

START Experiments recorded for
 from SC-Database on Saturday, 01 January, 2000 at 00:53:24
 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			1972GIa	(815) 1
K=24.54(726mV) K'=20.72(613mV) 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			1972GIa	(816) 2
K=-1.12 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			1972GIa	(817) 3
K=-2.86 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			1969PEa	(818) 4
K=18.59(550mV, A=1/2en) 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			1968GDd	(819) 5
K=19.58, 579.0 mV K'=20.85, 616.8 mV 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				1968GLa	(820) 6
K=16.01, 529mV 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			1968ZMa	(821) 7
K=22.83(664mV, 20 C) 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

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

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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
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Br-          HL      Bromide          CAS 10035-10-6  (19)
Bromide;
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values          Reference ExptNo
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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
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Pt(IV)      sp  NaClO4  25°C  ? U                          1971EGc  (2247)  26
                                           K4=5.04
                                           K5=4.0
                                           K6=3.3

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Medium: HClO4

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

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)

$$K_{out}(Pt(pn)_{3+L}) = 0.68$$

Also for I=0.5 M K1out=0.15; for 0 M K1out=1.51;
pn=propylenediamine

$$K(\text{PtL}_2\text{A}_4 + \text{L}) = 3.15$$
$$K(PtL3A4+L)=2.55$$

A=CH₃NH₂. Data also for many other substituents

 $K_6 = 2.88$

Medium: H₂SO₄. DH(K6)=-30.5 kJ mol⁻¹. K6=2.72(35 C), 2.55(42 C), 2.49(50 C)

$$K(\text{Pt}(\text{en})_3\text{L}) = -0.25$$

By solubility: $K = -0.21$

$$K(\text{Pt}(\text{OH})_2(\text{NH}_3)_4 + \text{L}) = -1.42$$
$$K(\text{Pt}(\text{OH})_2(\text{NH}_3)_3\text{NO}_2 + \text{L}) = -0.02$$

At 50 C: values: -1.22, 0.08

$$K(\text{PtL}_4(\text{H}_2\text{O})\text{OH}+\text{H})=1.9$$
$$K(\text{PtL}_4(\text{OH})_2 + \text{H}) = 5.5$$

Method: ir and Raman

$$K6=2.76$$

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

$$K(\text{PtCl}_5\text{H} + \text{H}) = 3.80$$
$$K6=1.54$$
$$K(\text{trans-Pt}(\text{NH}_3)_2\text{L}_3 + \text{L}) = 2.40$$
$$K(\text{trans-Pt}(\text{NH}_3)_2\text{L}_2 + \text{L}) = 3.7$$

Also values at 20 - 50 C

$$K5K6=5,60$$

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

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. $B6(I)/B6(Cl) = 19.30(0\text{ C}), 17.09(45\text{ C})$; $/Br = 17.79(0\text{ C}), 15.10(44\text{ C})$. $DH(\text{PtCl6} + 6I = \text{PtI6} + 6Cl) = -79\text{ kJ mol}^{-1}$. $DH(\text{PtBr6} + 6I = \text{PtI6} + 6Br) = -96$

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(IV)	sp	NaClO4	25°C	0.1M	C				1975KNb (8328)	58
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$K_{out}(\text{Pt(pn)3} + L) = 0.0.34$

Also; for 0 M $K_{lout} = 1.23$;
 pn=propylenediamine

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

Pt(IV)	EMF	oth/un	25°C	dil	U T M				1971ZFa (8330)	60
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$K(\text{cis-PtA2L2(H2O)OH} + H) = 2.45$
 $K(\text{trans-PtA2L2(H2O)OH} + H) = 2.52$
 $K'(\text{cis-PtA2L2(OH)2} + H) = 3.68$
 $K'(\text{trans-PtA2L2(OH)2} + H) = 3.71$

A=NH3. $K(\text{cis}) = 3.43(0\text{ C}), 2.26(50\text{ C})$. $K(\text{trans}) = 3.38(0\text{ C}), 2.26(50\text{ C})$
 $K'(\text{cis}) = 4.25(25\text{ C}), 3.41(50\text{ C})$. $K'(\text{trans}) = 4.25(25\text{ C}), 3.46(50\text{ C})$

Pt(IV)	EMF	oth/un	25°C	dil	U				1971ZFa (8331)	61
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$K(\text{Pt(NH3)3I(H2O)OH} + H) = 2.65$
 $K(\text{Pt(NH3)3I(OH)2} + H) = 3.23$
 $K(\text{Pt(NH3)3I2OH} + H) = 3.35$

0-50 C

Pt(IV)	ISE	oth/un	25°C	dil	U				1967CPb (8332)	62
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$K4 = 4.8$
 $K5 = 4.4$
 $K6 = 3.4$

$K(\text{PtI4} + I = \text{PtI3} + \text{I2}) = 0.8$
 Also spectrophotometry, glass electrode, kinetics. $K(\text{PtI5OH} + H) = 8.6$
 $K(\text{PtI6} = \text{Pt(II)I4} + \text{I2}) = 8.1$

