

SC-Database

Software version = 5.81 Data version = 4.62
 Experiment list contains 4226 experiments for
 (no ligands specified)
 Metal : Cd++
 (no references specified)
 (no experimental details specified)

e- HL Electron (442)
 Electron;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	non-aq	25°C	100%	C	IH		E0(Cd(s)/Cd2+)=-1492 mV	1980APa (261)	1
Medium: DMSO, 1 M NH4ClO4. E0 referred to E0(aq)=0 for the Ag(s)/Ag+ elect.										
Cd++	EMF	non-aq	25°C	100%	U			K=-20.82(-615.8mV)	1974BNb (262)	2
Medium: formamide; K: CdCl2(s) + 2e=Cd(s) + 2Cl-										
Cd++	EMF	none	25°C	0.00	U	T		K=-11.88(-351.5mV)	1973CPc (263)	3
K: Cd + 2e=Cd(Hg)(saturated). K=-12.55(-346.3mV,5 C), -12.21(-348.9mV,15 C), -11.58(-353.9mV,35 C)										
Cd++	EMF	none	25°C	0.00	U	T		K=-11.89(-351.7mV)	1973CPc (264)	4
K: Cd + 2e=Cd(Hg)(saturated). K=-12.56(-346.6mV,5 C), -12.22(-349.2mV,15 C), -11.59(-354.3mV,35 C)										
Cd++	oth	alc/w	25°C	100%	U	I		K(Cd+2e=Cd(s))=-13.02(-385mV)	1972COa (265)	5
Method:Estimated data. MeOH. K=-13.35((-395mV,EtOH), -15.18(-449mV,BuOH), -11.19(-331mV,PentOH), -12.68(-375mV,acetone), -15.92(MeCN), -25.46(HCOOH)										
Cd++	EMF	non-aq	25°C	100%	U			K=-13.93(-412mV)	1971AAb (266)	6
Medium: formamide; K: Cd + 2e=Cd(s)										
Cd++	oth	none	25°C	0.0	U			K(Cd+e=Cd(I))=30.4(1.8V) K(Cd(I)+e=Cd(s))=-16.9(-1.0V)	1970NMa (267)	7
Method:Estimated data										
Cd++	EMF	oth/un	135°C	100%	U			K(Cd + Cd(s)=2Cd+)=1.4	1969APa (268)	8
Medium: (Na,K,Al)Cl										

Cd++ EMF non-aq 5°C 100% U T 1968BMD (269) 9
 K=-21.78, -601 mV
 Medium: H2NCHO. K: CdCl2(s) + 2e = Cd(s) + 2Cl-. K=-21.20, -606 mV(15 C);
 K=-20.69, -612 mV(25 C)

 Cd++ EMF oth/un 150°C 100% U 1968HPa (270) 10
 K(Cd + Cd(s)=Cd2++)=1.4
 Medium: (Na,K,Al)Cl

 Cd++ oth none 25°C 0.0 M H 1968LCd (271) 11
 K(Cd+2e=Cd(s))=-13.63, -403 mV
 DH=75.7 kJ mol-1

 Cd++ sp non-aq 350°C 100% U 1967KBa (272) 12
 K(Cd(l) + Cd++ = Cd2++)=0.23
 Medium: molten NaAlCl4

 Cd++ EMF NaClO4 25°C 3.0M U I 1967KRb (273) 13
 K((Cd+2e=Cd(s))=-13.899
 At I=2.0: K=-13.889, -410.8 mV; I=1.0: -13.903, -411.2 mV

 Cd++ EMF non-aq 25°C 100% U 1967RPe (274) 14
 K=-20.86, -616.9mV
 Medium: H2NCHO. K: CdCl2(s) + 2e = Cd(s) + 2Cl-

 Cd++ EMF none 25°C 0.0 U 1966BZa (275) 15
 K(Cd+2e=Cd(s))=-13.64, -403.5mV

 Cd++ EMF NaClO4 25°C 3.0M U I 1966KGb (276) 16
 K(Cd+2e=Cd(s))=-12.192
 I=1.0: K=-12.195, -360.7 mV

 Cd++ EMF NaClO4 25°C 3.0M U 1959SCa (277) 17
 K=-12.21(-361 mV)
 K: Cd+2e=Cd(in Hg, saturated)

 Cd++ EMF non-aq 25°C 100% U T 1954PSa (278) 18
 K=-13.79(-408mV) M units
 Medium: formamide; K(Cd + 2e=Cd(s))=-14.16(-409mV,18 C) M units

 Cd++ EMF non-aq 25°C 100% U T 1954PSa (279) 19
 K=-20.86(-617mV) M units
 Medium: formamide; K(CdCl2(s) + 2e=Cd(s) + 2Cl-)= -21.43(-619mV,18 C) M units

 AsO4--- H3L Arsenate CAS 7778-39-4 (1557)
 Arsenate;

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

 Cd++ oth oth/un 25°C 0.0 U 1990SAa (1124) 20

$$*K(\text{Cd3L2}(\text{s})+2\text{H}=3\text{Cd}+2\text{HL})=-8.97$$

Calculated from thermodynamic data.

 Cd++ sol oth/un 20°C var U 1956CHd (1125) 21
 Kso(Cd3L2)=-32.66

 AsW11039----- H7L (2468)
 alpha-Heteromonoarseno-polytungstate;

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

Cd++ gl NaNO3 25°C 1.00M U K1=4.03 1984C0a (1173) 22

 As2W17H2061----- H8L (2469)
 alpha-Heteropolydiarseno-polytungstate;

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

Cd++ gl NaNO3 25°C 1.00M U K1=4.09 1984C0a (1184) 23
 K1=4.25 (alpha2 isomer)

 BF4- HL (2497)
 Tetrafluoroborate;

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

Cd++ vlt non-aq 22°C 100% U B3=7.3 1988BEb (1191) 24

Medium: CH2Cl2

 B04H4- HL Borate CAS 10043-35-3 (991)
 Borate; B(OH)4-

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

Cd++ oth KNO3 25°C 0.70M C K1=1.42 B2=2.7 1984BEa (1293) 25
 Method: Differential pulse anodic stripping voltammetric (DPASV)

 Cd++ sol none 22°C 0.0 U 1959SHb (1294) 26
 Kso=-8.64
 B4=10.64

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

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

Cd++ cal non-aq 25°C 100% C HM 2000KYa (1591) 27
 B(Cd(phen)Br)=11.39
 B(Cd(phen)Br2)=16.49

B(Cd(phen)Br₃)=19.24
B(Cd(phen)2Br)=16.19

B(Cd(phen)2Br₂)=20.47. Medium: DMF, 0.1 M Et₄NClO₄. DH(Cd(phen)Br)=-32.0 kJ m⁻¹, DH(Cd(phen)Br₂)=-26.0, DH(Cd(phen)Br₃)=-32.0, DH(Cd(phen)2Br)=-58

Cd++ cal non-aq 25°C 100% U H K1=5.40 B2=11.0 1995KSb (1592) 28
B3=16.6
B4=19.5

Medium: N,N-Dimethylacetamide, 0.1 M Bu₄NClO₄. DH(K1)=9.9 kJ mol⁻¹, DH(B2)=13.6, DH(B3)=-5.4, DH(B4)=-24.5

Cd++ cal non-aq 25°C 100% U HM K1=9.2 B2=16.1 1992ATa (1593) 29
K3=4.5
K4=1.9

Medium: HMPA, 0.1 M Bu₄NClO₄. DH(K1)=0.6 kJ mol⁻¹, DH(K2)=-5.4, DH(K3)=-18.4, DH(K4)=-5.7. K(CdL+I)=5.1; K(CdL₂+I)=3.4; K(CdLI+L)=4.9

Cd++ vlt NaClO₄ 23°C 4.0M U K1= 1.76 B2=2.60 1992ZBa (1594) 30
B3=3.5
B4=4.22

Medium: NaClO₄-NaBr mixtures; Method: Differential-Pulse Polarography, pH 2

Cd++ vlt NaClO₄ 25°C 4.0M C M K1=1.76 B2= 2.66 1992ZBb (1595) 31
K3=3.57
K4=4.22

Method: Differential pulse polarography. B(CdClBr)=2.84, B(Cl₂Br)=3.44, B(CdClBr₂)=3.74, B(CdClBr₃)=4.28, B(CdCl₂Br₂)=3.92, B(CdCl₃Br)=3.20

Cd++ cal non-aq 25°C 100% U H K1=5.9 B2=10.5 1989IOc (1596) 32
B3=15.8
B4=18.8

Medium: DMF, 0.1 M Et₄NClO₄. DH(K1)=-6.0 kJ mol⁻¹, DH(B2)=7, DH(B3)=4.9, DH(B4)=-11.1

Cd++ oth none 25°C 0 U K1=2.15 B2=3.00 1989SAb (1597) 33
B3=3.00
B4=2.90

From published thermodynamic data.

Cd++ vlt NaClO₄ 25°C 1.0M C K1=1.56 B2= 1.99 1988MFb (1598) 34
B3=2.23
B4=2.64

Analysis of literature data, applying correction for adsorption on Hg drop

Cd++ ISE alc/w 25°C 100% M K1=6.54 B2=10.18 1988SDa (1599) 35
B4=16.08

Medium: MeOH, 0.05 M NaClO₄

Cd++ EMF alc/w 25°C 100% U T H K1=5.13 1987BCb (1600) 36
Medium: MeOH, 0.05 M Et₄NClO₄

Cd++ ISE a/c/w 25°C 100% C K1=6.54 B2=10.18 1987DWb (1601) 37
Medium: MeOH, 0.05 M NaClO4

Cd++ EMF mixed 25°C 30% U K1=1.43 B2=2.39 1987PIa (1602) 38
B3=3.15
B4=4.54
Medium: 30% DMF/H2O

Cd++ EMF NaClO4 25°C 1.00M U M 1985MCb (1603) 39
B(CdABr)=2.09
B(CdABr2)=2.80
B(CdABr3)=4.17
B(CdA2Br)=3.21
B(CdA2Br2) = 4.40, B(CdA3Br) = 4.29, measurements in LiClO4
A = methylthiourea

Cd++ vlt NaClO4 25°C 0.50M U M 1985MCb (1604) 40
B(CdABr)=2.20
B(CdABr2)=2.82
B(CdABr3)=4.45
B(CdA2Br)=3.51
B(CdA2Br2) = 4.24, B(CdA3Br) = 4.39, measurements in LiClO4
A = methylthiourea

Cd++ vlt NaClO4 25°C 2.0M C K1=1.61 B2= 2.16 1984TMe (1605) 41
B3=2.51
B4=2.94
Method: polarography.

Cd++ vlt R4N.X 25°C 2.00M U I M K1=1.9 B2=2.8 1983Mca (1606) 42
B3=3.7
B(Cd(Tu)Br)=3.0
B(Cd(AcTu)Br)=3.2
Medium: Et4NClO4; also data for 0.1, 0.2, 0.4 and 0.6 mole fraction of EtOH
and of MeOH; other ternary complexes; Tu=thiourea, AcTu=acetylthiourea

Cd++ gl NaClO4 25°C 1.00M U H K1=1.57 B2=2.26 1983NFa (1607) 43
Medium: LiClO4; For 40% ethyleneglycol/water K1=1.77; B2=2.69

Cd++ sol NaClO4 25°C 3.00M U K1=1.79 B2=2.58 1983RAa (1608) 44
B3=3.05
B4=3.902

Cd++ oth non-aq 25°C 100% C H K1=3.69 B2=6.18 1981ABc (1609) 45
B3=9.46
B4=11.29
Medium: DMSO, 0.1 M NH4ClO4. Mean values from potentiometry (amalgam) and
calorimetry. DH(B1)=-0.9; DH(B2)=14.9; DH(B3)=22.0; DH(B4)=10.6 kJ mol⁻¹

Cd++ cal non-aq 25°C 100% C IH K1=3.48 B2=5.84 1981APc (1610) 46
B3=9.00
B4=10.87

Medium: DMSO, 0.1 M NH₄ClO₄. Data also for 0.1, 1 M LiClO₄, 0.1 M Et₄NClO₄
DH(K1)=-2.8; DH(B2)=10.8; DH(B3)=17.4; DH(B4)=4.0 kJ mol⁻¹

Cd++ EMF KNO₃ 25°C 1.00M U T M K1=2.13 B2=2.83 1981MBa (1611) 47
B3=3.52
B(CdL(thiourea))=2.56
B(CdL(thiourea)₂)=4.30
B(CdL(thiourea)₃)=4.22

Data also for 20, 30, 35 and 40 C

Cd++ EMF KNO₃ 25°C 1.00M U T M 1981MBa (1612) 48
B(CdL₂(thiourea))=4.07
B(CdL₂(thiourea)₂)=5.30
B(CdL₂(thiourea)₃)=5.83
B(CdL₃(thiourea))=4.78

B(CdL₃(thiourea)₂)=5.96. Data also for 20, 30, 35 and 40 C

Cd++ ISE non-aq 25°C 100% U K1=5.00 B2=10.75 1981SSf (1613) 49
B3=14.00
B4=16.30

Medium: dimethylacetamide

Cd++ ISE oth/un 65°C var U TI K1=3.12 B2=5.84 1981ZPa (1614) 50
Medium: Ca(NO₃)₂.aNH₄NO₃.xH₂O, where a= 0.67 and x= 5.77. Data also
available for T=50 to 80 and varying a and x values.

Cd++ ISE non-aq 25°C 100% U K1=4.70 B2=9.32 1979LTa (1615) 51
B3=11.95
B4=14.23

Medium: DMF

Cd++ oth NaClO₄ 100°C 1.0M U K1=1.4 B2=1.70 19790La (1616) 52
K3=0.7
K4=-0.4

Method: "ebulliometric titration"

Cd++ ISE oth/un 160°C var U I K1=3.255 B2=6.21 1978ZGa (1617) 53
Medium: fused Ca(NO₃)₂+5.41 NH₄NO₃. Values also in mixtures+xH₂O, 50-80 C .

Cd++ vlt alc/w 25°C 20% U M K1=0.18 B2=0.30 1977MTa (1618) 54
B3=0.30
B4=0.48

Cd++ ISE non-aq 25°C 100% C H K1=2.92 B2=4.83 1976ABd (1619) 55
K3=2.75
K4=1.68

Medium: DMSO, 1 M NH₄ClO₄. DH(K1)=-3.90, DH(K2)=17, DH(K3)=2,

DH(K4)=-13 kJ mol⁻¹

Cd⁺⁺ ISE non-aq 25°C 100% C I K1=2.93 B2= 4.70 1976ABf (1620) 56
K3=2.86
K4=1.64

Medium:1 M NH₄ClO₄ in DMSO
Cd(Hg)-electrode

Cd⁺⁺ ISE NaClO₄ 25°C 3.00M U I M K1=1.80 B2=2.86 1975FCa (1621) 57
B3=3.55
B4=3.86
B(CdBr(SO₄))=2.23
B(CdBr(SO₄)₂)=2.28

B(CdBr₂(SO₄))=2.78, B(CdBr(SO₄)₃)=1.78, B(CdBr₂(SO₄)₂)=2.78, B(CdBr₃(SO₄))=3.18. Data also for I=1,2 and 3 and Cd/Zn polynuclear complexes

Cd⁺⁺ ISE NaClO₄ 25°C 3.0M U K1=1.77 B2=2.33 1974EMa (1622) 58
B3=3.33
B4=4.09

Cd⁺⁺ ISE NaClO₄ 25°C 0.50M U I K1=1.51 B2=2.26 1974FKc (1623) 59
B3=2.11

Medium: LiClO₄. K1=1.57, B2=2.26, B3=2.93(I=1); K1=1.68, B2=2.11, B3=3.00, B4=3.57(I=2); 1.95, 3.00, 4.30, 5.18(I=4). At I=0: 2.08, 3.95, 3.00, 2.65

Cd⁺⁺ vlt NaClO₄ 25°C 0.75M U K1=1.53 B2=2.00 1974MId (1624) 60
B3=2.29
B4=2.45

Cd⁺⁺ ISE NaClO₄ 25°C 1.0M U T H K1=1.56 B2=2.11 1974RAa (1625) 61
B3=2.49
B4=2.75

K1=1.66,B2=2.15,B3=2.60,B4=2.78(0 C); K1=1.53,B2=2.16,B3=2.25,B4=2.89(35 C); K1=1.51,B2=2.18,B3=2.34,B4=2.93(50 C). Also at I=2 and I=3, 25-50 C

Cd⁺⁺ ISE none 25°C 0.0 U T H K1=2.20 B2=3.00 1974RAa (1626) 62
B3=3.23
B4=2.95

K1=2.26,B2=2.95,B3=3.45,B4=2.79(0 C); K1=2.20,B2=3.08,B3=3.00,B4=3.15(35 C); K1=2.20,B2=3.15,B3=3.08,B4=3.23(50 C). Also DH,DS at 25 C; Cd amalgam elec.

