+H)=3.46
K(PtHBrL+H)=2.76, K(PtH2BrL+H)=2.26
--------------------------------------------------------------------------------
Pt++       sp  KNO3   25°C  1.0M U                      1973SOa (74108) 420
                                      K(PtL+Cl)=1.02
                                      K(HPtL+Cl)=1.57
                                      K(H2PtL+Cl)=2.14
                                      K(H3PtL+Cl)=4.0
2nd method: glass electrode. K(PtL+Br)=1.47, K(HPtL+Br)=2.02
K(H2PtL+Br)=2.62, K(H3PtL+Br)=4.5
--------------------------------------------------------------------------------
Pt++       sp  KNO3   25°C  1.0M U                      1973SOa (74109) 421
                                      K(PtL+I)=2.90
                                      K(PtL+SCN)=4.64
                                      K(PtL+NH3)=4.7
********************************************************************************
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
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M U        K1=8.82   B2=16.90  1995CCa (74913) 422
                                      B(PtH-1L)=1.41
                                      B(PtH-2L)=-9.96
                                      B(PtH-1L2)=8.60
                                      B(PtH-2L2)=-0.48
--------------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M C        K1=8.815  B2=16.926 1992NCa (74914) 423
                                      B(PtH-1L)=1.412
                                      B(PtH-2L)=-9.96
                                      B(PtH-1L2)=8.603
                                      B(PtH-2L2)=-0.477
********************************************************************************
C10H17N3O6S            H3L    Glutathione      CAS 70-18-8  (333)
Glutamyl-cysteinyl-glycine;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
```

```
Pt++       gl  NaClO4 25°C 0.10M C    M                  2004BSb (75141) 424
                                        K(PtA+L)=16.63
                                        K(PtA+H+L)=20.48
                                        K(PtA+2H+L)=22.33
HA=2-amino-3-methylmercaptopropionic acid (S-methyl cysteine)
-------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.10M C    M                  2004BSb (75142) 425
                                        K(PtA+2H+L)=24.90
                                        K(PtA+3H+L)=28.43
A=2,2':6',2''-terpyridine (terpy)
*******************************************************************************
C10H22As+                                      (3901)
As,As,As-Triethylbut-3-enylarsinium cation
             L+
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  NaCl   60°C  2.0M U T H                  1967DHb (76214) 426
                                        K(PtCl4+L=PtCl3L+Cl)=3.74
K=3.95(30 C),3.85(44.8 C). DH=-13.8 kJ mol-1, DS=29 J K-1 mol-1
*******************************************************************************
C10H22N+                                       (3899)
N,N,N-Triethylbut-3-enylammonium cation
             L+
-------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------------
Pt++       sp  NaCl   60°C  2.0M U T H                  1967DHb (76215) 427
                                        K(PtCl4+L=PtCl3L+Cl)=3.65
K=3.89(30 C),3.77(44.8 C). DH=-15.9 kJ mol-1, DS=21 J K-1 mol-1
*******************************************************************************
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
-------------------------------------------------------------------------------
Pt++       gl  alc/w   RT   40%  M       K1=15.48  B2=28.11  1993RAb (76894) 428
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*******************************************************************************
C11H7NO4             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
-------------------------------------------------------------------------------
Pt++       gl  alc/w   RT   40%  M       K1=10.46  B2=17.28  1993RAb (76902) 429
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*******************************************************************************
C11H8O3              H2L                    CAS 86-48-6  (1129)
1-Hydroxy-2-naphthoic acid;
-------------------------------------------------------------------------------
```

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       gl  alc/w   RT   40%  M        K1=12.22  B2=23.15  1993RAb (77017) 430
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
-------------------------------------------------------------------------
Pt++       gl  alc/w   RT   40%  M        K1=12.53  B2=24.31  1993RAb (77131) 431
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.
*************************************************************************
C12H13N3               L                      CAS 1539-42-0  (932)
bis-((2-Pyridyl)methyl)-amine (Di-2-picolylamine); C5H4N.CH2NHCH2.C5H4N
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       gl  oth/un 25°C 0.20M M                      2002PAb (81290) 432
                                      *K(PtL(H2O))=-5.4
                                      *K(PtL(OH))=-11.5
                                      *K(PtLCl)=-12.3
Medium: 0.20 M CH3SO2Na. *K(PtLCl) determined by spectrophotometry.
*K(PtLCl) and *K(PtL(OH)) refer to formation of amido species.
*************************************************************************
C12H26N+                                        (3963)
N,N,N-Tripropylallylammonium cation;
             L+
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       sp  NaCl   60°C  2.0M U    M                   1967DHb (83718) 433
                                     K(PtCl4+L=PtCl3L+Cl)=2.12
*************************************************************************
C13H22N4O3S            L    Ranitidine       CAS 66357-35-5  (7144)
N(2-(5-Dimethylaminomethyl)-2-furanylmethyl)thioethyl-N-methyl-2-nitro-1-ethenediam
ine;
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
-------------------------------------------------------------------------
Pt++       gl  KNO3   25°C 0.10M U        K1=6.15   B2=10.55  1995CCa (86333) 434
                                      B(PtH-1L)=-1.26
                                      B(PtH-2L)=-10.01
                                      B(PtH-1L2)=2.76
                                      B(PtH-2L2)=-5.72
*************************************************************************
C14H14S                L                      CAS 26898-12-4  (5030)
Dibenzylsulfide; C6H5.CH2.S.CH2.C6H5
-------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