Pt(IV)	gl	oth/un	25°C	0.10M	U				1967NPc (8333)	63
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$K(\text{Pt(OH)6} + L = \text{Pt(OH)5L} + \text{OH}) = -1.57$
 $K(\text{Pt(OH)5L} + L) = -1.82$
 $K(\text{Pt(OH)4L2} + L) = -1.87$

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)	kin	NaCl	25°C	0.10M	U		Kout(PtCl6+L)=2.19 Kout(trans-PtCl4(NH3)2+L)=1.75 Kout(cis-PtCl4(NH3)2+L)=1.68	1998HHa (9272)	66

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

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;

Pt(IV)	gl	oth/un	25°C	dil	U	M	1968GGe (11966)	70
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*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

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

S03-- H2L Sulfite CAS 7782-99-2 (801)
Sulfite;

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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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 Klout=2.20; for 0 M Klout=4.60;
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S04-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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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 Klout=1.26; for 0 M Klout=3.95;
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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 Klout=1.08; for 0 M Klout=3.75;
pn=propylenediamine
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```
Pt(IV)     sp  oth/un 25°C  0.0 U    M                        1960NPa (16486)  92
                                           Kout(Pt(en)3+L)=3.52
*****
```

Se03-- 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 Klout=1.76; for 0 M Klout=4.30;
*****
```

CH202 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	KNO ₃	25°C	1.00M	U	M		1973KYb (18028)	96
							B(PtL4Cl ₂)=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	NaClO ₄	20°C	1.00M	U			1968GKa (19457)	97
							B ₄ =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) ₂ Cl ₂ +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	KNO ₃	25°C	1.00M	U	M		1973KYb (22277)	99
							B(PtL4Cl ₂)=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	KNO ₃	25°C	1.00M	U	M		1973KYb (23224)	100
							B(PtL ₂ Cl ₂)=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	NaNO ₃	15°C	0.10M	U	T	K ₁ =13.40 B ₂ =18.65	1984IDa (26831)	101
							At 30 C, K ₁ =13.35, K ₂ =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)3LC12)=50.7
B(Pt(NH3)2L2C12)=50.2(cis)
B(Pt(NH3)2L2C12)=49.6(trans)
B(Pt(NH3)L3C12)=43.9
-----
```

B(PtL4C12)=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)2L2C12)=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
-----
```

$$K_{out}(cis-PtCl_4(NH_3)_2+L) = -2.63$$

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 1966N Na (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

C₁₈H₂₂N₂O₅ 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	NaClO ₄	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 00C 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 00C 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 00C 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 00C 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 00C 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 250C 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 250C 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)