Cd⁺⁺ EMF non-aq 25°C 100% U K1=3.30 B2=5.85 1974SLa (1627) 63
B3=8.26
B4=10.70

Medium: DMSO, 1 M MClO₄(M=Li,Na)

Cd⁺⁺ ISE non-aq 25°C 100% U 1973AMa (1628) 64
B3=25.3
B4=29.8

Medium: MeCN, 0.1 M Et₄NClO₄. Method: Cd amalgam electrode

Cd++ EMF non-aq 200°C 100% U TI K1=3.72 B2=7.03 1973BBb (1629) 65
Medium: (K,Ca)NO3. K1=3.53, K2=3.14(240 C); K1=3.32, K2=2.96(280 C) Unit:
Temkin fraction. Also data in (Na,Ca)NO3. In Ca(NO3)2, 50 C: K1=5.85

Cd++ ISE oth/un 50°C ? U I K1=3.59 B2=6.77 1973BBf (1630) 66
Medium:(K,Ca)NO3-H2O at R=mol H2O/mol cation=4. K1=5.88(R=0); K1=4.01(R=2.8)
; K1=3.01,K2=2.49(R=7.5); K1=2.78,K2=2.12(R=10) Temkin. Cd amalgam electrode

Cd++ ISE R4N.X 25°C 3.0M U M 1973FDc (1631) 67
K(CdA+L)=6.44
K(CdAL+L)=6.71
K(CdAL2+H+L)=13.0
K(CdB+L)=10.06

Medium: NH4NO3. H2A=iminodiethanoic acid; H3B=NTA. Method: CdHg electrode.
K(CdBL+L)=10.26, K((CdBL2+H+L)=14.5

Cd++ kin NaClO4 25°C 0.10M U I K1=1.93 1973HHb (1632) 68
K1=1.58(I=1)

Cd++ EMF none 25°C 0.0 U T K1=2.06 B2=1.95 1973SPb (1633) 69
K1=2.11,K2=-0.60(5 C); K1=2.09,K2=-0.75(15 C); K1=2.12,K2=0.46(35 C)

Cd++ ISE R4N.X 40°C ? U T K1=2.75 B2=5.09 1972NGa (1634) 70
Medium: NH4NO3(H2O)2.K1=2.70,K2=2.31(55 C);K1=2.68,K2=2.27(70 C) x units.
DH(K1)=-16.8 kJ mol⁻¹. At 70 C, 1.5H2O:K1=2.78,K2=2.4. 3H2O:K1=2.58,K2=2.20

Cd++ ISE oth/un 40°C ? U K1=3.59 B2=6.74 1971BBb (1635) 71
Medium: Ca(NO3)2(H2O)4. In m units. Method: Ag electrode

Cd++ ISE non-aq 25°C 100% U K1=2.2 B2=3.3 1971SAh (1636) 72
B3=4.5
B4=5.4

Medium: formamide, 1.1 M NaNO3. Method: Cd amalgam electrode

Cd++ EMF NaClO4 ? 0.40M U K1=2.15 B2=3.75 1970DSe (1637) 73
B3=4.9
B4=5.7

Medium: HClO4

Cd++ EMF non-aq 25°C 100% U I K1=10.5 B2=11.3 1970KTc (1638) 74
B3=12.0
B4=14.0

Medium: i-propanol, 2 M LiNO3. In acetone, 2M LiNO3: K1=4.1, B2=5.5, B3=7.1,
B4=7.3

Cd++ vlt oth/un 50°C ? U K1=2.65 1970LAb (1639) 75
B3=7.32
B4=8.76

Medium: Ca(NO3)2(H2O)4. In m units

Cd++ oth oth/un 20°C var U H K1=-1.2 B2=0.20 1970MPa (1640) 76
K3=-1.0
K4=0.4

Method: Raman. DH(K1)=11.3 kJ mol⁻¹, DH(K2)=-0.42, DH(K3)=15.9, DH(K4)=-1.7;
DS(K1)=15.5 J K⁻¹ mol⁻¹, DS(K2)=25.1, DS(K3)=35.1, DS(K4)=2.9

Cd++ EMF non-aq 250°C 100% U K1=2.8 B2=5.10 1969GSe (1641) 77
Medium: (Na,K)NO₃

Cd++ vlt NaClO₄ 25°C 1.0M U 1969VPa (1642) 78
B(CdIL)=3.10
B(CdI2L)=4.80
B(CdIL2)=3.50

Cd++ vlt non-aq 145°C 100% U K1=2.81 B2=4.96 1968ILa (1643) 79
K3=1.90
K4=1.18

Medium:(Li/Na/K)NO₃ eutectic. m units

Cd++ ISE oth/un 25°C 2.0M U I K1=1.5 B2=1.9 1968KTe (1644) 80
B3=2.2
B4=2.7

Method:amalgam electrode. Medium: LiNO₃.
In MeOH, 2 M LiNO₃: K1=4.0B2=6.0,B3=6.9,B4=8.2

Cd++ ISE alc/w 25°C 96% U TI K1=6.5 B2=7.6 1968KTe (1645) 81
B3=7.9
B4=9.5

Method:amalgam electrode. Medium:96% EtOH, 2 M LiNO₃. Also 25, 50 C;75% EtOH

Cd++ ISE non-aq 119°C 100% U T K1=4.28 1967LBc (1646) 82
Medium: (Li/K)NO₃. K1=3.96(0.26 H₂O) to 3.45(1.26 H₂O). At 168 C: K1=3.91,
3.76(0.1 H₂O), x unit

Cd++ cal NaClO₄ 25°C 4.0M U H K1=1.99 B2=3.09 1967MFC (1647) 83
K3=1.16
K4=0.60

Medium:LiClO₄. DH(K1)=1.3 kJ mol⁻¹, DH(K2)=-5.0, DH(K3)=19.2, DH(K4)=8.4
DS(K1)=33.4 J K⁻¹ mol⁻¹, DS(K2)=37.6, DS(K3)=-41.8, DS(K4)=-16.7

Cd++ vlt NaClO₄ 25°C 2.0M U K1=1.60 B2=2.26 1967SGb (1648) 84
B3=2.68
B4=3.03

Cd++ vlt oth/un 50°C 100% U K1=3.59 B2=6.77 1966BAAd (1649) 85
Medium:Ca(NO₃)₂

Cd++ EMF non-aq 358°C 100% U T K1=2.81 1966BBh (1650) 86
Medium: molten KNO₃. K1=2.80 in NaNO₃(331 C); 3.18 in (Na/K)NO₃(258 C)

Cd++ ISE non-aq 240°C 100% U K1=3.43 1966BMa (1651) 87
Medium: molten (Li/Na)NO₃. x units

Cd++ cal NaClO₄ 25°C 3.0M U H K1=1.76 B2=2.34 1966GEb (1652) 88
B3=3.32
B4=3.70
DH(K1)=-4.1 kJ mol⁻¹, DH(K2)=-2.4, DH(K3)=7.2, DH(K4)=1.3
DS(K1)=19.6 J K⁻¹ mol⁻¹, DS(K2)=3.3, DS(K3)=42.6, DS(K4)=11.3

Cd++ dis NaClO₄ 30°C 1.0M U K1=1.4 B2=1.9 1965HSc (1653) 89
B3=2.2

Cd++ ISE non-aq 254°C 100% U K1=2.27 B2=4.00 1965INa (1654) 90
B3=5.33
B4=6.16
Medium: molten (Na/K)NO₃. m units

Cd++ sol non-aq 275°C 100% U T K1=2.04 1965SPa (1655) 91
Medium: (Na,K)NO₃. K1=2.00(300 C) m units

Cd++ ISE non-aq 240°C 100% U T K1=3.51 B2=6.62 1964BMa (1656) 92
Medium: molten (Li/K)NO₃. (171 C):K1=3.90, K2=3.52. Also other K:Li ratios

Cd++ ISE NaClO₄ 35°C 4.0M U T M K1=1.95 B2=3.00 1964MKe (1657) 93
B3=4.40
B4=5.1
K(K+CdL₄)=-1.0
K(Rb+CdL₄)=-0.8
Method: amalgam electrode. Medium: LiClO₄. B(Cs+CdL₄)=-0.6. Data also at 25 C

Cd++ ISE oth/un 25°C 0.0 U 1964SMd (1658) 94
Ks(CdOHBr)=-10.50(fresh)
Ks(CdOHBr)=-10.60(aged)
Ks(CdOH1.1Br0.9)=-11.25(fresh)
Ks(CdOH1.1Br0.9)=-11.40(aged)

Cd++ ix oth/un 25°C .066M U T K1=1.79 1962BDc (1659) 95
Method: cation exchange. Medium: (Ca)Br. K1=1.86(0 C), 1.76(50 C),
1.76(77 C), 1.81(98 C). At I=0 corr. K1=2.12, DH(K1)=-3.2 kJ mol⁻¹

Cd++ EMF non-aq 240°C 100% U T K1=3.18 B2=6.01 1962BLb (1660) 96
Method: Ag electrode. Medium: liquid (Na/K)NO₃. K1=3.00(300 C), 2.65(300 C)
x units

Cd++ EMF non-aq 256°C 100% U T K1=2.03 B2=3.74 1961DGb (1661) 97
K3=1.02
Method: Ag electrode. Medium: liquid (Na,K)NO₃ eu). At 274C:K1=1.98, K2=1.68
K3=0.42. At 298C: K1=1.88

Cd++ oth non-aq 263°C 100% U K1=2.0 B2=3.8 1961IBa (1662) 98
K3=0.9

By galvanostatic method. Medium: liquid (K,Na)NO3 eut.

Cd++ oth oth/un 25°C var U 1961YPa (1663) 99
B4>0.0

Method: Raman spectra.

Cd++ EMF NaClO4 25°C 5.0M U 1960FSb (1664) 100
B3=3.60 (or 3.40?)
B4=4.00

Method: Cd/Hg electrode

Cd++ nmr none ? 0.0 U K1=2.15 B2=4.15 1960HEb (1665) 101
K3=0.68

Method: NMR. I=0 corr.

Cd++ vlt non-aq ? 100% U 1960HSc (1666) 102
B4=5.95

Medium: HCONH2, 1 M NaClO4 ?

Cd++ sol non-aq 250°C 100% U T K1=1.30 B2=2.0 1958DIc (1667) 103
Medium: liquid (Na,K)NO3. K1=1.38(300 C). K2=0.7(300 C). m units

Cd++ vlt alc/w 25°C 0% U I K1=1.82 B2=2.37 1958KKb (1668) 104
Medium: MeOH/H2O, I=0 corr. K1=2.30(20%), B2=3.70(45%), B2=4.92(65%)
In EtOH: K1=2.33, B2=3.2(20%); B2=4.00(43%), B2=5.15(62%)

Cd++ vlt NaClO4 25°C 3.0M U I K1=1.65 B2=2.40 1957KEb (1669) 105
K3=0.88
K4=0.22

At I=2 M: K1=1.58, K2=0.68, K3=52, K4=0.22. I=1 M: K1=1.56, K2=0.46, K3=0.23, K4=0.41. I=0.75 M: 1.56, 0.54, 0.06, 0.37. I=0 corr.: 2.23, 0.77, -0.17, 0.10

Cd++ EMF NaClO4 25°C 4.50M U H K1=1.69 B2=2.42 1957SLa (1670) 106
K3=0.78
K4=0.49

Method: Cd/Hg electrode. DH(K1)=9.6 kJ mol⁻¹, DH(K2)=18, DH(K3)=8.4, DH(K4)=11. DS(K1)=64.4 J K⁻¹ mol⁻¹, DS(K2)=-46.4, DS(K3)=43.5, DS(K4)=46.4

Cd++ oth non-aq 300°C 100% U B2=3.46 1956ARc (1671) 107
Method: freezing point. Medium: liquid NaNO3. m units

Cd++ vlt alc/w 25°C 100% U 1956TUb (1672) 108
B3=12.73

Medium: EtOH.

Cd++ vlt oth/un 25°C 3.0M U K1=1.76 B2=2.44 1953ERa (1673) 109
K3=0.76
K4=0.53

B4=3.73

Cd++ ix none 25°C 0.0 U K1=1.0? B2=1.70 1953FRb (1674) 110
K3=0.30
K4=0.7

Cd++ ISE KNO3 20°C 1.0M U K1=1.97 B2=3.22 1953G0a (1675) 111
K3=0.24
K4=0.15
B4=3.61

Method: Cd electrode

Cd++ EMF none 25°C 0.0 U H 1952GEa (1676) 112
Method: Cd/Hg electrode. DS(K1)=29 J K-1 mol-1

Cd++ vlt oth/un 25°C var U 1951KMa (1677) 113
B3=1.7
B4=1.5
B6=ca.1.0

Cd++ vlt oth/un 25°C var U B2=2.80 1951VPa (1678) 114
B4=3.70

Cd++ sol oth/un 20°C var U 1945FEa (1679) 115
Kso(CdL0.6(OH)1.4)=-11.19

Cd++ EMF NaClO4 25°C 3.0M U K1=1.76 B2=2.34 1943LEa (1680) 116
K3=0.98
K4=0.38
B4=3.70

Cd++ EMF none 25°C 0.0 U T K1=2.15 1939BAa (1681) 117
Method: Cd/Hg electrode. I=0 corr. K=2.22(5 C), 2.19(10-20 C)

Cd++ ISE oth/un 18°C var U K1=2.17 B2=3.10 1932RGa (1682) 118
K3=0.30
K4=0.60
B4=4.00

Cd++ EMF oth/un 18°C var U B4=3.99 1930KNa (1683) 119

Method: emf with Cd electrode? Medium: KBr.

BrO3- HL Bromate (6017)
Bromate;

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

Cd++ EMF NaClO4 25°C 3.0M U K1=0.06 B2=-0.30 1943LEa (2405) 120
Method: Cd/Hg electrode

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

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

Cd++ cal NaCl 25°C 1.0M C IH 1996SMc (2576) 121
DH(B4)=-113.9 kJ mol⁻¹, DS(B4)=-105.6 J mol⁻¹ K⁻¹
In 1.0 M NaClO₄, DH(B4)=-107.9 kJ mol⁻¹, DS(B4)=-11.4 J mol⁻¹ K⁻¹

Cd++ gl NaCl 25°C 3.0M C K1=4.34 B2= 8.50 1990VHb (2577) 122
B3=12.10
B4=14.45

Cd++ ISE KNO₃ 25°C 0.10M C K1=5.76 B2=10.75 1985YWa (2578) 123
B3=15.72

Cd++ sol non-aq 25°C 100% U K1=4.7 B2=9.1 1972JSb (2579) 124
K3=3.08
Kso=-2.60

Medium: DMF, 0.1 M Et₄NClO₄

Cd++ gl oth/un 10°C 0cor U T H K1=6.22 B2=11.60 1971IJa (2580) 125
K3=4.77
K4=2.52

25 C: K1=6.01, K2=5.11, K3=4.53, K4=2.27. 40 C: K1=5.73, K2=4.90, K3=4.12,
K4=2.12. At 25 C: DH(K1)=-30.5 kJ mol⁻¹, (K2)=-23.8, (K3)=-35.8, (K4)-21.3

Cd++ gl NaClO₄ 25°C 3.0M U T K1=5.62 B2=10.8 1971PEc (2581) 126
B3=15.7
B4=19.2

Cd++ vlt non-aq 195°C 100% U K1=1.8 B2=3.9 1967ETa (2582) 127
B3=5.15

Medium: molten KSCN

Cd++ cal NaClO₄ 25°C 3.0M U H 1966GEa (2583) 128
DH(K1)=-30.9 kJ mol⁻¹, DH(K2)=-32.2, DH(K3)=-29.7, DH(K4)=-29.3;
DS(K1)=1.2 J K⁻¹ mol⁻¹, DS(K2)=-10.5, DS(K3)=-12.9, DS(K4)=-38.0

Cd++ dis NaClO₄ 30°C 0.10M U K1=5.8 B2=11.1 1965HSc (2584) 129

Cd++ EMF oth/un ? dil U 1961PJa (2585) 130
K4=3.66

Medium: K₂CdL₄ dilute; K(H+CN)=9.46 assumed

Cd++ vlt non-aq 25°C 100% U K1=2.56 B2=4.87 1961SBb (2586) 131
B3=6.87
B4=8.6

Medium: diaminoethane, 0.25 M NaNO₃

Cd++ EMF oth/un 25°C var U K1=5.18 B2=9.60 1955FLa (2587) 132
K3=4.32
K4=3.19
B4=17.11

Method: Cd electrode

Cd++ ISE NaCl04 25°C 3.0M U K1=5.48 B2=10.62 1955RRa (2588) 133
K3=4.56
K4=3.58
B4=18.76

Cd++ EMF none 25°C 0.0 U 1953SUB (2589) 134
B4=16.04

Method: Cd/Hg electrode

Cd++ ISE none 25°C 0.0 U 1950HIa (2590) 135
B4=18.24

Cd++ gl oth/un 2°C var U 1946BJa (2591) 136
K(Cd+HL=CdL+H)=-3.82
K(CdL+HL=CdL2+H)=-4.48
K(CdL2+HL=CdL3+H)=-4.30
K(CdL3+HL=CdL4+H)=-6.50

Cd++ ISE oth/un 25°C var U 1943LEa (2592) 137
B4=18.36

Cd++ ISE NaCl04 25°C 3.0M U K1=5.48 B2=10.60 1943LEa (2593) 138
K3=4.63
K4=3.55
B4=18.78

Cd++ ISE oth/un rt var U 1936FRa (2594) 139
B4=ca.18.3

Cd++ ISE oth/un 14°C var U 1932BDa (2595) 140
B4=17.6 to 19.3

Cd++ ISE oth/un 25°C var U 1931MAa (2596) 141
B3=17.73

Cd++ vlt oth/un rt var U 1929PIa (2597) 142
B3=18.9

Cd++ ISE oth/un 21°C var U 1903EUa (2598) 143
B4=16.85

C02 L Carbon dioxide CAS 124-38-9 (1759)

Carbon dioxide;

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

Cd++ oth none 25°C 0 U 1989SAb (2826) 144
K(Cd+CO2+H2O=CdHCO3+H)=-5.73
K(Cd+CO2+H2O=CdCO3+2H)=-14.06

From published thermodynamic data.