```
--------------------------------------------------------------------------------
Pt++       nmr non-aq 33°C 100%  U                        1973RBa (87705) 435
Medium: CHCl3.  K(cis-PtL2I2=trans-Pt(L2I2))=0.53
DH=8.36 kJ mol-1, DS=37.6 J K-1 mol-1
--------------------------------------------------------------------------------
Pt++       nmr non-aq 36°C 100%  U                        1973RBa (87706) 436
Medium: CHCl3.  K(cis-PtL2Br2=trans-PtL2Br2)=-0.32
DH=20.06 kJ mol-1, DS=58.5 J K-1 mol-1
--------------------------------------------------------------------------------
Pt++       nmr non-aq 40°C 100%  U                        1973RBa (87707) 437
Medium: CHCl3.  K(cis-PtL2Cl2=trans-PtL2Cl2)=-0.80
DH=28.00 kJ mol-1, DS=75.2 J K-1 mol-1
********************************************************************************
C14H37N7                L                       CAS 298-85-5  (5606)
1,4,7,10,13,16,19-Heptaazacycloheneicosane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.15M C    M                  1992BBa (90918) 438
                                        K(Pt(CN)4+H3L)=2.56
                                        K(Pt(CN)4+H4L)=3.07
                                        K(Pt(CN)4+H5L)=3.49
                                        K(Pt(CN)4+H6L)=3.61
K(Pt(CN)4+H7L)=3.71
********************************************************************************
C15H32N+                                          (4057)
N,N,N-Tributylallylammonium cation
             L+
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  NaCl   60°C  2.0M U                        1967DHb (92541) 439
                                       K(PtCl4+L=PtCl3L+Cl)=2.49
********************************************************************************
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
--------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.15M C    M                  1992BBa (95662) 440
                                        K(Pt(CN)4+H3L)=2.48
                                        K(Pt(CN)4+H4L)=3.00
                                        K(Pt(CN)4+H5L)=3.44
                                        K(Pt(CN)4+H6L)=3.53
K(Pt(CN)4+H7L)=3.59, K(Pt(CN)4+H8L)=3.71
********************************************************************************
C18H15O3PS             HL                       CAS 16704-71-5  (3365)
3-Diphenylphosphino-benzene sulfonic acid;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
```

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--------------------------------------------------------------------------------
Pt++       ISE NaClO4 25°C  1.0M U        K1=11.5   B2=22.60  1972CBa (97111) 441
                                         K2=10.5 (trans isomer)
********************************************************************************
C18H15P                 L                     CAS 603-35-0  (621)
Triphenylphosphine; (C6H5)3P
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       ISE KNO3   25°C 0.10M U                        1973GGe (97146) 442
K(trans-Pt(NH3)2LCl+H2O=Pt(NH3)2L(H2O)+Cl)=3.65
In 0.1 M NH4ClO4: K(trans-Pt(NH3)3L+H2O=Pt(NH3)2L(H2O)+NH3)=6.84
********************************************************************************
C18H45N9                L                       (5838)
1,4,7,10,13,16,19,22,25-Nonaazacycloheptacosane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.15M C    M                  1992BBa (98972) 443
                                         K(Pt(CN)4+H4L)=3.00
                                         K(Pt(CN)4+H5L)=3.53
                                         K(Pt(CN)4+H6L)=3.80
                                         K(Pt(CN)4+H7L)=3.83
K(Pt(CN)4+H8L)=4.17
********************************************************************************
C20H50N10               L                     CAS 862-28-2  (5839)
1,4,7,10,13,16,19,22,25,28-Decaazacyclotriacontane;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       gl  NaClO4 25°C 0.15M C    M                  1992BBa (101004) 444
                                         K(Pt(CN)4+H4L)=2.69
                                         K(Pt(CN)4+H5L)=2.77
                                         K(Pt(CN)4+H6L)=3.14
                                         K(Pt(CN)4+H7L)=3.36
K(Pt(CN)4+H8L)=3.44, K(Pt(CN)4+H9L)=3.83
********************************************************************************
C21H20N3                L    Ethidium         CAS 1239-45-8  (6873)
3,8-Diamino-5-ethyl-6-phenylphenanthridium;
--------------------------------------------------------------------------------
Metal      Mtd Medium Temp Conc Cal Flags Lg K values       Reference ExptNo
--------------------------------------------------------------------------------
Pt++       sp  alc/w  25°C 100%  U   HM                  1993RBa (101147) 445
                                         K=1.41
Medium:MeOH. T.-50 to 50 C. K:cis-[PtAB2(N3-(H-1L))]+HC=cis-[PtAB2(N3-L)]+C
A:Cl. B:NH3. HC:CH3COOH. DH=-57.3 kJ mol-1; DS=-165. Also data for trans-
********************************************************************************
C22H44N2O2S2            L                     CAS 73487-00-0  (5937)
N,N,N',N'-Tetrabutyl-3,6-dioxaoctanedithioamide; ((C4H9)2N.CS.CH2.O.CH2-)2
--------------------------------------------------------------------------------
```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	nmr	oth/un	?	?	U	M	1983HPa (102409)		446

K(PtLCl2+I=PtLClI+Cl)=0.23
k(PtLCl2+Br=PtLClBr+Cl)=0.241
K(PtLClBr+Br=PtLBr2+Cl)=0.056

Medium: CD3CN

****

C22H55N11 L CAS 60464-68-8 (5836)
1,4,7,10,13,16,19,22,25,28,31-Undecaazacyclotritriacontane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Pt++	gl	NaClO4	25°C	0.15M	C	M	1992BBa (102511)		447

K(Pt(CN)4+H4L)=3.17
K(Pt(CN)4+H5L)=3.60
K(Pt(CN)4+H6L)=4.71
K(Pt(CN)4+H7L)=5.46
K(Pt(CN)4+H8L)=5.83, K(Pt(CN)4+H9L)=6.09, K(Pt(CN)4+H10L)=6.67

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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 :-

END