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-----
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                      1964YTb  (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

```

$K(H_2PtLA+H)=2.26$
 $K(HPtLA+H)=2.76$
 $K(PtLA+H)=3.46$
 $K(PtA+L)=1.47$

H4A=EDTA. $K(PtA+2L)=2.02$

Pt++ EMF mixed ? 0.10M U 1972GGb (2260) 136

$K(PtH(Ph_3P)_2+L)=1.51$

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. $\Delta H(K)=-35.6$ kJ mol⁻¹

$K=4.75(15\text{ C})$, $4.34(35\text{ C})$

Pt++ gl NaNO₃ 25°C 0.30M U 1972KTc (2262) 138

$K(PtL_2(DMSO)+L)=3.60$

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

$K(Pt(NH_3)_2L_2+Pt(NH_3)_2L_4)=-4.6$

Medium: acetone, KBr. Pt(II)-Pt(IV) complex. Method: dialysis

Pt++ sp NaClO₄ 25°C 0.50M U T M 1970ELb (2265) 141

$K_3=3.6$

$K_4=2.7$

$K(cis-trans-PtL_2(H_2O)_2)=-0.34$

Medium: HClO₄. $K_3=3.4$, $K_4=2.6(35\text{ C})$. Data also by kinetics

Pt++ EMF non-aq 450°C 100% U $K_1=0.13$ $B_2=1.06$ 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 $K_1=3.82$ $B_2=6.74$ 1968GVa (2268) 144

Metal: Pt(NH₃)₂++. Method: chemical analysis. At 25 C: $K_1=4.05$, $K_2=3.02$

$\Delta H(K_2)=-16.7$ kJ mol⁻¹, $\Delta S=1.7$ 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. $K=0.58(25\text{ C})$. In 'dilute soln.': $K_1=4.02(25\text{ C})$, $4.07(35\text{ C})$

Pt++ gl oth/un 25°C 0.10M U 1967NPd (2270) 146

CN- Cyanide;	HL	Cyanide	CAS 74-90-8	(230)
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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

K_{out}(Pt(trans-A)pyCl+Cl)=2.85

K_{out}(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-diamino-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⁻¹ 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

$K_2(\text{cis})=3.7$
 $K_2(\text{trans})=3.7$
 $K_3(\text{cis})=3.1$
 $K_3(\text{trans})=3.2$
 Medium: HClO_4 . $K(\text{trans-Pt}(\text{H}_2\text{O})_2\text{L}_2)=\text{cis-Pt}(\text{H}_2\text{O})_2\text{L}_2)=0.08$. $K_2(\text{cis})$: $\text{Pt}(\text{H}_2\text{O})_3\text{L}+\text{L}=\text{cis-Pt}(\text{H}_2\text{O})_2\text{L}_2$. Data also at 35 and 60 C

Pt++ EMF oth/un 25°C 3.0M U T H 1970KSa (5548) 185
 $K_4=2.41$
 Medium: H_2SO_4 . $\text{DH}(K_4)=-23.0 \text{ kJ mol}^{-1}$. $K_4=2.38(35 \text{ C})$, $2.32(42 \text{ C})$, $2.18(50 \text{ C})$, $2.04(60 \text{ C})$. In 0.2 M H_2SO_4 , 25 C: $K_4=2.20$

Pt++ sp alc/w 25°C 100% U 1968MMc (5549) 186
 $K(\text{Pt}(\text{C}_2\text{H}_4)_2\text{L}+\text{L})=4.3$
 Medium: EtOH

Pt++ sp oth/un 0°C dil U T H 1968PAb (5550) 187
 $K(\text{cis-Pt}(\text{NH}_3)_2\text{L}+\text{L})=2.39$
 $K=2.42$ (18 to 30 C)

Pt++ kin oth/un 30°C 0.0 U H 1968PMg (5551) 188
 $K(\text{Pt}(\text{NH}_3)_2\text{L}+\text{L})=3.9$
 $\text{DH}=-5.0 \text{ kJ mol}^{-1}$, $\text{DS}=58.5 \text{ J K}^{-1} \text{ mol}^{-1}$

Pt++ kin NaClO_4 25°C 0.50M U T H $K_1=1.89$ 1967DEa (5552) 189
 $K_4=2.00(15 \text{ C})$, $1.77(35 \text{ C})$. $\text{DH}(K_4)=-19 \text{ kJ mol}^{-1}$, $\text{DS}=-25 \text{ J K}^{-1} \text{ mol}^{-1}$

Pt++ oth NaClO_4 60°C 0.50M U $K_1=1.51$ 1967ELb (5553) 190
 Method: chemical analysis. Medium: HClO_4

Pt++ ISE NaNO_3 18°C 0.10M U M 1967GGf (5554) 191
 $K(\text{cis}-(\text{NH}_2\text{OCH}_3)_2\text{L}+\text{L})=4.20$
 $K(\text{trans}-(\text{NH}_2\text{OCH}_3)_2\text{L}+\text{L})=3.05$
 $K(\text{cis}-(\text{NH}_2\text{OH})_2\text{L}+\text{L})=3.44$
 $K(\text{trans}-(\text{NH}_2\text{OH})_2\text{L}+\text{L})=2.92$

Pt++ kin NaClO_4 25°C 0.50M U 1966ELa (5555) 192
 $K_4=1.89$

Pt++ sp NaClO_4 25°C 0.50M U 1966ELb (5556) 193
 $K_3=2.96$
 $K_4=1.87$
 Medium: HClO_4 . By anion exchange: $K_3=3.0$

Pt++ sp NaClO_4 25°C 0.20M U 1966EMa (5557) 194
 $K(\text{trans-PtA}_2(\text{PEt}_3)_2\text{H}_2\text{O}+\text{L})=3.1$
 Medium: HClO_4 . A=piperidine

Pt++ ISE KNO_3 18°C 1.0M U 1966GGc (5558) 195
 $K(\text{cis-Pt}(\text{NH}_3)_2\text{L}+\text{L})=2.72$

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 1963GPb (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: $\text{Pt}(\text{OH})_4 + \text{H} + \text{L} = \text{Pt}(\text{OH})_3\text{L} + \text{H}_2\text{O}$; +K2: $\text{Pt}(\text{OH})_3\text{L} + \text{H} + \text{L} = \text{Pt}(\text{OH})_2\text{L}_2 + \text{H}_2\text{O}$

+K3: $\text{Pt}(\text{OH})_2\text{L}_2 + \text{H} + \text{L} = \text{PtOHL}_3 + \text{H}_2\text{O}$; K4: $\text{Pt}(\text{OH})\text{L}_3 + \text{H} + \text{L} = \text{PtL}_4 + \text{H}_2\text{O}$

Pt++ oth oth/un 25°C 0.32M U IHM 1961ADa (5570) 207

$K(\text{trans-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 3.49$

Method: chemical analysis. $\text{DH} = -23 \text{ kJ mol}^{-1}$. At $I=0$ corr.: $K=4.09$

Pt++ oth oth/un 25°C 0.32M U T HM 1961MAh (5571) 208

$K(\text{cis-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 3.4$

$K(\text{PtL}_2 + \text{L}) = 3.3$

$K(\text{PtL}_3 + \text{L}) = 1.82$

$K(\text{cis-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 2.48$

Method: chemical analysis, 0.32 M Na_2SO_4 . $K(\text{trans-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 3.66(15 \text{ C})$, $3.49(25 \text{ C})$, $3.36(35 \text{ C})$. $K(\text{trans-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 4.09(25 \text{ C})$, $3.96(35 \text{ C})$. $\text{DH} = -25$