CO3-- H2L Carbonate CAS 465-79-6 (268)
Carbonate;

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

Cd++ sol KCl 25°C var M I 1993SPa (3080) 145
K(CdL(s)=Cd+L)=-12.1

Solubility product at I=0. Measured quantities: pM, pCO2(g) and pH

Cd++ gl NaClO4 25°C 3.00M C 1992NEa (3081) 146
B(1,-1,1)=-7.11

B(p,q,r); pCd+qH+rCO2(g)+rH2O=(Cd)pHq(CO2)r(H2O)r

Cd++ sol NaClO4 25°C 3.0M C 1991KHa (3082) 147
K(CdL(s)+2H=Cd+CO2(g))=6.41

Solubility constants of otavite(CdCO3)-calcite(CaCO3) solid solution form
pCd,pH and pCO2(g) measurements

Cd++ sol NaClO4 ? 0.01M U I K1=4.71 B2=6.49 1991RFa (3083) 148

Cd++ oth none 25°C 0 U 1989SAb (3084) 149
K(CdCO3(s)+2H=Cd+CO2+H2O)=6.16

From published thermodynamic data. CdCO3 phase is otavite.

Cd++ sol none 25°C 0.0 C T 1987DFa (3085) 150
Kso(CdCO3)=-11.3

CdCO3 is otavite

Cd++ oth oth/un 25°C 0.0 C H K1=4.35 1984FCa (3086) 151
K(Cd+HCO3)=2.00

K(Cd+HCO3) calc using electrostatic model. K1 from assessment of lit data.
DH(K1)=0.54 kJ mol-1, DH(Cd+HCO3)=4.2 (from DS calc by electrostat model)

Cd++ oth oth/un 25°C 0.70M C K1=3.48 B2= 6.25 1980SRa (3087) 152
K(Cd+HCO3)=0.26
K(Cd+2HCO3)=1.54

Recalculation of literature data with allowance for alkali and alkaline
earth ion pairs. Medium: synthetic seawater, 0.70 M NaCl/NaClO4.

Cd++ vlt KNO3 25°C 0.10M U K1=3.5 1976BHa (3088) 153
By differential pulse polarography

Cd++ ISE KNO3 20°C 0.01M U K1=4.02 1974GAa (3089) 154

Cd++ sol NaCl04 25°C 0.0 U I 1965GSa (3090) 155

Kso=-12.00

*Kpso=6.14

K(CdCO3(s)+H2O=Cd(OH)2(s)+CO2(g))=-7.50. In 3 M NaCl04: Kso=-11.18,

*Kpso(CdCO3(s)+2H=Cd+H2O+CO2(g))=6.47

Cd++ sol none 25°C 0.0 U 1958LGA (3091) 156

B3=6.24

Cd++ oth oth/un 25°C 0.0 U 1952LAB (3092) 157

Kso(CdCO3(s))=-11.28

From thermodynamic data

Cd++ oth none 25°C 0.0 U 1935KAa (3093) 158

Kso(CdCO3(s))=-13.74

+Kpso=-11.25

From thermodynamic data. +Kpso: CdCO3(s)+CO2(g)+H2O=Cd+2HCO3

C2N3- HL Dicyanamide CAS 504-66-5 (2917)

Dicyanamide; (NC.N.CN)-

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

Cd++ ISE non-aq 25°C 100% U K1=3.11 1981SSf (3470) 159

Medium: dimethylacetamide

C3N3O- HL (2919)

Nitrosodicyanmethanide; (ON.C(CN)2)-

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

Cd++ ISE non-aq 25°C 100% U K1=1.88 1981SSf (3475) 160

Medium: dimethylacetamide

C4N3- HL CAS 454-50-2 (2918)

Tricyanomethanide; (C(CN)3)-

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

Cd++ ISE non-aq 25°C 100% U K1=2.40 1981SSf (3478) 161

Medium: dimethylacetamide

C6N6Co--- H3L Cyanocobaltate (5470)

Hexacyanocobaltate; [Co(CN)6]---

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

Cd++ con oth/un 25°C 0.0 U K1=4.17 1964RSd (3484) 162

C6N6Fe---- H4L (2191)
Hexacyanoferrate (II); Fe(II)(CN)6----

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

Cd++ con oth/un 25°C U T 1972BMe (3542) 163

Kso=-13.4
Ks(K12Cd8L7=12K+8Cd+7L)=-121

35 C: Kso=-12.4. 45 C: Kso=-12.4, Ks=-113.3

Cd++ ISE oth/un 25°C 0.0 U 1964RPa (3543) 164

Kso(Cd2L)=-17.38
Kso(K2CdL)=-17.09

Method:amalgam electrode. Medium:0 corr

Cd++ con oth/un 25°C dil U 1958BSa (3544) 165

Kso=-15.21

Cd++ vlt oth/un 20°C dil U 1957BLb (3545) 166

Kso=-15.00

By colorimetry Kso=-14.87

Cd++ ISE none 25°C 0.0 U 1957BPb (3546) 167

Kso=-15.02

Cd++ sol oth/un 25°C var U 1956TGb (3547) 168

Kso=-16.49

C6N6Fe--- H3L Ferricyanide (2491)
Hexacyanoferrate (III); Fe(III)(CN)6---

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

Cd++ con oth/un 20°C U T H 1973BCb (3623) 169

Kso=-17.5
Kso(KCd10L7=K+10Cd+7L)=-69.0

Kso=-17.4(30 C), -17.1(40 C); Ks(KCd107)=-67.7(30 C), -65.7(40 C)

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

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

Cd++ cal non-aq 25°C 100% C HM 2000KYa (4209) 170

B(Cd(phen)Cl)=12.38
B(Cd(phen)Cl2)=17.77
B(Cd(phen)Cl3)=21.76
B(Cd(phen)2Cl)=17.14

B(Cd(phen)2Cl2)=21.60. Medium: DMF, 0.1 M Et4NC104. DH(Cd(phen)Cl)=-36.1

kJ mol^{-1} , $\text{DH}(\text{Cd}(\text{phen})\text{Cl}_2) = -36.6$, $\text{DH}(\text{Cd}(\text{phen})\text{Cl}_3) = -43.3$, $\text{DH}(\text{Cd}(\text{phen})_2\text{Cl}) = -63$

Cd++ cal non-aq 25°C 100% U H K1=6.89 B2=13.7 1995KSb (4210) 171
B3=20.3
B4=24.1

Medium: N,N-Dimethylacetamide, 0.1 M Bu₄NClO₄. $\text{DH}(K_1) = 1.9 \text{ kJ mol}^{-1}$,
 $\text{DH}(B_2) = -1$, $\text{DH}(B_3) = -22$, $\text{DH}(B_4) = -45$

Cd++ EMF NaClO₄ 25°C 1.0M C TI K1=1.36 B2= 3.07 1993VJa (4211) 172
K3=1.70

Method: Cd(Hg) electrode. Data for 1-3 M NaClO₄. At $I = 0.0$, $K_1 = 2.01$, $K_2 = 2.53$, $K_3 = 2.48$. Data for 0-50% w/w 2-PrOH/H₂O, xM NaClO₄. Data for 15-40 C.

Cd++ vlt NaClO₄ 25°C 4.0M C M K1=1.57 B2= 2.42 1992ZBb (4212) 173
K3=2.66
K4=2.05

Method: Differential pulse polarography. $B(\text{CdClBr}) = 2.84$, $B(\text{Cl}_2\text{Br}) = 3.44$,
 $B(\text{CdCl}_2\text{Br}) = 3.74$, $B(\text{CdCl}_3\text{Br}) = 4.28$, $B(\text{CdCl}_2\text{Br}_2) = 3.92$, $B(\text{CdCl}_3\text{Br}) = 3.20$

Cd++ gl NaClO₄ 25°C 4.00M U I K1=1.57 B2=2.42 1989BPb (4213) 174
B3=2.66
B4=2.0

Data with LiClO₄, NaClO₄, Mg(ClO₄)₂ and Al(ClO₄)₃ media

Cd++ cal non-aq 25°C 100% U H K1=6.9 B2=12.0 1989IOc (4214) 175
B3=17.8
B4=21.7

Medium: DMF, 0.1 M Et₄NClO₄. $\text{DH}(K_1) = -12.0 \text{ kJ mol}^{-1}$, $\text{DH}(B_2) = -4$, $\text{DH}(B_3) = -7.6$,
 $\text{DH}(B_4) = -28.6$

Cd++ oth none 25°C 0 U K1=1.98 B2=2.60 1989SAb (4215) 176
B3=2.40
B4=1.70

From published thermodynamic data.

Cd++ vlt mixed 25°C 46% U I K1=2.30 B2=5.32 1988Bmb (4216) 177
B3=6.48
B4=7.15

Medium: 46% HF. In 61%: $K_1 = 0$, $B_2 = 8.08$, $B_3 = 8.61$, $B_4 = 8.85$
In 10% HF: $K_1 = 1.62$, $B_2 = 2.23$, $B_3 = B_4 = 1.79$

Cd++ vlt NaClO₄ 25°C 4.0M C K1=1.64 B2= 2.29 1988PBb (4217) 178
B3=2.91
B4=1.83

Method: polarography. Medium pH 2.0

Cd++ ISE alc/w 25°C 100% M K1=6.26 B2=9.23 1988SDa (4218) 179
Medium: MeOH, 0.05 M NaClO₄

Cd++ ISE alc/w 25°C 100% U I K1=4.89 1987BCb (4219) 180

Medium: MeOH. In 80% MeOH, 0.05 M Et4NClO4, K=2.93

Cd++ oth none 0°C 0.0 U 1987BSb (4220) 181
B4=1.37

Calculated values

Cd++ ISE a/c/w 25°C 100% C K1=6.26 B2=9.23 1987DWb (4221) 182
Medium: MeOH, 0.05 M NaClO4

Cd++ EMF NaClO4 25°C 2.0M C K1=1.40 B2= 1.98 1985GNa (4222) 183
B3=1.69
B4=1.82

Method: Cd amalgam electrode.

Cd++ EMF NaClO4 25°C 1.00M U T HM K1=0.85 B2=2.51 1985Mca (4223) 184
B(CdClA)=2.16
B(CdClA2)=4.33
B(CdClA3)=6.25
B(CdCl2A2)=6.76

A = thiourea, stability constants also at 20, 30 35, 40 C

Cd++ ISE NaClO4 25°C 3.00M U I K1=1.29 B2=1.59 1985PBa (4224) 185
B3=1.68

Medium: Mg(ClO4)2

Cd++ vlt oth/un 25°C 0.10M U K1=1.33 B2=1.74 1984GLa (4225) 186
B3=1.53

Cd++ vlt oth/un 25°C 3.0M U K1=1.30 B2= 1.89 1984PEb (4226) 187
in MgClO4-MgCl2-HClO4;
Also for I=6.0 M K1=1.28; B2=2.39; B3=2.45

Cd++ gl NaClO4 25°C 4.50M C K1=1.32 B2=2.22 1982NBb (4227) 188
B3=2.13
B4=1.68

Cd++ ISE oth/un 65°C var C TI K1=2.42 B2=4.43 1982NNa (4228) 189
In Mg(NO3)2:H2O mixtures 1:8.5 to 1:13 and 50-80 C; also with NH4NO3

Cd++ cal non-aq 25°C 100% C H K1=4.36 B2=7.28 1981ABc (4229) 190
B3=10.74
B4=13.08

Medium: DMSO, 0.1 M NH4ClO4. Mean values from potentiometry (amalgam) and calorimetry. DH(B1)=-4.9; DH(B2)=7.5; DH(B3)=14.0; DH(B4)=-1.5 kJ mol⁻¹

Cd++ EMF KNO3 25°C 1.00M U T M K1=0.78 B2=2.48 1981MBa (4230) 191
B(CdL3(thiourea)2)=5.96. Data also for 20, 30, 35 and 40 C

Cd++ ISE non-aq 25°C 100% U K1=5.15 B2=10.18 1981SSF (4231) 192
B3=15.28

B4=18.08

Medium: dimethylacetamide

Cd++ ISE NaClO4 20°C 0.60M U I K1=0.5 B2=2.50 1981SVb (4232) 193
At I=0.70 by anodic-stripping voltammetry, K1=0.79 B2=1.99

Cd++ ISE oth/un 65°C var U TI K1=2.80 B2=5.12 1981ZPa (4233) 194
Medium: Ca(NO3)2.aNH4NO3.xH2O, where a= 0.67 and x= 5.77. Data also
available for T=50 to 80 and varying a and x values.

Cd++ vlt oth/un 25°C 1.0M C K1=1.329 B2= 1.74 1980LEa (4234) 195
B3=1.514

Method: re-analysis of published polarographic data.
Medium not stated.

Cd++ vlt oth/un 25°C var U I K1=2.67 B2=5.23 1980MRa (4235) 196
Medium: 26.5 M HF. In 22.5 M HF: K1=2.70, B2=4.54; 18 M: 2.53, 3.66; 13M:
1.85, 2.73; in 7 M HF: K1=1.70, B2=2.28; 2.5 M: 1.58, 1.81

Cd++ oth oth/un 25°C 0.70M C K1=1.51 B2= 1.95 1980SRa (4236) 197
Recalculation of literature data with allowance for alkali and alkaline
earth ion pairs. Medium: synthetic seawater, 0.70 M NaCl/NaClO4.

Cd++ vlt KCl 25°C 0.10M U K1=3.2 1979BKa (4237) 198

Cd++ ISE non-aq 25°C 100% U K1=5.20 B2=9.85 1979LTa (4238) 199
B3=14.15
B4=17.90
B5=18.51

Medium: DMF

Cd++ oth NaClO4 100°C 1.0M U K1=1.2 B2=1.70 19790La (4239) 200
K3=-0.3

Method: "ebulliometric titration"

Cd++ vlt NaClO4 25°C 1.0M C K1=1.20 B2= 1.95 1978ARb (4240) 201
Method: polarography.

Cd++ vlt NaClO4 25°C 1.0M C K1=1.34 B2= 1.75 1977HHb (4241) 202
B3=1.49

Method: differential pulse polarography. By potentiometry with
Cd/Hg electrode: K1=1.33, B2=1.69, B3=1.53.

Cd++ ISE non-aq 25°C 100% C H K1=3.23 B2=5.21 1976ABd (4242) 203
K3=2.57
K4=1.75

Medium: DMSO, 1 M NH4ClO4. DH(K1)=-6.3, DH(K2)=15, DH(K3)=1,
DH(K4)=-12.2kJ mol⁻¹

Cd++ ISE non-aq 25°C 100% C I K1=3.20 B2= 5.08 1976ABf (4243) 204

K3=2.63

K4=1.72

Medium: 1 M NH₄ClO₄ in DMSO

Cd(Hg)-electrode

Cd++ ISE oth/un 50°C ? U TI K1=3.03 B2=5.73 1976GNa (4244) 205
Medium: aqueous Cd(NO₃)₂ melt

Cd++ ISE oth/un 25°C 0.50M U I M K1=1.33 B2=1.77 1975FCa (4245) 206
B(CdCl(SO₄))=2.28
B(CdCl₂(SO₄))=2.23
B(CdCl(SO₄)₂)=2.35
B(CdCl₃(SO₄))=2.60

B(CdCl(SO₄)₃)=2.78, B(CdCl₂(SO₄)₂)=2.78. Data also for I=1,2 and 3 and Cd/Zn polynuclear complexes

Cd++ gl NaClO₄ 25°C 0.10M U M K1=0.90 B2=2.50 1975KLa (4246) 207
B3=2.10
B(CdClI)=3.50
B(CdCl₂I)=3.20

Cd++ EMF non-aq 25°C 100% U K1=6.74 B2=12.62 1974BAd (4247) 208
B3=16.6
B4=19.9

Medium: TBP

Cd++ ISE NaClO₄ 25°C 3.00M C K1=1.50 B2=2.24 1974BIa (4248) 209
B3=2.40

Cd++ ISE NaClO₄ 25°C 1.0M U K1=1.38 1974BLb (4249) 210

Cd++ ISE non-aq 25°C 100% U I K1=7.2 B2=13.9 1974BMa (4250) 211
B3=20.4
B4=25.9

Medium: LiCl in tributylphosphate, saturated with H₂O; AgCl/Cl⁻-electrode

Cd++ ISE NaClO₄ 25°C 3.0M U K1=1.59 B2=2.25 1974EMa (4251) 212
B3=2.40

Cd++ ISE NaClO₄ 25°C 3.0M U M 1974EMa (4252) 213

B(CdBrL)=4.26

B(CdBr₂L)=5.04

B(CdBr₃L)=6.44

B(CdBr₂L₂)=6.37

B(CdBr₂L₂)=6.87. B(CdIL)=4.54; B(CdI₂L)=5.22; B(CdIL₂)=6.47

B(CdIBr)=4.05; B(Cd(I₂Br))=4.08; B(CdIBr₂)=6.74; B(CdI₃Br)=8.15 plus others

Cd++ ISE NaClO₄ 25°C 4.0M U I K1=1.66 B2=2.41 1974FRc (4253) 214
B3=2.47
B4=2.3

Medium: LiClO₄. K₁=1.90, B₂=2.44, B₃=3.15(I=0); K₁=1.26, B₂=1.85(I=1); K₁=1.46, B₂=1.83, B₃=2.13(I=2). Method: Cd amalgam electrode

Cd++ ISE NaClO₄ 25°C 1.0M U I M 1974FRc (4254) 215

B(Cd(NO₃)L)=1.53
B(Cd(NO₃)₂L)=1.63
B(Cd(NO₃)₂L₂)=1.87
B(Cd(NO₃)₃L)=1.0

Medium: LiClO₄; CdHg electrode. B(Cd(NO₃)₃L₃)=2.45. At I=4, resp. values: 1.88, 1.3, 2.14, 1.2, 2.36. At I=0: 2.40, 1.63, 2.80, 0.2, 2.45

Cd++ ISE KNO₃ 20°C 0.01M U K₁=1.7 1974GAa (4255) 216

Cd++ ISE oth/un 18°C var U K₁=2.02 B₂=2.49 1974MId (4256) 217
B₃=2.79
B₄=2.96

Cd++ EMF non-aq 25°C 100% U K₁=3.30 B₂=6.00 1974SLa (4257) 218
B₃=8.59
B₄=10.85

Medium: DMSO, 1 M (Li,Na)ClO₄

Cd++ ISE non-aq 25°C 100% U 1973AMa (4258) 219

B₃=29.2
B₄=34.0

Medium: MeCN, 0.1 M Et₄NClO₄. Method: Cd amalgam electrode

Cd++ ISE R₄N.X 25°C 2.0M U I K₁=1.30 B₂=1.83 1973BMa (4259) 220
B₃=1.78

Medium: 2 M NH₄NO₃. Method: Cl and Cd ion-selective electrodes. In hexamethylphosphortriamide(50%): K₁=1.58, B₂=2.23, B₃=3.76. 70%: 1.56, 3.7, 6.3

Cd++ ISE R₄N.X 25°C 3.0M U T M 1973FDb (4260) 221

B(CdAL)=15.75
B(CdHACl₂)=18.68
B(CdH₂ACl₂)=20.44

Medium: NH₄NO₃. H₄A=EDTA. Method: Cd amalgam electrode

Cd++ ISE R₄N.X 25°C 3.0M U M 1973FDc (4261) 222

K(CdL₂A+H+L=CdHL₃A)=12.46

Medium: NH₄NO₃. H₂A=iminodiethanoic acid. Method: Cd amalgam electrode

Cd++ ISE alc/w 25°C 10% U I K₁=2.0(1) 1973FWa (4262) 223

Medium: 10% w/w MeOH/H₂O. K₁=1.93(0%), 2.1(9)(20%), 2.5(7)(40%). Method: Cd amalgam electrode

Cd++ kin NaClO₄ 25°C 0.10M U I K₁=1.59 1973HHb (4263) 224
K₁=1.34(I=1)

Cd++ EMF diox/w 35°C 20% U T H K₁=2.10 1973MMA (4264) 225

Medium: 20% w/w dioxan/H₂O. DH(K₁)=5.4 kJ mol⁻¹. K₁=2.12(40 C), 2.13(45 C)

Cd++ ISE NaClO₄ 25°C 4.0M U IH K₁=1.77 B₂=2.47 1972FKc (4265) 226
B₃=3.11
B₄=2.55

Medium: LiClO₄. K₁=1.92, B₂=2.53, B₃=2.33(I=0); K₁=1.37, B₂=1.60, B₃=1.70(I=1);
K₁=1.46, B₂=1.95, B₃=2.17, (I=2). Method: Cd amalgam electrode

Cd++ EMF R4N.X 70°C ? U TIH K₁=2.61 B₂=4.85 1972NGa (4266) 227
Medium: NH₄NO₃(H₂O)_x(x=1.5). DH(K₁)=-15.5 kJ m⁻¹(x=0); K₁=2.37, K₂=1.96(x=3,
70 C); K₁=2.53, K₂=2.06(x=2, 40 C)(x units)

Cd++ EMF non-aq 25°C 100% U 1971AAb (4267) 228
B₄=12.2
K_{so}=-6.7

Medium: formamide, m units

Cd++ EMF oth/un 40°C 100% U K₁=3.03 B₂=5.56 1971BBb (4268) 229
Medium: Ca(NO₃)₂(H₂O)₄; m units

Cd++ EMF non-aq 25°C 100% U B₂=11.40 1971DTb (4269) 230
Medium: SeOCl₂, 0.5 M Et₄NClO₄

Cd++ EMF NaClO₄ 25°C 3.0M U K₁=1.48 B₂=2.22 1971FCb (4270) 231
B₃=2.43
B₄=2.24

Cd++ ISE non-aq 25°C 100% U K₁=1.09 B₂=1.61 1971SAh (4271) 232
Medium: formamide, 1.1 M NaNO₃. Method: Cd amalgam electrode

Cd++ ix oth/un 230°C 100% U K₁=1.51 B₂=2.79 1970LIb (4272) 233
B₃=4.46

Medium: molten (Na,K)NO₃; m units

Cd++ ISE none 25°C 0.0 U I K₁=1.93 B₂=2.36 1970RSa (4273) 234
B₃=2.09
B₄=-1.28

data also at 0.1 < I < 4.5. Method: Cd amalgam electrode

Cd++ vlt alc/w 27°C 20% U I K₁=1.61 B₂=2.10 1969MAb (4274) 235
B₃=2.14
B₄=2.74

Medium: 20% v/v EtOH/H₂O, 2 M LiClO₄. K₁=1.38, B₂=1.94, B₃=1.0, B₄=1.94(0%);
K₁=1.85, B₂=2.39, B₃=2.74, B₄=3.80(40%); K₁=2.74, B₂=3.51, B₃=4.34, B₄=7.47(80%)

Cd++ ISE NaClO₄ 25°C 3.0M U K₁=1.57 B₂=2.26 1969MMc (4275) 236
B₃=2.37

Method: Cd amalgam electrode

Cd++ EMF none 25°C 0.0 U T H K₁=1.97 B₂=2.51 1969SPa (4276) 237

DH(K1)=3 kJ mol⁻¹, DH(K2)=6. K1=1.94, K2=0.46(5 C); K1=1.96, K2=0.47(15 C);
K1=2.00, K2=0.62(35 C)

Cd++ cal NaClO4 25°C 2.0M U IH 1968GJc (4277) 238
DH(K1)=0.0, DH(K2)=1.4, DH(K3)=8.1 kJ mol⁻¹; DS(K1)=27.2, DS(K2)=15.1, DS3=23.8
J K⁻¹ mol⁻¹. At I=1: DH1=0.54, DH2=2.05, DH3=7.52; DS1=27.6, DS2=15.1, DS3=18.0

Cd++ vlt non-aq 145°C 100% U K1=2.19 B2=3.7 1968ILa (4278) 239
B3=4.3

Medium: (Li/Na/K)NO₃ eutectic. m units

Cd++ oth none 25°C 0.0 U K1=1.96 1968PNa (4279) 240
Method: partial pressure of H₂O

Cd++ ISE oth/un 45°C 0.0 U T K1=2.06 1968PRd (4280) 241
Method: amalgam electrode. K1=1.96(15 C), 1.97(25 C), 2.00(35 C)

Cd++ oth oth/un 23°C var U K2=1 1968SCc (4281) 242
K3=0

Method: electrical migration or transference number. Medium: LiCl var

Cd++ sol non-aq 290°C 100% U T K1=2.81 1967FBa (4282) 243
Medium: (Li/K)NO₃. K1=2.92(250 C), 2.85(270 C). Also K1=2.83(260 C), 2.82(270 C)
2.76(290 C) in liquid LiNO₃. K1 for intermediate Li:K ratio, x units

Cd++ oth oth/un 25°C 0.0 U H K1=2.00 B2=2.70 1967HEb (4283) 244
Method: from thermodynamic data. DH(K1)=2.8 kJ mol⁻¹, DS=47.7 J K⁻¹ mol⁻¹,
DCp1=19, DH(K2)=2.3, DS=21.3, DCp2=9

Cd++ cal NaClO4 25°C 4.0M U H K1=1.77 B2=2.57 1967MFa (4284) 245
K3=0.64
K4=-0.2

Medium: LiClO₄. DH(K1)=-2.5 kJ mol⁻¹, DH(K2)=-2.9, DH(K3)=-5.0, DH(K4)=-0.42

Cd++ vlt R4N.X 40°C ? U K1=2.50 1966BAd (4285) 246
Medium: NH₄NO₃(H₂O)₂

Cd++ ISE non-aq 425°C 100% U K1=3.25 B2=6.12 1966BMe (4286) 247
B(Cd2L)=5.8

Method: amalgam electrode. Medium: (Li/K)NO₃ eutectic

Cd++ cal NaClO4 25°C 3.0M U H K1=1.59 B2=3.82 1966GEB (4287) 248
K3=2.42

DH(K1)=-0.4 kJ mol⁻¹, DS=28.8 J K⁻¹ mol⁻¹; DH(K2)=0.1, DS=12.5; DH(K3)=7.73,
DS=29.3

Cd++ oth none 0°C 0.0 U K1=1.9 1966HPa (4288) 249
Method: freezing point

Cd++ vlt NaClO4 27°C 4.16M U I K1=1.60 B2=2.49 1966MAe (4289) 250

B3=2.91

At I=3.03:K1=1.49, B2=2.13, B3=2.42. I=0.76:K1=1.46, B2=1.83, B3=1.96
also values for I=1.52, 2.27 and 3.79

Cd++ vlt NaClO4 25°C 2.0M U K1=1.36 B2=1.64 1966SGa (4290) 251
B3=1.76

Cd++ oth oth/un 30°C 0.0 U TI K1=1.15 1965HAc (4291) 252
Method:amalgam electrode. In EtOH/H2O:K1=1.4(30% EtOH),2.3(60%),3.15(90%),
3.2(100%). 25-35 C

Cd++ dis NaClO4 30°C 1.0M U K1=1.2 B2=1.8 1965HSc (4292) 253

Cd++ ISE non-aq 254°C 100% U K1=1.90 B2=3.28 1965INa (4293) 254
B3=4.26

Medium:(Na/K)NO3

Cd++ vlt NaClO4 25°C 3.0M U K1=1.46 B2=2.24 1965MAd (4294) 255
B3=2.31
B4=1.65

Cd++ vlt mixed ? ? U K1=1.53 B2=1.32 1965MAd (4295) 256
Also anion exchange. Medium: 80% i-PrOH, 0.4 M HClO4

Cd++ vlt oth/un 25°C var U 1965SVa (4296) 257
B3=1.5

Medium: LiNO3. m units. I=1.5 to 8

Cd++ EMF non-aq 200°C 100% U T K1=3.08 B2=5.81 1964BMa (4297) 258
Medium:(Li/K)NO3. K1=3.27(160 C),3.18(180 C); K2=2.95(160 C),2.85(180 C)
x units

Cd++ ISE NaClO4 25°C 2.50M U 1964BMc (4298) 259
B3=3.38

Method:amalgam electrode. Medium:Ca(ClO4)2

Cd++ ISE R4N.X 40°C ? U K1=2.53 B2=4.41 1964HBa (4299) 260
K(CdL+Cd) < 1.0

Medium:NH4NO3(H2O)2. By amalgam electrode:K1=2.50 units: mol/mol NH4NO3

Cd++ oth non-aq 35°C 100% U T 1964VTa (4300) 261
K4=-0.2

Method:ultrasonic absorption. Medium:HCl. At 15 C:K4=0.3.DV4=38 ml, DV3=4 ml

Cd++ vlt non-aq 240°C 100% U T K1=1.58 1963DGd (4301) 262
Medium: liquid (K/Na)NO3. K1=0.74(280 C), K1=1.95(240 C, Cd elect.) m units

Cd++ ix non-aq 160°C 100% U K1=2.92 B2=3.36 1963LRb (4302) 263
B3=5.08
B4=5.78

Method:cation exchange. Medium: (Li/K)NO3 eutectic

Cd++ ISE NaClO4 25°C 3.0M U K1=1.58 B2=2.23 1963MNe (4303) 264
B3=2.35
K(Na+CdL4)=-0.30
K(K+CdL4)=-0.13

In 4 M LiClO4 K1=1.77, B2=2.56, B3=3.19, B4=2.54, K(Rb+CdCl4)=0.26,
K(Cs+CdL4)=0.35 plus others

Cd++ ISE NaClO4 15°C 4.0M U T M K1=1.76 B2=2.60 1963MNe (4304) 265
B3=3.17
B4=2.53

Medium: LiClO4. At 35 C: K1=1.76, B2=2.62, B3=3.21, B4=2.55
K(NH4+CdL4)=0.18(15 C), 0.04(25 C), 0.10(35 C). DH=-23 kJ mol⁻¹

Cd++ ISE none 25°C 0.0 U K1=2.43 B2=3.07 1962APa (4305) 266

Cd++ ix oth/un 25°C .066M U TIH K1=1.62 1962BDc (4306) 267

Medium: CaCl2. K1=1.53(0 C), 1.68(50 C), 1.73(77 C), 1.78(98 C)
I=0 corr., 25 C: K1=1.98, DH(K1)=4.6 kJ mol⁻¹

Cd++ ISE R4N.X 40°C var U I K1=1.49 1962BHa (4307) 268

Method:amalgam electrode. Medium:NH4NO3(H2O)2. In H2O=4: K1=1.31; H2O=6:
K1=1.24. m units

Cd++ vlt NaClO4 25°C 2.0M U K1=0.90 1962BSc (4308) 269

Cd++ sol non-aq 275°C 100% U T K1=1.72 1962SIc (4309) 270

Medium: liquid (Na/K)NO3. K1=1.65(300 C), 1.52(325 C), m units

Cd++ vlt NaClO4 ? 1.50M U K1=1.06 1962TCa (4310) 271

Cd++ oth non-aq 263°C 100% U K1=2.0 B2=2.85 1961IBa (4311) 272
K3=1.54

Medium: liquid Na/K)NO3. Method: galvanostatic

Cd++ vlt non-aq 180°C 100% U K1=2.3 B2=3.48 1960COd (4312) 273

K3=1.6
K4=0.7

Medium: liquid (Li/K)NO3(l). K1=2.95 in x units

Cd++ ISE NaClO4 25°C 5.0M U T 1960FSb (4313) 274

B3=2.60

Method: Cd/Hg electrode. B3=2.25(50 C)

Cd++ con alc/w 20°C 100% U T K2=4.65 1960GDa (4314) 275

Medium: EtOH, I=0 corr. K1=3.30(-70 C), 3.67(-40 C), 4.12(-20 C), 4.58(0 C)

Cd++ vlt non-aq ? 100% U 1960HSa (4315) 276

B4=5.56

Medium: liquid HCONH₂, 0.64 M NaClO₄?

Cd++ vlt oth/un 25°C 2.0M U I K1=1.3 B2=1.6 1960TZA (4316) 277
B3=1.5

Medium: LiNO₃. K1=1.9(I=0.01). In MeOH, 2 M LiNO₃: K1=4.0, B2=6.2, B3=6.1
Also data in EtOH and MeOH/H₂O, EtOH/H₂O mixtures

Cd++ sol non-aq 275°C 100% U T K1=1.6 1959DLA (4317) 278
Medium: liquid LiClO₄, K1=1.6(300 C), m units

Cd++ ISE NaCl 25°C var U I K1=1.76 B2=2.82 1959FSb (4318) 279
K3=-0.33
K4=-0.66

Method: Cd/Hg electorde. In LiCl: K1=1.92, K2=0.89, K3=-0.70. Also in KCl,
NH₄Cl. In RbCl: K1=2.69, K2=0.00, K3=0.09, K4=0.13, K5=-1.91, K6=1.25

Cd++ ix none 17°C 0.0 U K1=1.95 B2=2.50 1959MAB (4319) 280
K3=-0.15
K4=-0.70
K(H+CdCl₃)=0.00

Cd++ sol none 25°C 0.0 U 1958ASc (4320) 281
Kso(CdL0.8(OH)1.2)=-12.10

I=0 corr. Kso(CdL(OH))=-10.70, Kso(CdL1.25(OH)0.75)=-8.89

Cd++ sol non-aq 250°C 100% U T K1=1.30 B2=2.00 1958DlC (4321) 282
Medium: liquid (Na/K)NO₃. K1=1.38, K2=0.7(300 C), m units

Cd++ vlt alc/w 25°C 20% U I K1=1.96 1958KKb (4322) 283

Medium: 20% MeOH, I=0 corr. K1=1.54(0%), 2.23(45%), 3.06(65%)

In 20% EtOH: K1=2.00; 2.35(45%), 24.15(65%)

Cd++ ISE none 25°C 0.0 U K1=1.95 1958TFa (4323) 284

Cd++ vlt NaClO₄ 25°C 2.0M U K1=1.42 B2=1.92 1957KLa (4324) 285
K3=-0.16

Cd++ ISE NaClO₄ 25°C 4.50M U H K1=1.32 B2=2.22 1957SLa (4325) 286
K3=0.09
K4=-0.45

Method: Cd/Hg electrode. DH(K1)=0 kJ mol⁻¹, DS=26 J K⁻¹ mol⁻¹; DH(K2)=-1.3,
DS=13; DH(K3)=11, DS=38; DH(K4)=12, DS=32

Cd++ vlt KNO₃ 25°C 0.10M U K1=1.70 1957TSc (4326) 287

Cd++ oth non-aq 300°C 100% U K1=2.28 B2=2.51 1956ARc (4327) 288
B4=3.15

Method: freezing point, medium: liquid NaNO₃, m units

Cd++ vlt alc/w 25°C 100% U 1956TUb (4328) 289

B3=12.41

Medium: EtOH

Cd++ vlt none 25°C 0.0 U I K1=2.30 1956TUc (4329) 290
I=0 corr. Also K1 in dioxan/H2O mixtures

Cd++ EMF non-aq 18°C 100% U Kso=-7.3 1954PSa (4330) 291

Medium: formamide, 18-25 C

Cd++ ISE NaClO4 25°C 3.0M U T H K1=1.54 B2=2.20 1953BDa (4331) 292
K3=0.09
DH(K1)=-0.2 kJ mol⁻¹, DS=29 J K⁻¹ mol⁻¹; , DH(K2)=2.9, DS=22; DH(K3)=9.2, DS=33
At 0 C: K1=1.55, K2=0.52, K3=0.40; 45 C: 1.54, 0.72, 0.15. Also at I=0 corr.