Pt++ oth oth/un 25°C 0.32M U T 1961Rmb (5572) 209

$K(\text{Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 3.4$

$K(\text{Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 2.48$

Method: chemical analysis, medium: Na_2SO_4 . At 35 C: 3.7, 2.41

Pt++ oth NaNO_3 25°C 0.32M U 1961Smb (5573) 210

$K_3 = 3.27$

$K_4 = 1.82$

Method: chemical analysis. At $I=0$ corr.: $K_3 = 3.0$, $K_4 = 1.52$. By glass electrode $I=0.32 \text{ M NaNO}_3$: $K(\text{PtL}_3\text{OH} + \text{H}) = 7.0$, $K(\text{PtL}_2(\text{H}_2\text{O})\text{OH} + \text{H}) = 5.2$, $K(\text{PtL}_2(\text{OH})_2 + \text{H}) = 8.3$

Pt++ ISE NaNO_3 18°C 1.0M U 1960GGb (5574) 211

$B_4 = 16.6$

Pt++ oth KNO_3 17°C 0.10M U 1960GSe (5575) 212

$K_4 = 1.72$

$K(\text{Pt}(\text{NH}_3)\text{L}_2 + \text{L}) = 2.1$

$K(\text{cis-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 2.4$

$K(\text{trans-Pt}(\text{NH}_3)_2\text{L} + \text{L}) = 3.1$

Method: chemical analysis

Pt++ kin oth/un 25°C 0.32M U H 1958ERa (5576) 213

$K(\text{Pt}(\text{NH}_3)\text{L}_2 + \text{L}) = 1.84$

Also by chemical analysis, medium: Na_2SO_4 . $\text{DH} = -8.8 \text{ kJ mol}^{-1}$.

27 C: $K(\text{Pt}(\text{NH}_3)\text{L} + \text{L}) = 4.4$

Pt++ gl NaClO_4 25°C .318M U T H 1955GEa (5577) 214

$K_4 = 1.74$

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		
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		
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: $\text{PtCl}_4 + \text{Br} = \text{PtCl}_3\text{Br} + \text{Cl}$ etc. $\text{PtCl}_3(\text{H}_2\text{O}) + \text{Cl} = \text{PtCl}_4 + \text{H}_2\text{O} = 1.74$, $\text{K}(\text{PtCl}_2\text{Br}(\text{H}_2\text{O}) + \text{Cl} = \text{PtCl}_3\text{Br} + \text{H}_2\text{O}) = 1.85$

Pt++	gl	oth/un	23°C	0.20M	U	M	1956CGa	(7427)	224
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$\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{NH}_3) = 7.8$
 $\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{Cl}) = 2.5$

Pt++	sp	oth/un	25°C	0.04M	U	M	1955LCb	(7428)	225
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$\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2\text{OH} + \text{H}) = 5.0$

Pt++	EMF	NaClO4	25°C	0.20M	U	M	1955LCb	(7429)	226
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$\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{SCN}) > 4.6$
 $\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{NH}_3) = 7.5$
 $\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{F}) < 1$
 $\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{Cl}) = 2.52$

Method: Ag electrode. Medium: HClO4. Reactions: displacement of H2O

$\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{Br} = \text{C}_2\text{H}_4\text{PtCl}_2\text{Br} + \text{H}_2\text{O}) = 3.04$. $\text{K}(\text{C}_2\text{H}_4\text{PtCl}_2(\text{H}_2\text{O}) + \text{I}) = 4.60$

I-	HL	Iodide	CAS	10034-85-2	(20)
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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
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$\text{K}(\text{PtABr}_2 + \text{I} = \text{PtAIBr} + \text{Br}) = 1.99$
 $\text{K}(\text{PtAIBr} + \text{I} = \text{PtAI}_2 + \text{Br}) = 1.43$
 $\text{K}(\text{PtACl}_2 + \text{I} = \text{PtAICl} + \text{Cl}) = 2.78$
 $\text{K}(\text{PtAICl} + \text{I} = \text{PtAI}_2 + \text{Cl}) = 2.39$

Medium: MeOH, 0.5 M LiClO4. $\text{K}(\text{PtAClBr} + \text{I} = \text{PtAIBr} + \text{Cl}) = 2.42$; $\text{K}(\text{PtAClBr} + \text{I} = \text{PtAICl} + \text{Br}) = 1.36$. A=C6H5S.CH2.CH2.SC6H5.

Pt++	sp	NaClO4	25°C	0.10M	U			1994SRa	(8336)	228
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$\text{K}(\text{PtAB}(\text{H}_2\text{O}) + \text{L} = \text{PtABL} + \text{H}_2\text{O}) = 2.88$

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

Pt++	kin	NaClO4	25°C	1.00M	U		K1=4.98	1986E0a	(8337)	229
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Pt++	sp	none	23°C	0.0	U			1986WEa	(8338)	230
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$\text{K}(\text{Pt}(\text{bpy})_2 + \text{L}) = 2.6$
 $\text{K}(\text{Pt}(\text{phen})_2 + \text{L}) = 0.85$

Pt++	nmr	non-aq	33°C	100%	U	H		1973RBA	(8339)	231
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$\text{K}(\text{cis-trans-PtA}_2\text{L}_2) = -0.53$

Medium: CHCl3. A=dibenzoylsulfide. DH=-8.4 kJ mol⁻¹. Method: nmr

Pt++	sp	KNO3	25°C	1.0M	U			1973SAa	(8340)	232
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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.

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

Pt++ nmr NaClO4 25°C 1.00M U 1998MGa (11987) 248

*K(Pt(H2O)(CN)5)=-2.51

Method: 191Pt nmr

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-----
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                      1996M0a (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          1991W0a (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
-----