Cd++ ISE none 25°C 0.0 U T H K1=2.00 B2=2.70 1953BDa (4332) 293
K3=-0.59
I=0 corr. DH(K1)=2.5 kJ mol⁻¹, DS=47 J K⁻¹ mol⁻¹; DH(K2)=2.5, DS=22;
DH(K3)=11.1, DS=25

Cd++ vlt NaClO4 25°C 3.0M U K1=1.54 B2=2.06 1953ERa (4333) 294
K3=0.40

Cd++ ISE KNO3 20°C 2.10M U K1=1.77 B2=3.22 1953GOa (4334) 295
K3=-0.25
K4=-0.05

Cd++ sol none 25°C 0.0 U Kso(CdL0.5(OH)1.5)=-12.64 1951FRb (4335) 296
I=0 corr. Kso(CdL0.67(OH)1.33)=-12.0, Kso(CdL(OH))=-10.49 plus others

Cd++ vlt oth/un 25°C var U B3=0.8 1951KMa (4336) 297
B4=0.2
B6=ca.0

Cd++ vlt oth/un 25°C var U K1=2.19 B2=2.47 1951VPa (4337) 298
B6=2.59

Cd++ sol NaClO4 25°C 3.0M U T H K1=1.39 B2=2.18 1949KIa (4338) 299
K3=0.21
DH(K1)=2.6 kJ mol⁻¹, DS=36 J K⁻¹ mol⁻¹; DH(K2)=-7.2, DS=-8.8; DH(K3)=24.0,
DS=84.1. 0 C: K1=1.44, K2=0.81, K3=-0.37; 47.5 C: K1=1.55, K2=0.57, K3=0.34

Cd++ sol oth/un 20°C var U Ks(CdCl0.67(OH)1.33)=-11.34 1945FEa (4339) 300

Cd++ ISE NaClO4 25°C 3.0M U K1=1.59 B2=2.23 1943LEa (4340) 301
K3=0.18

Cd++ ISE none 25°C 0.0 U T H K1=1.96 1936HFa (4341) 302
Method: Cd/Mg electrode, I=0 corr. K1=1.89(0 C), 2.00(40 C). DS(K1)=55.2 J K
-1 mol-1

Cd++ ISE oth/un 18°C var U K1=2.00 B2=2.60 1932RGa (4342) 303
K3=0.10
K4=0.30

Cd++ ISE KCl 18°C var U 1930KNa (4343) 304
B4=2.93

Cd++ con none 18°C 0.0 U K1=2.00 1930RDa (4344) 305

ClO3- HL Chlorate CAS 7790-93-4 (971)
Chlorate;

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

Cd++ kin NaClO4 25°C 1.0M U K1=-0.14 1973HHb (6025) 306

Cd++ vlt NaClO4 25°C 1.0M U K1=-0.26 1956KEa (6026) 307

Cd++ EMF NaClO4 25°C 3.0M U K1=-0.30 B2=-1.22 1943LEa (6027) 308
Method: Cd/Hg electrode

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

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

Cd++ vlt non-aq 22°C 100% U 1988BEb (6136) 309
B4=9.1

Medium: CH2Cl2

Cd++ con none 20°C 0.0 U K1=1.24 ? 1963FPb (6137) 310

F- HL Fluoride CAS 7644-39-3 (201)
Fluoride;

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

Cd++ ISE NaClO4 25°C 1.00M U I K1=3.2 1990HTb (6657) 311
Using fluoride ion-selective electrode. Data at 0.01 to 3.0 M NaClO4.
B1=3.5, B2=3.6 using amalgam electrodes (1.0 M NaClO4)

Cd++ vlt oth/un 25°C 60% U K1=9.3 B2=17.10 1988BMb (6658) 312
K3=3.6

Medium: 60% w/w HF/H2O

Cd++ ISE alc/w 25°C 100% U I K1=2.82 1987BCb (6659) 313

Medium: MeOH. In 80% MeOH, 0.05 M Et4NClO4, K=1.95. In H2O, K=1.36. In 40% CH3CN, K=1.83. In 60% CH3CN, K=2.23; 80%, K=3.04; 85%, K=3.60; 90%, K=4.77

 Cd++ ISE NaClO4 25°C 3.00M C K1=0.463 1976CGc (6660) 314

Cd++ vlt NaClO4 25°C var C I K1=0.48 B2= 0.79 1975AGa (6661) 315
 B3=1.7

Method: polarography. Data for 10 and 20% EtOH/H2O. In 20% EtOH/H2O, K1=0.30, B2=2.25, B3=3.02, B4=3.76, B6=5.47.

 Cd++ cal NaClO4 25°C 1.0M C 1975VKb (6662) 316
 DH(Cd+L)=6.40 kJ/mol

For 15 C, DH1=5.98 kJ/mol; for 35 C, DH1=7.07 kJ/mol

 Cd++ ISE NaNO3 16°C 0.05M U I K1=1.11 1970B0a (6663) 317
 K1=0.54(I=0.5)

 Cd++ vlt NaClO4 30°C 1.0M U K1=0.76 B2=0.60 1969B0a (6664) 318

Cd++ vlt KNO3 140°C 100% U K1=1.15 B2=1.56 1969B0c (6665) 319
 B3=2.54

Medium: (Li,Na,K)NO3

 Cd++ cal oth/un 25°C 4.0M U H K1=1.77 B2=2.57 1967MFC (6666) 320
 K3=0.64
 K4=-0.19

DH(K1)=-2.51 kJ mol⁻¹, DS=41.8 J K⁻¹ mol⁻¹; DH(K2)=-2.9, DS=25.1; DH(K3)=-5.02, DS=29.3; DH(K4)=-0.4, DS4=-2

 Cd++ cal NaClO4 25°C 3.0M U IH K1=0.57 1966GEb (6667) 321
 DH(K1)=4.3 kJ mol⁻¹, DS=25.1 J K⁻¹ mol⁻¹. When I=1 M: K1=0.46, B2=0.53;
 DH(K1)=5.14, DS=25.9; DH(K2)=-2.93, DS=-8.4

 Cd++ dis NaClO4 30°C 1.0M U K1=0.3 B2=0.5 1965HSc (6668) 322
 B3=1.2

 Cd++ vlt NaClO4 25°C 2.0M U K1=0.81 1963MHa (6669) 323

Cd++ ISE NaClO4 25°C 3.00M U I K1=0.57 1943LEa (6670) 324
 B(Cd2F)=0.85

Method: Cd/Hg electrode. At I=1 M K1=0.46, K2=0.07

FClBrI HL (541)

Halides, comparative (for book data under ligand 80)

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

Cd++ vlt NaClO4 25°C 2.0M U M 1967SGb (7384) 325

B(CdBrI)=3.32
 B(CdBrI2)=4.51

B(CdBrI3)=5.83

B(CdBr2I)=3.75

B(CdBr2I2)=5.33, B(CdBr3I)=4.18

Cd++ EMF NaCl04 25°C 5.0M U T M 1960FSb (7385) 326

B(CdCl2Br)=3.00

B(CdClBr2)=3.62

B(CdClBr3)=4.15?

B(CdCl2I)=4.02

Method: Cd/Hg electrode. B(CdCl2I2)=4.87, B(CdClI3)=5.54 plus many others

At 50 C: B(CdCl2I)=3.90, B(CdCl2I2)=4.62, B(CdClI3)=5.32, B(CdCl3)=2.60 etc.

GeW11039----- H8L CAS 37369-86-1 (2466)

alpha-Heteromonogermanium-polytungstate;

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

Cd++ gl NaNO3 25°C 1.00M U K1=5.21 1984C0a (7465) 327

H2O L Water CAS 7732-18-5 (6115)

Water

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

Cd++ EMF oth/un 50°C ? U B2=3.30 1973BBF (7569) 328

Medium:Ca(NO3)2

Cd++ EMF KNO3 119°C ? U K1=1.28 1973BBF (7570) 329

Cd++ sol non-aq 25°C 100% U 1968GGf (7571) 330

Ks(CdCl2(s)+2H2O)=-4.36

Medium: dioxan

Cd++ sol non-aq 25°C 100% U I 1967GGb (7572) 331

Ks(CdSO4(s)+4L)=-7.45

Ks(CdSO4(s)+6L)=-10.4

Medium: acetone. In dioxan: K=-7.35(4L); -10.2(6L)

Cd++ ISE non-aq 20°C 100% U I 1964GSd (7573) 332

B5=2.26

Method: amalgam electrode. Medium: MeCN. In DMF: B6=-4.1

Cd++ vlt non-aq 18°C 100% U K1=1.08 B2=1.70 1962MGc (7574) 333

B3=2.11

B4=2.78

B5=2.90

B6=2.93

Medium:Me2CO.

Cd++ vlt alc/w 25°C 100% U I K1=-0.23 B2=0.30 1961MGa (7575) 334

B3=0.56

Medium: MeOH, 0.05 M NH₄ClO₄. Also Bn for 0.01 M and 0.1 M NH₄ClO₄.

Cd++ vlt alc/w 25°C 100% U I K1=0.28 B2=-0.06 1960MGb (7576) 335
Medium: MeOH, 0.1 M NaClO₄. In EtOH: K1=0.34, B2=-0.1

Cd++ vlt alc/w 25°C 100% U 1958VAa (7577) 336
K3=-1.53
K4=-1.67
K5=-1.70

Medium: EtOH, 0.1 M NH₄NO₃

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

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

Cd++ cal non-aq 25°C 100% U H K1=4.08 B2=9.18 1995KSb (7797) 337
B3=13.72
B4=15.4

Medium: N,N-Dimethylacetamide, 0.1 M Bu₄NClO₄. DH(K1)=23 kJ mol⁻¹,
DH(B2)=15.4, DH(B3)=11.0, DH(B4)=-7

Cd++ cal non-aq 25°C 100% U HM K1=7.3 B2=12.8 1992ATa (7798) 338
K3=2.65
Medium: HPMa, 0.1 M Bu₄NClO₄. DH(K1)=14.7 kJ mol⁻¹, DH(K2)=-4.9, DH(K3)=-12.1,
K(CdBr+L)=5.1; K(CdBr₂+L)=3.4; K(CdLBr+Br)=4.9

Cd++ vlt oth/un 25°C 4.0M U 1992ZBa (7799) 339
B4=7.16

Medium: NaClO₄-NaI mixtures. By Square-wave Voltammetry at pH 3

Cd++ cal non-aq 25°C 100% U H K1=4.5 B2=8.0 1989IOc (7800) 340
B3=12.6
B4=14.6

Medium: DMF, 0.1 M Et₄NClO₄. DH(K1)=1.3 kJ mol⁻¹, DH(B2)=23, DH(B3)=18.2,
DH(B4)=6.6

Cd++ oth none 25°C 0 U K1=2.28 B2=3.92 1989SAb (7801) 341
B3=5.00
B4=6.00

From published thermodynamic data.

Cd++ ISE non-aq 25°C 100% C K1=8.49 B2=17.40 1988CCd (7802) 342
B3=25.47
K4=5.71

Medium: propylene carbonate

Cd++ cal non-aq 30°C 100% U H 1988GKa (7803) 343
K4=3.50

Medium: CH₃CN. DH(K₄)=-26.6 kJ mol⁻¹; DS(K₄)=-21 J K⁻¹ mol⁻¹

Cd++ vlt NaClO₄ 25°C 1.0M C K1=1.76 B2= 2.86 1988MFb (7804) 344
B3=4.37
B4=5.78

Analysis of literature data, applying correction for adsorption on Hg drop

Cd++ ISE alc/w 25°C 100% M K1=6.89 B2=11.29 1988SDa (7805) 345
K3=3.04
K4=2.34

Cd++ ISE alc/w 25°C 100% C K1=6.89 B2=11.29 1987DWb (7806) 346
Medium: MeOH, 0.05 M NaClO₄

Cd++ vlt NaClO₄ 25°C 2.0M C M K1=1.92 B2= 2.98 1984TMe (7807) 347
B3=4.57
B4=5.85
B(CdBrI)=2.66
B(CdBrI₂)=3.51

Method: polarography. B(CdBrI₃)=4.33, B(CdBr₃I)=5.78

Cd++ gl oth/un 25°C 1.00M U H K1=1.72 B2=2.62 1983NFa (7808) 348
In LiClO₄; For 40% ethylene glycol/water K1=1.91; B2=2.90

Cd++ oth non-aq 25°C 100% C H K1=2.57 B2=4.37 1981ABc (7809) 349
B3=7.20
B4=8.33

Medium: DMSO, 0.1 M NH₄ClO₄. Mean values from potentiometry (amalgam) and calorimetry. DH(B₁)=5.2; DH(B₂)=26.8; DH(B₃)=33.3; DH(B₄)=28.7 kJ mol⁻¹

Cd++ EMF KNO₃ 25°C 1.00M U T M K1=2.78 B2=3.69 1981MBa (7810) 350
B3=4.08
B4=5.17
B5=5.99
B6=6.99

B(CdL(thiourea))=3.99, B(CdL(thiourea)₂)=4.99, B(CdL(thiourea)₃)=5.82

Data also for 20, 30, 35 and 45 C

Cd++ EMF KNO₃ 25°C 1.00M U T M 1981MBa (7811) 351
B(CdL₂(thiourea))=4.91
B(CdL₂(thiourea)₂)=5.69
B(CdL₂(thiourea)₃)=6.60
B(CdL₃(thiourea))=6.12

B(CdL₃(thiourea)₂)=6.95, B(CdL₃(thiourea)₃)=6.99, B(CdL₄(thiourea))=6.30,
B(CdL₄(thiourea)₂)=6.77, B(CdL₅(thiourea))=7.29. Data at other Temps.

Cd++ ISE non-aq 25°C 100% U K1=3.74 B2=8.00 1981SSf (7812) 352
B3=12.58
B4=14.30

Medium: dimethylacetamide

Cd++ ISE non-aq 25°C 100% U K1=3.95 B2=7.78 1979LTa (7813) 353
B3=11.95
B4=14.67

Medium: DMF

Cd++ oth NaClO4 100°C 1.0M U K1=1.3 B2=1.90 19790La (7814) 354
K3=1.4
K4=0.3

Method: "ebulliometric titration"

Cd++ ISE oth/un 25°C 0.0 U K1=2.42 B2=3.15 1978LPa (7815) 355
B3=5.05
B4=5.89

Medium: CdI2/KI, 0.003-0.065 mol/kg. Cd/Hg electrode

Cd++ vlt alc/w 25°C 20% U M K1=0.30 B2=0.57 1977MTa (7816) 356
B3=0.70
B4=0.82

Cd++ ISE non-aq 25°C 100% C H K1=2.18 B2=3.58 1976ABd (7817) 357
K3=2.93
K4=1.17

Medium: DMSO, 1 M NH4ClO4. DH(K1)= 2.40, DH(K2)=27, DH(K3)=-5,
DH(K4)=-9.5 kJ mol⁻¹

Cd++ ISE non-aq 25°C 100% C I K1=2.19 B2= 3.61 1976ABf (7818) 358
K3=2.90
K4=1.18

Medium: 1 M NH4ClO4 in DMSO
Cd(Hg)-electrode

Cd++ ISE mixed 20°C 19% U K1=2.66 B2=4.11 1975BEa (7819) 359
B3=5.78
B4=6.82

Medium: 19% DMF/H2O

Cd++ gl NaClO4 25°C 0.10M U M K1=2.20 B2=3.72 1975KLa (7820) 360
B3=4.80
B4=5.45
B(CdClI2)=4.50

Cd++ ISE NaClO4 25°C 3.0M U K1=2.08 B2=3.09 1974EMa (7821) 361
B3=5.51
B4=6.20

Cd++ ISE NaClO4 25°C 0.50M U I K1=1.82 B2=3.15 1974FKc (7822) 362
B3=4.30
B4=5.32

Medium: LiClO4. K1=1.91, B2=3.34, B3=4.65, B4=5.86(I=1); K1=2.00, B2=3.76,

B3=5.00, B4=5.81(I=2). Method: Cd amalgam electrode

Cd++ ISE NaClO4 25°C 3.0M U TIH K1=2.20 B2=3.70 1974FKc (7823) 363
B3=6.40
B4=7.20

medium:LiClO4;K1=2.40,B2=4.11,B3=6.04,B4=8.20(I=4);K1=2.40,B2=4.08,B3=5.11,
B4=5.10(0 corr). DH(K1)=-8 kJ mol⁻¹, DH(B2)=-20, DH(B3)=-25, DH(B4)=-42

Cd++ vlt KNO3 25°C 0.10M U K1=2.30 B2=3.43 1974MMd (7824) 364
B3=4.38
B4=5.20

Cd++ EMF non-aq 25°C 100% U K1=2.80 B2=5.00 1974SLa (7825) 365
B3=7.11
B4=8.15

Medium: DMSO, 1 M (M)ClO4(M=Li,Na)

Cd++ oth oth/un ? var U I M 1974YMc (7826) 366
K(CdL4+Cl=CdL3Cl+L)=-0.40
K(CdBr4+L=CdBr3L+Br)=0.76
K(CdL4+CN⁻=CdL3CN+L)=1.48

In N,N-dimethylacetanilide: K(CdBr4+L=CdBr3L+Br)=-0.06; in DMF, K=0.10,
in MeOH, K=0.66. Method: Raman

Cd++ oth NaClO4 ? 1.63M U M 1974YMc (7827) 367
K(CdBr4+L=CdBr3L+Br)=0.72
K(CdBr3L+L=CdBr2L2+Br)=0.93
K(CdBr2L2+L=CdBrL3+Br)=0.70
K(CdBrL3+L=CdL4+Br)=-0.35

Medium: LiClO4. Method: Raman

Cd++ ISE non-aq 25°C 100% U 1973AMa (7828) 368
B3=22.4
B4=26.5

Medium: MeCN, 0.1 M Et4NClO4. CdHg electrode

Cd++ ISE R4N.X 25°C 3.0M U M 1973FDc (7829) 369
K(CdA+I)=6.68
K(CdAI+I)=7.45
K(CdAI2+H+I)=13.9
K(CdB+I)=10.63

Medium: NH4NO3. H2A=iminodiethanoic acid, H3B=H3A. K(CdBI+I)=11.13,
K(CdBI2+H+I)=16.6. CdHg electrode

Cd++ vlt non-aq 25°C 100% U 1972MAc (7830) 370
B4=26.2

Medium: MeCN, 0.1 M Et4NClO4

Cd++ ix NaNO3 ? 0.50M U K1=1.72 1971KEb (7831) 371

Cd++ ISE non-aq 25°C 100% U K1=2.25 B2=3.80 1971SAh (7832) 372
B3=4.90
B4=6.69
B5=7.15

Medium: formamide(H₂NCHO), 1.1 M NaNO₃. Method: Cd amalgam electrode

Cd++ EMF NaClO₄ 25°C 0.40M U K1=2.03 B2=3.51 1970DSe (7833) 373
B3=4.81
B4=6.01

Medium: HClO₄

Cd++ EMF R4N.X 25°C 1.0M U B4=5.66 1969FDb (7834) 374

Medium: NH₄NO₃

Cd++ oth oth/un 25°C var U K1=1.3 1969JCb (7835) 375
Medium: NaI. Method: densimetry

Cd++ vlt NaClO₄ 25°C 1.0M U K1=1.87 B2=3.22 1969VPa (7836) 376
B3=4.40
B4=6.08

Cd++ ISE NaClO₄ 25°C 3.0M U I K1=2.06 B2=3.74 1968GEa (7837) 377
B3=5.18
B4=6.7

Amalgam electrode: I=2:K1=1.97, B2=2.6, B3=4.71, B4=6.04. I=1:K1=1.88,
B2=2.65, B3=4.34, B4=5.62. I=0.25:K1=1.94, B2=2.64, B3=4.32, B4=5.51

Cd++ cal NaClO₄ 25°C 3.0M U IH 1968GJc (7838) 378
DH(K1)=-9.4 kJ mol⁻¹, DH(K2)=-0.84, DH(K3)=-3.05, DH(K4)=-15.9; DS(K1)=7.9
J K⁻¹ mol⁻¹, DS(K2)=10.5, DS(K3)=30.5, DS(K4)=-22.6. Also I=2,1,0.5,0.25 M

Cd++ ISE oth/un 25°C 0.20M U K1=1.96 B2=3.29 1968MPc (7839) 379
K3=1.15
K4=1.44

Method: Cd amalgam electrode

Cd++ vlt mixed 25°C 25% U I K1=2.25 B2=3.7 1967KHf (7840) 380
B3=5.4
B4=6.8

Medium: 25% PrOH, 2M LiNO₃. In 50%:K1=2.9,B2=4,8,B3=6.7,B4=8.3;in 75%:B4=9.5

Cd++ ISE NaClO₄ 25°C 4.0M U K1=2.40 B2=4.12 1967MFb (7841) 381
K3=1.90
K4=2.18

Method:amalgam electrode. Medium: LiClO₄

Cd++ cal NaClO₄ 25°C 4.0M U H K1=2.36 B2=4.06 1967MFc (7842) 382
K3=1.97
K4=1.70

Medium: LiClO₄. DH(K₁)=9.6 kJ mol⁻¹, DH(K₂)=-9.2, DH(K₃)=33.0, DH(K₄)=11.7;
DS(K₁)=12.5 J K⁻¹ mol⁻¹, DS(K₂)=75.2, DS(K₃)=-75.2, DS(K₄)=-6.7

Cd++ ISE NaClO₄ 25°C 2.0M U I K1=1.74 B2=2.94 1967PIb (7843) 383
B3=4.30
B4=5.00

Medium: LiClO₄. In 10% MeOH:K1=1.88,B2=3.50,B3=5.09,B4=6.25. In 90% MeOH:
K1=3.40,B2=6.15,B3=9.48,B4=11.19. Also for 20,40,50,60,70,80% MeOH,2M LiClO₄

Cd++ vlt NaClO₄ 25°C 2.0M U K1=1.90 B2=3.00 1967SGb (7844) 384
B3=4.51
B4=5.92

Cd++ cal oth/un 25°C 0.0 U IH 1967VMa (7845) 385
DH(K₁)=-9.8 kJ mol⁻¹. DH(K₁)=-10.0(3 M LiNO₃), -8.44(3 M Mg(NO₃)₂),
-8.8(3 M NaClO₄), also for other I values

Cd++ cal NaClO₄ 25°C 3.0M U H K1=2.08 B2=2.78 1966GEb (7846) 386
B3=4.91
B4=6.52

DH(K₁)=-9.4 kJ mol⁻¹, DH(K₂)+DH(K₃)=-3.9, DH(K₂)=-0.8, DH(K₄)=-15.9;
DS(K₁)=8.4 J K⁻¹ mol⁻¹, DS(K₂)=10.5, DS(K₃)=30.5, DS(K₄)=-23.0

Cd++ oth oth/un 25°C var U K1=2.2 B2=3.5 1965GTa (7847) 387
Method:diffusion. Medium:CdI₂ var

Cd++ dis NaClO₄ 30°C 1.0M U K1=1.4 B2=2.7 1965HSc (7848) 388
B3=4.2

Cd++ cal NaClO₄ 25°C 2.10M U H K1=2.11 B2=2.72 1964BLb (7849) 389
B3=4.67
B4=5.08

DH(K₁)=-9.7 kJ mol⁻¹,DH(K₂)=14.4,DH(K₃)=-32.0,DH(K₄)=-6.0; DH(B₄)=-33.2;
DS(K₁)=7.9 J K⁻¹ mol⁻¹,DS(K₂)=59.8,DS(K₃)=-69.8,DS(K₄)=-12.5

Cd++ ISE oth/un 25°C 0.0 U K1=2.17 B2=3.67 1964VGb (7850) 390
B3=4.34
B4=5.35
B5=5.15

Method:amalgam electrode. Also B_n values for I=0.25 to 4.5 with LiNO₃,
NaNO₃,KNO₃,Mg(NO₃)₂NaClO₄, and empirical equations logB(I)

Cd++ EMF non-aq 240°C 100% U T K1=3.73 B2=7.07 1962BLb (7851) 391
Method: Ag electrode. Medium: liquid (Na,K)NO₃. K1=3.50, K2=3.11 (290 C)

Cd++ oth non-aq 263°C 100% U K1=2.7 B2=4.5 1961IBa (7852) 392
K3=1.7
K4=1.9

Medium: liquid (Na/K)NO₃. Method: galvanostatic

Cd++ cal NaClO4 25°C 0.30M U H 1960AMa (7853) 393
 Medium: HClO4. DH(K1)=-10 kJ mol⁻¹

Cd++ EMF NaClO4 25°C 5.0M U T 1960FSb (7854) 394
 B4=6.40
 Method: Cd/Hg electrode. B4=5.57(50 C)

Cd++ vlt non-aq ? 100% U 1960HSd (7855) 395
 B4=7.17
 Medium: HCONH2, 1 M NaClO4 ?

Cd++ vlt NaClO4 25°C 3.0M U I K1=2.2 B2=4.2 1960TMa (7856) 396
 K3=1.1
 K4=0.8
 B4=6.1
 At I=2 M LiNO3 K1=2.1, K2=1.3, K3=1.6, K4=1.0, B4=6.0. I=0 corr.: K1=2.7,
 K2=1.5, K3=1.3, B3=5.5. In 97.4% EtOH K1=6.6, K2=3.8, K3=2.9, B3=13.3

Cd++ vlt none 25°C 0.0 U K1=2.10 B2=3.43 1958KKb (7857) 397
 B3=4.49
 B4=5.41

Cd++ EMF NaClO4 25°C 4.50M U K1=2.08 B2=2.95 1957SLa (7858) 398
 K3=2.09
 K4=1.59
 Method: Cd/Hg electrode

Cd++ vlt KNO3 25°C 0.10M U K1=2.40 B2=3.66 1957TSc (7859) 399
 K3=1.0

Cd++ EMF NaNO3 25°C 3.0M U K1=1.78 B2=2.67 1956QPa (7860) 400
 K3=1.49
 K4=1.47
 B(CdL(OH))=8.8
 Method: Cd/Hg electrode

Cd++ cal oth/un 25°C var U H 1954YSa (7861) 401
 DH(K1)=-5.7 kJ mol⁻¹, DS=38 J K⁻¹ mol⁻¹

Cd++ ISE KNO3 20°C 1.60M U K1=2.96 B2=4.29 1953G0a (7862) 402
 K3=1.07
 K4=1.00
 K5=0.66

Cd++ vlt oth/un 25°C var U 1953YAA (7863) 403
 B3=4.44
 K4=0.70

Cd++ sol oth/un 25°C var U K1=3.08 1953YSa (7864) 404
 B(Cd2L)=2.50

At I=0 corr. K1=2.19

Cd++ EMF none 25°C 0.0 U H 1952GEa (7865) 405
Method: Cd/Hg electrode. DS(K1)=12 J K-1 mol-1

Cd++ cal oth/un ? var U H 1952YAA (7866) 406
DH(B4)=-45.2 kJ mol-1, DS=-33 J K-1 mol-1; DH(B3)= ca. -20

Cd++ oth oth/un 1°C 0.10M U K1=1.92 B2=3.20 1951AKa (7867) 407
K3=1.22
K4=1.66
Method:transference number. Alternatively:K1=1.98, K2=1.21, K3=1.32, K4=1.59

Cd++ vlt oth/un 25°C var U 1951KMa (7868) 408
B3=3.9
B4=4.8
B6=5.9

Cd++ vlt oth/un 25°C 1.0M U 1949SBa (7869) 409
B4=5.9
Medium:KI

Cd++ sol oth/un 20°C var U 1945FEa (7870) 410
Kso(CdL0.5(OH)1.5)=-11.36

Cd++ EMF NaClO4 25°C 3.0M U K1=2.08 B2=2.85 1941LEa (7871) 411
K3=2.15
K4=1.48

Method: Cd/Hg electrode

Cd++ EMF none 25°C 0.0 U K1=2.28 B2=3.92 1938BVA (7872) 412
K3=1.08 or K3.K4=2.18

Method: Cd/Hg electrode, I=0 corr.

Cd++ ISE oth/un 18°C var U K1=2.42 B2=3.40 1932RGA (7873) 413
K3=1.60
K4=1.15

Cd++ EMF oth/un ? var U 1930KNa (7874) 414
B4=6.37

Cd++ oth oth/un 100°C var U 1928BRA (7875) 415
K3.K4=2.22

Method: boiling point

Cd++ sp oth/un 16°C var U 1928JOa (7876) 416
B4=4.92

I03- HL Iodate CAS 7782-68-5 (1257)
Iodate;

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

Cd++ sol NaClO4 25°C 3.00M U T H K1=0.51 1983RAa (8483) 417
At 35 C K1=0.526. Also Kso=-7.42 (25 C) and -7.34 (35 C). DH(K1)=2.5 kJ
mol⁻¹; DS(K1)=18.4. DH(Kso)=13.5; DS(Kso)=-96.6.

Cd++ sol NaClO4 25°C 1.0M C K1=0.51 1981RAa (8484) 418
Kso=-7.16

Method: coulometry.

Cd++ vlt NaClO4 25°C 1.0M U K1=0.51 B2=1.52 1972BHb (8485) 419

Cd++ sol none 25°C 0.0 U 1950SAa (8486) 420
Kso(CdL2)=-7.64

MnO4- HL Permanganate CAS 13456-41-3 (5678)
Manganate(VII), Permanganate;

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

Cd++ sp NaClO4 25°C 3.0M U K1=<-0.52 1943LEa (8631) 421

NH2SO3- H2L Sulfamate CAS 5329-14-6 (452)
Sulfamate;

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

Cd++ gl NaClO4 25°C 1.00M U I K1=1.00 B2=1.90 1978NFa (8797) 422
K3=0.30

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

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

Cd++ gl NaNO3 25°C 0.10M A M 1982SSa (9052) 423
K(CdA+L) < 2.3

A=uridine-5'-triphosphate

Cd++ gl oth/un 25°C 0.10M U H K1=2.66 B2=4.75 1974DTa (9053) 424
B3=6.18
B4=7.11
B5=6.82
B6=4.40

DH(K1)=-14.6 kJ mol⁻¹; DH(B2)=-33.0; DH(B3)=-43.9; DH(B4)=-58.5;
DH(B5)=-73.2; DH(B6)=-87.8

Cd++ EMF R4N.X 25°C 3.0M U K1=2.8 B2=4.7 1974FSc (9054) 425
B3=6.1

Medium: 3 M NH₄NO₃

Cd++ gl KNO₃ 25°C 1.0M U K1=2.617 B2=4.796 1972BPa (9055) 426
B3=6.231
B4=6.973
B5=6.95

Cd++ gl NaClO₄ 25°C 1.0M U K1=3.1 B2=5.2 1971GTa (9056) 427
B3=6.5
B4=7.8
B(Cd(OH)2L)=9.85

Cd++ vlt NaClO₄ 25°C 0.30M U M 1969KTb (9057) 428
K(CdA+L)=2.14
H4A=diaminoethanetetrapropanoic acid

Cd++ EMF NaClO₄ 25°C 3.0M U M 1961FRb (9058) 429
B4=8.50
B(CdL3I)=8.07
B(CdL2I2)=7.70
B(CdLI3)=6.99

Method: Cd/Hg, B(CdI₄)=5.86

Cd++ gl R4N.X 10°C 2.0M U T H K1=2.91 B2=5.21 1958PAa (9059) 430
K3=1.65
K4=0.80
B4=7.66

Medium: NH₄NO₃. 20 C: K1=2.80, K2=2.20, K3=1.61, K4=0.60. 40 C: K1=2.63,
K2=2.05, K3=1.37, K4=0.97

Cd++ gl R4N.X 25°C 2.0M U T H K1=2.74 B2=4.92 1958PAa (9060) 431
K3=1.45
K4=1.00
B4=7.37

Medium: NH₄NO₃. DH(K1)=-15.5 kJ mol⁻¹; DH(K2)=-15.9; DH(K3)=-8.8; DH(K4)=-
-12.1. DH(B4)=-52.3; DS1=1.3; DS2=-12.1; DS3=0; DS4=-23.0; DS(B4)=-34.3.

Cd++ cal R4N.X 27°C 2.0M U H 1957YMa (9061) 432
Medium: NH₄NO₃. T=26.8C. DH1=DH2=DH3=DH4=DH5=DH6=-14.6 kJ mol⁻¹; DS1=2.1; DS2
=-8.8; DS3=-21.3; DS4=-31.0; DS5=-54.4; DS6=-81.2. DHn is DH(Kn) etc.

Cd++ gl R4N.X 25°C 2.15M U H K1=2.74 B2=4.95 1953SPc (9062) 433
K3=1.37
K4=1.13

Medium: NH₄NO₃. DH(B2)=-29.79 kJ mol⁻¹; DH(B4)=-53.1; DS(B2)=-5.0; DS(B4)=-
-35.6.

Cd++ vlt oth/un 25°C var U 1953YAA (9063) 434
B3=5.57
K4=0.58

K5=0.00

Cd++ cal R4N.X rt 3.0M U H 1952FYa (9064) 435
Medium: NH4NO3. DH(B6)=-63.6 kJ mol-1; DS=-113.0 J K-1 mol-1

Cd++ vlt oth/un 25°C var U 1951KLc (9065) 436
B3=8.62
B6=8.77

Cd++ vlt oth/un 25°C var U 1949SBa (9066) 437
B4=7.0

Cd++ vlt oth/un 25°C var U 1944CHb (9067) 438
B4=6.48

Cd++ sol R4N.X 25°C 0.10M U K1=2.57 1943DVa (9068) 439
Medium: NH4NO3.