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Data also for Pt₂(H₂L)X₂, 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 1993GBa (14454) 268

K_s(PtS+H₂S)=-8.2

K_s(PtS+2H₂S)=-11.3

Constants at I=0. 30-300 C

Pt++ oth none 25°C 0 U 1988LIa (14455) 269

K_{so}(PtS)=-77.4

*K_{so}(PtS)=-60.1

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 1974MKf (15234) 270

K(Pt_{en}2+L)=0.55

Medium: NaF

Pt++ cal oth/un 25°C 1.0M U H 1973MKc (15235) 271

K(Pt(NH₃)₄+L)=0.04

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 1973SAa (15236) 272

K(Pt(EDTA)+L)=4.64

S₃-- H₂L Sulfite CAS 7782-99-2 (801)

Sulfite;

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

Pt++ sp none 23°C 0.0 U 1986WEa (15476) 273

K(Pt(bpy)₂+L)=6.0

K(Pt(phen)₂+L)=4.74

S₄-- H₂L Sulfate CAS 7664-93-9 (15)

Sulfate;

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

Pt++ cal oth/un 25°C 1.0M U HM 1974MKf (16487) 274

$$K(\text{Pt}(\text{en})_2^{2+} + \text{L}) = 0.69$$

$$K(\text{Pt}(\text{bpy})_2\text{L})=6.7$$

$$K_{SO} = -81.4$$

$$K(\text{Pt}(\text{bpy})_2\text{L})=4.13$$

$$K(\text{Pt}(\text{bpy})_2\text{L})=3.18$$

Medium: $(\text{NHMe}_3)_2\text{SO}_4$

Pt++ FME KNO3 18°C 1.0M U 1961GGa (18030) 279

Method: platinum electrode

$$K(C_2H_4PtCl_3 + L \rightleftharpoons trans-C_2H_4LPtCl_2 + Cl) = 6.1$$

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(PdHLC12)=22.99 B(PdLC12)=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(PtHLC12)=23.70, B(PtLC12)=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		K(PtCl2+4L)=25.0	1968SGe (20671)	287

C2H5NO		L	Acetamide					CAS 60-35-5 (2886)		
Ethanoic acid amide; CH3.CO.NH2										
Pt++	nmr	non-aq	25°C	100%	U	M		K(PtA+L=PtAL)=7	1992WFa (20674)	288
Medium: acetone. A is Diethylenetriamine.										

C2H5NO2		HL	Glycine					CAS 56-40-6 (85)		
2-Aminoethanoic acid; H2N.CH2.COOH										
Pt++	gl	oth/un	35°C	?	U	M		*K(PtL(DMSO)(H2O))=-4.14	1989EBa (21696)	289
Pt++	gl	NaClO4	25°C	0.10M	U			K(PtL(en)+H)=3.18	1982KBa (21697)	290

C2H6OS		L	DMSO					CAS 67-68-5 (329)		
Dimethylsulfoxide; (CH3)2.SO										
Pt++	gl	KNO3	25°C	0.10M	U	M		K(Pt(NH3)3L+H2O=Pt(NH3)2LH2O+NH3)=8.18	1972GKe (22120)	291

C2H6S		L						CAS 75-18-3 (151)		
Dimethyl sulfide; CH3.S.CH3										
Pt++	nmr	non-aq	30°C	100%	U	H		K(Pt2Me4L2+2L=2PtMe2L2)=3.41	1998SEa (22193)	292
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		K(cis-PtL2Cl2=trans form)=0.81	1973RBA (22194)	293
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-PtCl₂L₂=trans 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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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	KNO ₃	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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pt++	EMF	KNO ₃	18°C	1.0M	U			B ₂ =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

1. $\text{prop} = \text{en} = \text{even}$, $\text{en} \neq \text{even} \neq \text{even}$

[illegible]
$$R(\Gamma \cup (\text{minS}), \Sigma) = (\text{min}) \cdot R(\Gamma, \Sigma)$$
$$K=4.11(30^\circ\text{C}) \quad 3.86(44.5^\circ\text{C}) \quad \text{DH}=33.0 \text{ kJ mol}^{-1} \quad \text{DS}=31.8 \text{ J K}^{-1} \text{ mol}^{-1}$$

Prop = CH₃CH₂CH₂CO₂H; CH₂CH=CHCH₂CO₂H

[illegible]
$$K=3, 46(35\text{ }^{\circ}\text{C}), 3, 33(45\text{ }^{\circ}\text{C}), 3, 19(55\text{ }^{\circ}\text{C}), \text{DH}=-25.5\text{ kJ mol}^{-1}, \text{DS}=-17.1\text{ J K}^{-1}\text{ mol}^{-1}$$

7,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,

[illegible]

$K = 3.45 (30.2^\circ \text{C})$, $3.34 (44^\circ \text{C})$, $\Delta H = 20.7 \text{ kJ mol}^{-1}$, $\Delta S = 31.8 \text{ J K}^{-1} \text{ mol}^{-1}$

$$R = \text{SEV}(\text{SEV} - 0), \quad \text{SEV} = (\text{RE} - 0)/\text{RM} = \text{SEV}/\text{RE} \cdot \text{MOE} = 0, \quad \text{SE} = \text{SEV} \cdot 0/\text{RE} = \text{MOE} =$$

Medium: KBr

Acetoxime,

Model	Med	Med2	Med3	Med4	Med5	Med6	Med7	Med8	Med9	Med10	Med11	Med12	Med13	Med14	Med15	Med16	Med17	Med18	Med19	Med20	Med21	Med22	Med23	Med24	Med25	Med26	Med27	Med28	Med29	Med30	Med31	Med32	Med33	Med34	Med35	Med36	Med37	Med38	Med39	Med40	Med41	Med42	Med43	Med44	Med45	Med46	Med47	Med48	Med49	Med50	Med51	Med52	Med53	Med54	Med55	Med56	Med57	Med58	Med59	Med60	Med61	Med62	Med63	Med64	Med65	Med66	Med67	Med68	Med69	Med70	Med71	Med72	Med73	Med74	Med75	Med76	Med77	Med78	Med79	Med80	Med81	Med82	Med83	Med84	Med85	Med86	Med87	Med88	Med89	Med90	Med91	Med92	Med93	Med94	Med95	Med96	Med97	Med98	Med99	Med100	Med101	Med102	Med103	Med104	Med105	Med106	Med107	Med108	Med109	Med110	Med111	Med112	Med113	Med114	Med115	Med116	Med117	Med118	Med119	Med120	Med121	Med122	Med123	Med124	Med125	Med126	Med127	Med128	Med129	Med130	Med131	Med132	Med133	Med134	Med135	Med136	Med137	Med138	Med139	Med140	Med141	Med142	Med143	Med144	Med145	Med146	Med147	Med148	Med149	Med150	Med151	Med152	Med153	Med154	Med155	Med156	Med157	Med158	Med159	Med160	Med161	Med162	Med163	Med164	Med165	Med166	Med167	Med168	Med169	Med170	Med171	Med172	Med173	Med174	Med175	Med176	Med177	Med178	Med179	Med180	Med181	Med182	Med183	Med184	