Cd++ EMF R4N.X 25°C 1.0M U K1=2.54 B2=4.78 1943LEa (9069) 440
K3=1.30
K4=1.18
K5=-0.08
B4=7.26

Method: Cd/Hg electrode. Medium: NH4ClO4.

Cd++ gl R4N.X 30°C 2.0M U TIH K1=2.65 B2=4.75 1941BJa (9070) 441
K3=1.44
K4=0.93
K5=-0.32
K6=-1.66

Medium: NH4NO3. B4=7.12. I=0 corr. K1=2.51, K2=1.96, K3=1.30, K4=0.79, B4=6.56
DH(B4)=-54 kJ mol-1. Kn a given as a function of T

Cd++ sol oth/un 20°C var U 1933ATa (9071) 442
B4=6.96

Cd++ oth oth/un 25°C var U B2=4.57 1925WIa (9072) 443
B4=6.60

Method: partial pressure of NH3

Cd++ ISE oth/un 21°C var U 1903EUa (9073) 444
B4=7.0

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

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

Cd++ ISE NaClO4 25°C 1.00M C K1=1.54 B2=2.83 1988EAa (9345) 445

Cd++ EMF KNO3 25°C 1.0M C T HM K1=1.36 B2= 2.46 1983BDa (9346) 446
 B(CdAL)=2.46
 B(CdA2L)=3.52
 B(CdAL2)=3.60
 B(CdA2L2)=5.13

Method: Cd electrode. DH(K1)=-55.2 kJ mol⁻¹, DS(K1)=-159 J K⁻¹ mol⁻¹.
 DH(B2)=-56.5, DS(B2)=-142. A is thiourea; DH, DS values for ternary comps.

 Cd++ sp NaClO4 25°C 1.0M U I K1=1.82 1971TLa (9347) 447
 K1=1.97(I=2.5), 2.06(I=3.0), 2.48(θ corr.)

 Cd++ cal NaClO4 25°C 3.0M U H 1966GEa (9348) 448
 DH(K1)=-8.7 kJ mol⁻¹, DS=4.6 J K⁻¹ mol⁻¹; DH(K2)=-8.8, DS=-4.2; DH(K3)=-6.60
 DS=-10.0

 Cd++ vlt NaClO4 25°C 2.0M U 1966SGa (9349) 449
 B(CdLCl)=2.81
 B(CdL2Cl)=3.48
 B(CdLCl2)=2.78

 Cd++ vlt KNO3 30°C 1.0M U K1=1.7 B2=1.85 1965JGa (9350) 450
 B3=3.1

 Cd++ vlt NaClO4 25°C 2.0M U K1=1.78 B2=2.85 1965SGb (9351) 451
 B3=3.53
 B4=2.70

 Cd++ vlt NaClO4 25°C 2.50M U K1=1.8 B2=2.3 1961TBa (9352) 452
 B3=3.2

 Cd++ sp NaClO4 25°C 1.0M U I K1=1.7 1958VEa (9353) 453
 At I=0 corr.: K1=2.4

 Cd++ ISE NaClO4 25°C 3.0M U K1=1.80 B2=3.01 1943LEa (9354) 454
 K3=0.80
 K4=-0.7

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

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

 Cd++ EMF NaClO4 25°C 4.0M C M K1=0.061 1981FNa (9537) 455
 B(Cd(NO3)(N3))=1.65
 B(Cd(NO3)(N3)2)=2.18
 B(Cd(NO3)(N3)3)=3.43
 B(Cd(NO3)(N3)4)=3.54

Method: Cd/Hg dropping electrode. Medium: 2.0-4.0 M NaClO4/2.0-0 M NaNO3.
 B(Cd(NO3)(SCN))=1.40, B(Cd(NO3)(SCN)2)=2.04.

Cd++ sp oth/un 15°C 1.00M U T K1=-0.260 1978MMF (9538) 456
 At 20 C: K1=-0.271; 25 C: -0.281; 30 C: -0.315

Cd++ ISE NaClO4 25°C 3.0M U I K1=-0.03 B2=-0.6 1974FRc (9539) 457
 B3=-0.8
 B4=-1.7
 Method: Cd/Hg electrode. Medium: LiClO4. K1=-0.11(I=0.5). K1=-0.05, B2=-0.8(I=1)
 K1=0.02, B2=-0.44, B3=-1.2(I=2). K1=0.08, B2=0.04, B3=-0.52, B4=-0.8(I=4)

Cd++ ISE NaClO4 25°C 0.0 U I K1=0.46 B2=0.17 1974FRc (9540) 458
 B3=-0.85
 Method: Cd/Hg electrode, Medium: LiClO4 corr 0

Cd++ kin NaClO4 25°C 0.10M U I K1=0.27 1973HHb (9541) 459
 K1=0.07(I=1)

Cd++ ISE NaClO4 25°C 4.0M U M K1=0.04 B2=-0.01 1969FRa (9542) 460
 K3=-0.9
 K4=-1.3
 K(Na+Cd(NO3)3)=-0.96
 K(Na+Cd(NO3)4)=-0.35
 Medium: LiClO4. K(K+CdL3)=-0.35, K(K+CdL4)=0.3

Cd++ vlt NaClO4 25°C 2.0M U K1=0.11 1969MOa (9543) 461

Cd++ oth oth/un 44°C var U K1=-0.42 1968DIa (9544) 462
 Methods: Raman spectra, infrared spectra.

Cd++ vlt non-aq 125°C 100% U K1=2.12 B2=3.72 1966AMc (9545) 463
 B3=5.2
 B4=6.8
 Medium: Me2SO2

Cd++ oth oth/un 25°C 0.0 U K1=0.2 1966MBb (9546) 464

Cd++ dis NaClO4 30°C 3.0M U K1=0.1 B2=0.1 1965HSc (9547) 465

Cd++ cal oth/un 25°C 0.0 U H 1962VAb (9548) 466
 DH(K1)=-21.8 kJ mol⁻¹, DS=-67 J K⁻¹ mol⁻¹ (K1=0.31 used)

Cd++ EMF NaClO4 25°C 3.0M U T K1=-0.13 1961TJa (9549) 467
 Method: Cd/Hg electrode. K1=-0.21(35 C), -0.21(45 C). Also K1 with other ions

Cd++ con oth/un 25°C 0.0 U T H K1=0.31 1961VAb (9550) 468
 K1=0.41(18 C); DH(K1)=-23.8 kJ mol⁻¹, DS=-75 J K⁻¹ mol⁻¹

Cd++ vlt NaClO4 25°C 3.0M U K1=-0.21 B2=0.80 1959CHb (9551) 469

Cd++ sol oth/un 20°C var U 1945FEb (9552) 470
 Kso(CdL0.4(OH)1.6)=-11.28

Cd++ EMF NaClO4 25°C 3.0M U K1=0.11 1941LEa (9553) 471

Cd++ con oth/un 18°C 0.0 U K1=0.40 1930RDa (9554) 472

N2H4 L Hydrazine CAS 302-01-2 (2117)
Hydrazine; H2N.NH2

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

Cd++ vlt NaClO4 25°C 1.0M U K1=2.25 B2=2.40 1954REb (10070) 473
K3=0.38
K4=1.11

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

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

Cd++ cal oth/un 25°C 0.05M C H 1981ABd (10167) 474
Medium: NaN3. DH(K1)=0.34 kJ mol-1, DS(K1)=46.2 J K-1 mol-1.

Cd++ ISE none 25°C 0.0 M K1=1.44 B2=1.52 1976DMa (10168) 475

Cd++ cal NaClO4 25°C 3.0M U H 1966GEa (10169) 476
DH(K1)=-4.81 kJ mol-1, DS=14.6 J K-1 mol-1; DH(K2)=-5.89, DS=0.84;
DH(K3)=-7.11, DS=13.0; DH(K4)=-5.4, DS=-7.1

Cd++ vlt NaClO4 25°C 2.0M U K1=0.89 B2=1.37 1962BSc (10170) 477

Cd++ vlt NaClO4 25°C 2.0M U K1=1.4 B2=2.6 1961SAC (10171) 478
B3=2.9
B4=3.0
B5=3.26

Cd++ ISE NaClO4 25°C 3.0M U K1=1.61 B2=2.78 1943LEa (10172) 479
K3=0.45
K4=0.67

OH- HL Hydroxide (57)
Hydroxide;

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

Cd++ gl NaClO4 25°C 0.10M U 2000KAa (10775) 480
*K1=-10.01
*B(2,1)=-8.54

Cd++ gl KCl 35°C 0.10M C 1998ALa (10776) 481
*B2=-18.43

Cd++ gl NaClO4 25°C 1.00M U K1=4.7 B2=7.8 1971GTa (10789) 494
B4=9.7
Kso(Cd(OH)2(s)=Cd+2OH)=-14.6

Cd++ cal NaClO4 25°C 3.00M U H 1970ARb (10790) 495
*K1=-10.20
*B(2,1)=-9.08
*B(4,4)=-31.85

Medium: LiClO4. DH(*K1)=54.8 kJ mol⁻¹; DH(*B(2,1))=45.6, DH(*B(4,4))=168.6

Cd++ cal oth/un 25°C 3.00M U H 1967AKc (10791) 496
DH(*K1)=54.7, kJ mol⁻¹, DS=-12 J K⁻¹ mol⁻¹; DH(*B(2,1))=45.6, DS=21;
DH(*B(4,4))=170, DS=-38

Cd++ sol NaClO4 25°C 1-7MM U I 1965RDa (10792) 497
K(Cd(OH)2(s)=CdOH+OH)=-8.5
K(Cd(OH)2(s)=Cd(OH)2)=-6.0
Kso=-5.9
K(Cd(OH)2(s)+2OH)=-5.5

Cd++ gl none 25°C 0.0 U 1964PCa (10793) 498
*Kso=13.61
Kso(Cd(OH)2(s)=Cd+2OH)=-14.39

Cd++ oth none 25°C 0.0 M 1964SMd (10794) 499
*K1=-7.92
*K2=-11.38
*K3=-14.32
*K4=-13.96
*K5=-14.64, *K6=-14.88 ?. Kso=-14.19

Cd++ sol NaClO4 25°C 1.00M U K1=17.76 1964STb (10795) 500

Cd++ sol NaClO4 25°C 3.00M U 1963SCb (10796) 501
Kso(beta-Cd(OH)2)=14.03
Kso(gamma-Cd(OH)2)=14.22

Cd++ gl NaClO4 25°C 3.0M U 1962BCb (10797) 502
*K1=-10.2
*B(2,1)=-9.10
*B(4,4)=-31.8

Medium: LiClO4. *B(m,n)(mCd+nH2O=Cdm(OH)n+nH)

Cd++ dis NaClO4 25°C 3.0M U K1=4.3 B2=7.70 1962DLa (10798) 503
K3=2.6
K4=1.7

Cd++ cal NaClO4 25°C 8.76M U H 1962LGA (10799) 504
Medium:HClO4;DH(*Kso(Cd(OH)2(s)+2H=Cd+2H2O))=-88.7 kJ mol⁻¹

Cd++	gl	oth/un	25°C	var	U		1960GHa (10800)	505	
						K=-10.15			
Cd++	sol	none	20°C	0.0	U	B2=10.62	1959KBa (10801)	506	
						K(Cd(OH)2(s)=Cd(OH)2)=-3.96			
Cd++	gl	NaCl04	25°C	3.0M	U		1959SCa (10802)	507	
						*Kso=14.03			
						Kso(Cd(OH)2(s)=Cd+2OH)=-14.41			
Cd++	cal	none	25°C	0.0	U	H	1959SLc (10803)	508	
						DH(*Kso(Cd(OH)2(s)+2H=Cd+2H2O))=-94.6 kJ m-1;DH(*Kso(CdO(s)+2H=Cd+H2O))=-109			
Cd++	sol	none	25°C	0.0	U		1958LGa (10804)	509	
						B4=9.7			
Cd++	sol	none	25°C	0.0	U		1957Gwa (10805)	510	
						*Ks1=4.5			
						Ks2=-5.37			
						Ks3=-4.68			
						Ks4 > -5.1			
						*Ks1(Cd(OH)2(s)+H=CdOH+H2O);Ksn(Cd(OH)2(s)+(n-2)OH=Cd(OH)n)(n=2,3,4)			
Cd++	vlt	KNO3	25°C	1.0M	U	K1=6.38	B2=9.47	1954G0a (10806)	511
						K(Cd+H2O=CdOH+H)=-7.62			
						K(CdOH+H2O=Cd(OH)2+H)=-10.92			
Cd++	sol	oth/un	25°C	dil	U		1954NRa (10807)	512	
						Kso=-13.67			
Cd++	gl	KCl	30°C	0.10M	U		1952CCa (10808)	513	
						K(Cd+H2O=CdOH+H)=-11.6			
Cd++	sol	none	25°C	0.0	U		1951FRb (10809)	514	
						Kso=-13.66(active)			
						Kso=-14.23(inactive)			
Cd++	gl	none	20°C	0.0	U		1951VIa (10810)	515	
						Kso(Cd(OH)2)=-12.77			
Cd++	EMF	none	18°C	0.0	U		1950AFa (10811)	516	
						Kso(Cd(OH)2)=-14.58			
Cd++	gl	oth/un	25°C	var	U		1942MRa (10812)	517	
						Kso(Cd(OH)2(s))=-13.49			
Cd++	gl	none	25°C	0.0	U		19380Ka (10813)	518	
						Kso(Cd(OH)2(s))=-14.61			

Cd++	dis oth/un	20°C	var	U	K1=5.52	1933JEa (10814)	519
Cd++	EMF none	25°C	0.0	U	Kso(Cd(OH)2(s))=-13.93	1932ISa (10815)	520
Cd++	sol none	25°C	0.0	U	Kso=-14.22 for Cd(OH)2 K(Cd(OH)2+OH)=-5 Kso=-13.64 for CdO	1928PIa (10816)	521
Cd++	sol oth/un	25°C	var	U	Kso(Cd(OH)2(s))=-13.55	1925WIA (10817)	522
Cd++	kin oth/un	100°C	0.01M	U	*K1=-9.49	1913KUa (10818)	523

Medium: 0.017 M CdCl2

P04--- H3L Phosphate CAS 7664-38-2 (176)
Phosphate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sol	none	37°C	0.0	C			Ks=-30.9	2001AMa (13041)	524

Ks: Cd5H2(P04)4.4H2O(s)+2H=5Cd+4HP04+4H2O.

Value based on K(Cd+HP04)=4.83 and K(Cd+H2P04)=1.8.

Cd++	gl	NaNO3	25°C	0.10M	M			K(Cd+HL)=2.79	1996SSa (13042)	525
------	----	-------	------	-------	---	--	--	---------------	-----------------	-----

Cd++	ISE	NaClO4	25°C	0.0	C	I		K(Cd+H2L)=1.2 K(Cd+2H2L)=1.9 K(Cd+H2L+HL)=4.8 K(Cd+2HL)=5.4	1994IPa (13043)	526
------	-----	--------	------	-----	---	---	--	--	-----------------	-----

Method: Cd/Hg electrode. In 3 M NaClO4: K(Cd+H2L)=0.75, K(Cd+2H2L)=1.01,
K(Cd+2H2L=CdH3L2+H)=-3.02, K(Cd+2H2L=CdH2L2+2H)=-8.69

Cd++	dis oth/un	RT	0.20M	C				K(Cd+H3L=CdH2L+H)=-1.10 K(Cd+2H3L=Cd(H2L)2+2H)=-2.90	1990EBa (13044)	527
------	------------	----	-------	---	--	--	--	---	-----------------	-----

Method: extraction of 109Cd with di(2-ethylhexyl)phosphoric acid from
H3P04/(Li,H)ClO4 into benzene. K(Cd+2H3L=Cd(OH)2(H2L)2+4H)=-6.90.

Cd++	dis oth/un	25°C	?	U				K(Cd+H2L)=1.20	1990SPb (13045)	528
------	------------	------	---	---	--	--	--	----------------	-----------------	-----

Cd++	oth none	25°C	0	U				K(Cd+H2P04=CdHP04+H)=-4.00 *Ks(Cd3(P04)2)=-1.00	1989SAb (13046)	529
------	----------	------	---	---	--	--	--	--	-----------------	-----

From published thermodynamic data. *Ks: $\text{Cd}_3(\text{PO}_4)_3(\text{s}) + 4\text{H} = 3\text{Cd} + 2\text{H}_2\text{PO}_4$.

 Cd++ gl NaClO4 25°C 0.10M U M 1975RMa (13047) 530
 K(Cd+HPO4)=2.91
 K(Cd+Cys+HPO4)=11.45
 K(Cd+citrate+HPO4)=9.56
 K(Cd+tartrate+HPO4)=8.13

Cd++ gl NaClO4 25°C 0.10M U M 1974RMb (13048) 531
 K(Cd+HL)=2.91, K(Cd+2HL)=5.15
 K(Cd+H2L)=2.24
 K(CdFulvate+HL)=5.01
 K(Cd+Fulvate+HL)=7.79

Cd++ gl NaClO4 25°C 3.00M U I 1973HSa (13049) 532
 K(Cd+HL)=2.68
 K(Cd+H+HL)=7.04
 K(Cd5H2L4(H2O)4(s)+2H)=-25.4. Data also at other ligand concs.