Med185	Med186	Med187	Med188	Med189	Med190	Med191	Med192	Med193	Med194	Med195	Med196	Med197	Med198	Med199	Med200	Med201	Med202	Med203	Med204	Med205	Med206	Med207	Med208	Med209	Med210	Med211	Med212	Med213	Med214	Med215	Med216	Med217	Med218	Med219	Med220	Med221	Med222	Med223	Med224	Med225	Med226	Med227	Med228	Med229	Med230	Med231	Med232	Med233	Med234	Med235	Med236	Med237	Med238	Med239	Med240	Med241	Med242	Med243	Med244	Med245	Med246	Med247	Med248	Med249	Med250	Med251	Med252	Med253	Med254	Med255	Med256	Med257	Med258	Med259	Med260	Med261	Med262	Med263	Med264	Med265	Med266	Med267	Med268	Med269	Med270	Med271	Med272	Med273	Med274	Med275	Med276	Med277	Med278	Med279	Med280	Med281	Med282	Med283	Med284	Med285	Med286	Med287	Med288	Med289	Med290	Med291	Med292	Med293	Med294	Med295	Med296	Med297	Med298	Med299	Med300	Med301	Med302	Med303	Med304	Med305	Med306	Med307	Med308	Med309	Med310	Med311	Med312	Med313	Med314	Med315	Med316	Med317	Med318	Med319	Med320	Med321	Med322	Med323	Med324	Med325	Med326	Med327	Med328	Med329	Med330	Med331	Med332	Med333	Med334	Med335	Med336	Med337	Med338	Med339	Med340	Med341	Med342	Med343	Med344	Med345	Med346	Med347	Med348	Med349	Med350	Med351	Med352	Med353	Med354	Med355	Med356	Med357	Med358	Med359	Med360	Med361	Med362	Med363	Med364	Med365	Med366	Med367	Med368	Med369	Med370	Med371	Med372	Med373	Med374	Med375	Med376	Med377	Med378	Med379	Med380	Med381	Med382	Med383	Med384	Med385	Med386	Med387	Med388	Med389	Med390	Med391	Med392	Med393	Med394	Med395	Med396	Med397	Med398	Med399	Med400	Med401	Med402	Med403	Med404	Med405	Med406	Med407	Med408	Med409	Med410	Med411	Med412	Med413	Med414	Med415	Med416	Med417	Med418	Med419
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$$K(cis-Pt(en)(S)ZrE) = 1.91$$

Medium: acetone (S) Additional methods: ^1H and ^{13}C nmr

N-Heptyl-1 = 7-aminooctanoic acid; CH₃(CH₂)₆CH(NH₂)CH₂COOH

Media	Media	Media	Media	Temp	Some	Can	Page	8	Values	Reference	Expense
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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 19780Sb (27798) 308

C3H9N L Trimethylamine CAS 75-50-3 (803)
Trimethylamine; (CH3)3N

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
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Pt++	gl	NaNO3	25°C	0.10M	U	M			1989MPa (28868)	314
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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
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Pt++	gl	NaNO3	25°C	0.10M	U	M			1989MPa (29415)	315
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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
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Pt++	nmr	non-aq	-15°C	100%	U				1986KUa (29730)	316
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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
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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; H00C.CH(SH).CH2.C00H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	gl	KCl	25°C	0.10M	C				2000CCa (30359)	318
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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
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Pt++	gl	KCl	25°C	0.10M	C				2000CCa (30433)	319
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$$K(\text{PtCl}_4 + \text{HL} = \text{PtCl}_3\text{HL} + \text{Cl}^-) = 0.51$$

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 1967Dhb (33747) 325

K(PtCl₄+HL=PtCl₃HL+Cl)=2.91

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 1967Dhb (33748) 326

K(PtCl₄+HL=PtCl₃HL+Cl)=3.31

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

Pt++ sp oth/un 25°C 2.0M U M 1967Dhc (33749) 327

K(PtBr₄+HL=PtBr₃HL+Br)=3.08

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 1967Dhb (33757) 328

K(PtCl₄+HL=PtCl₃HL+Cl)=2.65

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; C₄H₈N₂O

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

Pt++ EMF KNO₃ 25°C 1.00M U M 1973KYb (33793) 329

B₄=38.4

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 1989EBa (34032) 330

*K(PtL(DMSO)(H₂O))=-3.82

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

2-Amino-3-methylmercaptopropanoic acid; $\text{H}_2\text{N}.\text{CH}(\text{CH}_2.\text{S}.\text{CH}_3)\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	gl	NaClO4	25°C	0.10M	C				2004BSb (34105)	331
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*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)
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Diethyl sulfide; $\text{C}_2\text{H}_5.\text{S}.\text{C}_2\text{H}_5$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	nmr	non-aq	30°C	100%	U	H			1998SEa (34721)	332
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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)
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1,4,7-Triazaheptane, 2,2'-Iminobis(ethylamine), diethylenetriamine;

$\text{NH}_2.(\text{CH}_2)_2.\text{NH} .(\text{CH}_2)_2.\text{NH}_2$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	nmr	NaClO4	25°C	0.10M	M				1997Gcb (35811)	333
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*K(Pt(H2O)L)=-6.0

Medium: 10% (v/v) D2O/H2O

Pt++	gl	oth/un	35°C	0.18M	U				1987EEa (35812)	334
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*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)
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1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	gl	NaNO3	25°C	0.10M	U	M			1987MPa (36119)	335
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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)
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Pyridine, Azine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	sp	non-aq	25°C	100%	C				1997WEa (36669)	336
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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-Dimercaptobutanedioic 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-Dimercaptobutanedioic 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 Amino adipic CAS 542-32-5 (1259)

2-Aminohexanedioic acid; HOOC.CH2.CH2.CH2.CH(NH2).COOH

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

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	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	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'-Thiodipropene, 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	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	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	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	KN03	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
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Pt++	sp	NaCl	59°C	2.0M	U	T H			1967DHb (57902)	372
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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
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K(PtBr₄+HL=PtBr₃HL+Br)=2.10

Medium: KBr

C7H17N2O4PS	H2L	CAS 82611-22-1	(7392)
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Methionyl-1-aminoethylphosphonic acid;	H2L
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	gl	KNO3	25°C	0.10M	C			B2=23.14	1997LBa (58204)	374
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B(PtHLC12)=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
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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
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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)
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2-Chlorophenyl-ethene; Cl.C6H4.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	nmr	non-aq	-15°C	100%	U				1986KUa (59085)	377
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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)
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4-Chlorophenyl-ethene; Cl.C6H4.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++	nmr	non-aq	-15°C	100%	U				1986KUa (59086)	378
------	-----	--------	-------	------	---	--	--	--	-----------------	-----

$K(\text{PtA}+\text{L}=\text{PtL}+\text{A})=-0.60$

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

$K(\text{PtA}+\text{L}=\text{PtL}+\text{A})=-1.3$

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

$K(\text{PtA}+\text{L}=\text{PtL}+\text{A})=-0.49$

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

$K(\text{PtL}_2\text{Cl}_2, \text{cis to trans})=0.12$

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

$K(\text{Pt}(\text{dien})\text{L}+\text{H})=6.69$
 $K(\text{Pt}(\text{dien})\text{HL}+\text{H})=1.4$
 $K'(\text{Pt}(\text{dien})\text{H}_2\text{L}+\text{H})=0.52$

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)propanamid
ine

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

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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
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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
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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-Vinylnisole  CAS 637-69-4 (809)
4-Methoxystyrene; CH3O.C6H4.CH:CH2
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-----
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;
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pt++       sp   NaClO4 25°C 0.10M U                      1977S0a (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;
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pt++       nmr oth/un 25°C 100%  M                      19980Ra (67179) 394
                                           K(Pt(NH3)2L+Cu)=<0.6
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*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 Dipyrldylamine CAS 1202-34-2 (2428)
(2,2'-Dipyrldyl)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 absorptioin.

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

$K(\text{PtA}+\text{L})=9.61$
 $K(\text{PtA}+\text{H}+\text{L})=15.87$
 HA=2-amino-3-methylmercaptopropionic acid (S-methyl cysteine)

Pt++ cal NaCl 25°C 0.10M U H 19910Ma (71872) 407
 $\text{Keff}(\text{Pt}(\text{phen})\text{en}+\text{L})=2.34$
 Measured at pH 7-8. $\text{DH}=-11.9 \text{ kJ mol}^{-1}$, $\text{DS}=5 \text{ J K}^{-1} \text{ mol}^{-1}$.

 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		
								$*K(\text{cis-Pt}(\text{NH}_3)_2(\text{H}_2\text{O})\text{HL})=-5.28$ $*K(\text{cis-Pt}(\text{NH}_3)_2(\text{OH})\text{HL})=-1.7$ $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{H}_2\text{O})\text{HL})=-4.8$ $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{OH})\text{HL})=-1.7$ $*K(\text{cis-Pt}(\text{NH}_3)_2(\text{HL})\text{Cl})=-1.7$, $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{HL})\text{Cl})=-1.7$.		

								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		
								$*K(\text{cis-Pt}(\text{NH}_3)_2(\text{H}_2\text{O})\text{HL})=-4.91$ $*K(\text{cis-Pt}(\text{NH}_3)_2(\text{OH})\text{HL})=-8.28$ $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{H}_2\text{O})\text{HL})=-5.6$ $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{OH})\text{HL})=-8.42$ $*K(\text{cis-Pt}(\text{NH}_3)_2(\text{HL})\text{Cl})=-7.84$, $*K(\text{trans-Pt}(\text{NH}_3)_2(\text{HL})\text{Cl})=-8.24$.		

Pt++ gl NaNO3 25°C 0.10M M 1998SSd (71897) 410
 $K(\text{Pt}(\text{HL})\text{A}+\text{Mg})=1.21$
 $K(\text{Pt}(\text{HL})\text{A}+\text{Cu})=2.60$
 $K(\text{Pt}(\text{HL})\text{A}+\text{Zn})=1.81$
 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		1977S0a (71948) 411		
								$\text{Keff}(\text{Pt}(\text{NH}_3)_2+\text{L})=3.6$ at pH 6.5		

								C10H13N5O5 HL Guanosine CAS 118-00-3 (1402) 2-Aminopurin-6-one-9-ribose;		

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Pt++ sp NaClO4 25°C 0.10M U M 1977S0a (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 1998S0c (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, Sequestic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pt++	gl	KN03	25°C	1.0M	U				1973S0a (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	KN03	25°C	1.0M	U				1973S0a (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	KN03	25°C	1.0M	U				1973S0a (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	KN03	25°C	1.0M	U				1973S0a (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	KN03	25°C	0.10M	U				1995CCa (74913)	422
								K1=8.82 B2=16.90 B(PtH-1L)=1.41 B(PtH-2L)=-9.96 B(PtH-1L2)=8.60 B(PtH-2L2)=-0.48		

Pt++	gl	KN03	25°C	0.10M	C				1992Nca (74914)	423
								K1=8.815 B2=16.926 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
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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.

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C11H8O3          H2L                      CAS 92-70-6 (1130)
2-Hydroxy-3-naphthoic acid (3-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=12.53 B2=24.31  1993Rab (77131) 431
Medium: 40% v/v EtOH/H2O, 0.1 M NaClO4.

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C12H13N3          L                      CAS 1539-42-0 (932)
bis-((2-Pyridyl)methyl)-amine (Di-2-picolylamine); C5H4N.CH2NHCH2.C5H4N
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Pt++       gl  oth/un 25°C 0.20M M           2002Pab (81290) 432

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*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.

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C12H26N+          (3963)
N,N,N-Tripropylallylammonium cation;

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L+

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pt++       sp  NaCl   60°C 2.0M U   M           1967Dhb (83718) 433

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K(PtCl4+L=PtCl3L+Cl)=2.12

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C13H22N4O3S          L   Ranitidine          CAS 66357-35-5 (7144)
N(2-(5-Dimethylaminomethyl)-2-furanylmethyl)thioethyl-N-methyl-2-nitro-1-ethenedia
mine;
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Pt++       gl  KNO3   25°C 0.10M U           K1=6.15 B2=10.55  1995CCa (86333) 434

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B(PtH-1L)=-1.26

B(PtH-2L)=-10.01

B(PtH-1L2)=2.76

B(PtH-2L2)=-5.72

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C14H14S          L                      CAS 26898-12-4 (5030)
Dibenzylsulfide; C6H5.CH2.S.CH2.C6H5
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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-Heptaazacycloheptacosane;									

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
Pt++	ISE	NaClO4	25°C	1.0M	U			K1=11.5 B2=22.60 K2=10.5 (trans isomer)	1972CBa (97111)	441

C18H15P		L						CAS 603-35-0	(621)	
Triphenylphosphine; (C6H5)3P										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Pt++	ISE	KN03	25°C	0.10M	U				1973GGe (97146)	442
K(trans-Pt(NH3)2LC1+H2O=Pt(NH3)2L(H2O)+C1)=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(PtLC12+I=PtLC1I+Cl)=0.23										
k(PtLC12+Br=PtLC1Br+Cl)=0.241										
K(PtLC1Br+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 Experiments recorded for
 from SC-Database on Saturday, 01 January, 2000 at 00:53:24