Cd++ vlt NaClO4 25°C 0.50M U 1973NMB (13050) 533
 K(Cd+HL)=3.0
 K(Cd+2HL)=3.9
 K(Cd+3HL)=5.1

Cd++ sol oth/un 20°C dil U 1961CAa (13051) 534
 Kso(Cd3L2)=-32.6

 PW11039----- H7L (2467)
 alpha-Heteromonophospho-polytungstate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	1.00M	U		K1=4.19	1984COa (13397)	535	

	P207----	H4L		Pyrophosphate			CAS 2466-09-3	(198)		
Diphosphate; from (HO)2PO.O.PO(OH)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	1.00M	C		K1=7.9	1986BFc (13538)	536	
B(CdH2L)=14.52										

 Cd++ kin R4N.X 30°C 0.10M U K1=7.41 1978KHa (13539) 537

Cd++ dis NaClO4 30°C 1.0M U K1=4.0 B2=6.3 1965HSc (13540) 538

Cd++ EMF NaNO3 18°C 1.00M U B2=7.86 1962NMh (13541) 539
 Method: Cd/Hg electrode. As an alternative K(CdOH+2L)=7.86

Cd++ gl none 25°C 0.0 U T K1=8.7 1959W0a (13542) 540

B(Cd(OH)L)=11.8

Also by Cd electrode. At 40 C: K1=8.6, B(Cd(OH)L)=12.4

Cd++ vlt KCl ? 3.50M U B2=4.18 1947SFa (13543) 541

Cd++ vlt oth/un ? var U K1=5.6 1932SAa (13544) 542

P2W17O61----- Polytungstate (2102)
alpha-Heterodiphospho-polytungstate (usually alpha1 isomer)

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

Cd++ gl NaNO3 25°C 1.00M U K1=3.5 1984COa (13705) 543
K1=4.23 (alpha2 isomer)

P3O10----- H5L CAS 10380-08-2 (1001)
Triphosphosphate; from (HO)2PO.O.PO(OH).O.PO(OH)2

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

Cd++ kin oth/un 30°C 0.10M U K1=7.13 1978KHa (13810) 544

Cd++ gl R4N.X 20°C 0.10M U H K1=8.1 1965ANa (13811) 545
K(Cd+HL)=4.97
K(CdL+H)=5.8

Medium: Me4NNO3. By calorimetry: DH(K1)=11.3 kJ mol-1, DS=193 J K-1 mol-1

Cd++ gl KCl 25°C 0.10M U K1=6.60 1964EMb (13812) 546
K(Cd+HL)=3.60
K(CdL+H)=5.06

Cd++ gl none 25°C 0.0 U T K1=9.8 1959W0a (13813) 547
B(Cd(OH)L)=12.6

Method: also Cd electrode. At 40 C: K1=10.1, B(Cd(OH)L)=12.5

Cd++ vlt KNO3 25°C 1.00M U B(Cd3L4)=-9.05 ? 1957PLa (13814) 548

P3O9--- H3L CAS 13566-25-1 (235)
Cyclotrimetaphosphate;

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

Cd++ ISE NaClO4 25°C 0.40M U K1=1.8 1986KUc (13940) 549

P4O12---- H4L CAS 13598-74-8 (234)
Cyclotetrametaphosphate;

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

Cd++ ISE NaClO4 25°C 0.30M C K1=3.3 1986Kuc (13992) 550

P4013----- H6L Tetrphosphate (1102)
Tetrphosphate;

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

Cd++ kin oth/un 30°C 0.10M U K1=6.54 1978KHa (14040) 551

P6018----- H6L (233)
Cyclohexametaphosphate;

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

Cd++ ISE NaClO4 25°C 0.10M C K1=5.0 B2=8.3 1986Kuc (14068) 552
B3=11.1

P8024----- H8L (232)
Cyclooctametaphosphate;

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

Cd++ ISE NaClO4 25°C 0.10M C K1=6.2 B2=9.6 1986Kuc (14080) 553
B3=12.6

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

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

Cd++ vlt oth/un 25°C 0.72M C 1999AVb (14266) 554
K(Cd+HL)=8.4
K(Cd+2HL)=15.5

Method: determination of Cd by cathodic stripping voltammetry using oxine as competitive ligand. Medium: seawater, pH 8.0, S=35.

Cd++ sol NaNO3 25°C 0 C I 1999WTa (14267) 555
*Ks(CdS(s)+H=Cd+HS)=-14.82
*Ks(CdS(am)+H)=-14.4 to -14.1

Calcd for I=0 from data for I=0.01-0.097 M NaNO3, pH 4-9. Determined from solubility in 0.2 M EDTA solution to suppress sulfide complex formation.

Cd++ sol NaNO3 25°C 0 C I 1999WTa (14268) 556
K(Cd+HS)=7.38
K(Cd+2HS)=14.43
K(Cd+3HS)=16.26
K(Cd+4HS)=18.43

Calculated for I=0 from data for I=0.02-0.063 M NaNO3, pH 4-9. Determined from solubility of CdS in HS- solutions.

Cd++ vlt oth/un 25°C 0.70M C I 1996LRb (14269) 557

$K(\text{Cd}+\text{HS})=4.76$
 $K(2\text{Cd}+\text{HS})=9.67$
 $K(3\text{Cd}+\text{HS})=15.43$

Method: voltammetry at Hg/HgS electrode. Medium: seawater. Also data for 0.1 and 0.5 strength seawater

Cd++ vlt NaCl 25°C ? U 1994ZMa (14270) 558

$K_{1\text{eff}}=6.3$
 $K_{2\text{eff}}=6.4$

Medium: sea water, pH=8. Method: cathodic stripping square wave voltammetry

Cd++ sol none 25°C 0 U 1992DHb (14271) 559

$K(\text{CdS}(s)+\text{H}+2\text{HS}=\text{Cd}(\text{HS})_3)=2.08$
 $K(\text{CdS}(s)+\text{H}+3\text{HS}=\text{Cd}(\text{HS})_4)=3.58$
 $K(\text{CdS}(s)+\text{H}_2\text{O}=\text{Cd}(\text{OH})\text{S}+\text{H})=-16.83$
 $K(\text{CdS}(s)+\text{H}=\text{Cd}+\text{HS})=-14.36$

Method: by competitive dissolution in DTPA. CdS(s) is aged greenockite.
 $K(\text{Cd}(s)=\text{CdS})<-9.1$. $K(\text{CdS}(s)+\text{H}=\text{CdHS})<-6.7$. $K(\text{Cd}(s)+\text{H}+\text{HS}=\text{Cd}(\text{HS})_2)<-1.0$

Cd++ oth none ? 0 U 1990DKa (14272) 560

$*K_s(\text{CdS}+\text{H}=\text{Cd}+\text{HS})=-13.39$
 $*K_s(\text{CdS}+\text{HS}=\text{CdHS}_2)=-5.48$

Recalculation of literature data.

Cd++ oth none 25°C 0.0 C 1989DYa (14273) 561

$K_{\text{Cd}+\text{HS}}=\text{CdS}+\text{H})=4.8$
 $*K_{\text{so}}(\text{CdS})=-14.0$
 $K_{\text{so}}(\text{CdS})=-9.2$

Calculated from literature data, based on $K(\text{H}+\text{S})=17.0$.
CdS is greenockite.

Cd++ oth none 25°C 0 U 1989SAb (14274) 562

$K_{\text{so}}(\text{CdS})=-27.07$

From published thermodynamic data.

Cd++ gl oth/un 25°C 1.00M U 1988DYa (14275) 563

$K_1=18.23$
 $K(\text{Cd}+\text{HS})=6.4$
 $K(\text{CdHS}+\text{HS})=7.4$
 $K(\text{Cd}(\text{HS})_2+\text{HS})=2.2$
 $K(\text{Cd}(\text{HS})_3+\text{HS})=2.4$

Cd++ oth none 25°C 0 U 1988LIa (14276) 564

$K_{\text{so}}(\text{CdS})=-33.3$
 $*K_{\text{so}}(\text{CdS})=-15.9$

Derived from thermodynamic data and $K(\text{H}+\text{S}=\text{HS})=17.3$.

Cd++ oth none 25°C 0 U 1988SBc (14277) 565

$K_{\text{so}}(\text{CdS},\text{greenockite})=-32.60$

Method: recal. from literature data using $K(\text{H}+\text{S}=\text{HS})=18.57$ and $K(\text{H}+\text{HS})=6.99$

Cd++ ISE NaCl 24°C 0.10M M 1987PFb (14278) 566
Kso(CdS)=-26.8

Method: pH2S measured with Ag2S electrode. K(H+S=HS)=13.9 and K(H+HS=H2S)=6.92 assumed

Cd++ vlt oth/un 25°C var U 1970CLa (14279) 567
Kso=-26.4

Cd++ sol none 25°C 0.0 U 1969BTd (14280) 568
Kso=-27.3

Cd++ oth NaClO4 25°C 3.0M U I 1966KGb (14281) 569
*Kso(CdS(s))=-5.8

Method: combination of thermodynamic data. *Kso=-5.8(I=1), -6.1(I=0 corr)

Cd++ oth none 25°C 0.0 U 1964PCa (14282) 570
K(CdL(s)+2H=Cd+H2S(g))=-5.15

From thermodynamic data. Alternative values K=-5.44, -4.79

Cd++ sol NaClO4 25°C 1.0M U 1964STb (14283) 571
Kso=-25.76

Cd++ oth none 25°C 0.0 U T 1959CZa (14284) 572
Kso(CdL)=-26.03

From thermodynamic data. Kso=-22.32(100 C), -19.25(200 C), -15.80(400 C), -13.92(600 C)

Cd++ vlt none 25°C 0.0 U 1956KRa (14285) 573
Kso(CdL)=-27.8
K(CdL(s)+2H=Cd+H2S(g))=-6.81

Cd++ oth none 25°C 0.0 U 1952GGc (14286) 574
Kso(CdL)=-26.15

From thermodynamic data

Cd++ oth none 25°C 0.0 U 1952LAb (14287) 575
Kso(CdL)=-28

From thermodynamic data

Cd++ oth none 25°C 0.0 U 1940KAa (14288) 576
Kso(CdL)=-27.92

Cd++ oth none 25°C 0.0 U 1936RAa (14289) 577
Kso(CdL)=-27.94

From thermodynamic data

Cd++ sol oth/un 25°C var U 1931K0a (14290) 578
Kso(CdL)=-28.30

K(CdL(s)+2H=Cd+H2S(g))=ca. -4.8

Cd++ sol oth/un 16°C var U 1928AUa (14291) 579
K(CdL(s)+2H=Cd+H2S(g))=-5.08

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

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

Cd++ cal non-aq 25°C 100% C HM 2000KYa (14691) 580
B(Cd(phen)SCN)=8.44
B(Cd(phen)(SCN)2)=10.52
B(Cd(phen)2SCN)=12.98
B(Cd(phen)2(SCN)2)=14.86

Medium: DMF, 0.4 M Et4NClO4. DH(Cd(phen)SCN)=-26.2 kJ mol⁻¹,
DH(Cd(phen)(SCN)2)=-35.3, DH(Cd(phen)2SCN)=-55.5, DH(Mn(phen)2(NCS)2)=-64.2

Cd++ oth NaClO4 25°C 1.0M U I R K1=1.31 1997BPa (14692) 581
IUPAC evaluation. I=3.0 M: K1=1.38

Cd++ cal non-aq 25°C 100% U H K1=3.7 B2=6.3 1995KSb (14693) 582
B3=8.5
B4=10.3

Medium: N,N-Dimethylacetamide, 0.1 M Bu4NClO4. DH(K1)=0.5 kJ mol⁻¹,
DH(B2)=2.8, DH(B3)=8, DH(B4)=4.3

Cd++ cal non-aq 25°C 100% C H K1=3.57 B2=5.98 1988ITa (14694) 583
K3=1.61
K4=1.23

Medium: DMF, 0.4 M Et4NClO4. DH(K1)=-4.9 kJ mol⁻¹, DH(K2)=-4.3, DH(K3)=1.9,
DH(K4)=9.9

Cd++ cal non-aq 25°C 100% C H T K1=2.77 B2=4.61 1988ITa (14695) 584
K3=1.08
K4=0.86

Medium: DMF, 0.1 M NH4ClO4. DH(K1)=-5.8 kJ mol⁻¹, DH(K2)=-5.9, DH(K3)=0.5,
DH(K4)=8.9

Cd++ ISE alc/w 25°C 100% M K1=5.86 B2=9.09 1988SDa (14696) 585
B4=12.81

Medium: MeOH, 0.05 M NaClO4

Cd++ ISE alc/w 25°C 100% C T K1=5.86 B2=9.09 1987DWb (14697) 586

Medium: MeOH, 0.05 M NaClO4

Cd++ cal NaClO4 25°C 3.00M U H T K1=1.378 B2=1.77 1986IYa (14698) 587
K3=0.052
K4=0.180

DH(K1)=-10.2, DH(K2)=-20.1, DH(K3)=22.6 and DH(K4)=-22.8 kJ mol⁻¹.
DS(K1)=-8, DS(K2)=-60, DS(K3)=77 and DS(K4)=-73 J K⁻¹ mol⁻¹.

Cd++ oth NaClO4 18°C 3.00M C K1=1.11 B2=1.79 1986WMa (14699) 588
B3=2.27
B4=2.33
B5=2.00
B6=2.32

Method: potentiometric stripping

Cd++ vlt KNO3 25°C 2.00M U M K1=1.48 B2=2.33 1985SBb (14700) 589
B3=2.53
B4=2.29
B(CdLCl)=2.45
B(CdLCl2)=2.73

Cd++ sp NaClO4 25°C 2.0M U K1=1.33 B2=2.09 1985VNa (14701) 590
B3=2.11
B4=2.24

Cd++ vlt oth/un 25°C 0.10M U K1=1.09 B2=1.66 1984GLa (14702) 591
B4=1.91

Cd++ vlt KNO3 25°C 1.0M C M K1=1.50 B2= 0.90 1983DOb (14703) 592
B3=2.11
B(Cd(taa)L)=2.05
B(Cd(taa)2L)=1.17
B(Cd(taa)L2)=2.15

Method: polarography. taa: thioacetamide.

Cd++ vlt KNO3 25°C 2.00M U K1=1.0 B2=2.70 1983ZYb (14704) 593

Cd++ dis NaClO4 25°C 1.00M U K1=1.05 B2=2.01 1982MIa (14705) 594
B3=2

Cd++ vlt NaClO4 25°C 0.50M U I K1=1.38 B2=2.06 1982TCa (14706) 595
In 90% w/w MeOH/H2O, K1=2.70; B2=3.60; B3=4.10; B4=4.97.
Values also for other MeOH/H2O and EtOH/H2O mixtures

Cd++ vlt KNO3 26°C 1.5M C K1=1.5 B2= 0.90 1981DDb (14707) 596
B3=2.11

Method: polarography.

Cd++ ISE non-aq 25°C 100% U K1=2.78 B2=4.65 1981SSf (14708) 597
B3=6.82

Medium: dimethylacetamide

Cd++ vlt oth/un 25°C 2.0M C K1=1.059 B2= 1.72 1980LEa (14709) 598
B4=1.955

Method: re-analysis of published polarographic data.

Medium not stated.

Cd++ vlt KNO3 25°C 2.50M U M K1=1.11 B2=1.85 1979JBb (14710) 599
B3=1.18

Cd++ ISE non-aq 25°C 100% U K1=2.62 B2=4.41 1979LTa (14711) 600
B3=5.60
B4=6.48
B5=7.30

Medium: DMF

Cd++ vlt NaClO4 25°C 1.0M C M K1=1.28 B2= 1.95 1978ARb (14712) 601
B3=2.26
B(Cd(SCN)Cl)=2.03
B(Cd(SCN)Cl2)=2.19
B(Cd(SCN)2Cl)=2.68

Method: polarography.

Cd++ ISE non-aq 25°C 100% C I K1=1.81 B2= 2.72 1976ABf (14713) 602
K3=0.20

Medium: 1 M NH4ClO4 in DMSO

Cd(Hg)-electrode

Cd++ EMF R4N.X 25°C 3.0M U M 1974FSc (14714) 603
B(CdLCl)=2.5
B(CdLCl2)=3.5
B(CdL2Cl)=5.3
B(CdL2Cl2)=5.4

B(CdL3Cl)=6.2, B(CdL4Cl2)=5.8. Data also with Br, I, SCN, S2O3

Cd++ vlt non-aq 25°C 100% U 1974MAa (14715) 604
B4=19.7

Medium: acetonitrile, 0.1 M Et4NClO4

Cd++ vlt KNO3 30°C 2.0M U K1=1.16 B2=1.49 1974MMd (14716) 605
B3=1.63
B4=1.65

Cd++ cal none 25°C 0.0 U H 1974RBb (14717) 606
DH(K1)=-12.8 kJ mol⁻¹, DS=-6.7 J K⁻¹ mol⁻¹; DH(K2)=-23.85, DS=-26.8;
DH(K3)=-32.2, DS=-53.6

Cd++ kin NaClO4 25°C 1.0M U T K1=1.34 1973HHb (14718) 607

Cd++ ISE none 25°C 0.0 U T K1=1.89 B2=2.78 1973RSc (14719) 608
B3=2.85
B4=2.26

Cd++ ISE none 25°C 0.0 U T H K1=2.15 1971DDb (14720) 609
DH(K1)=-14.5 kJ mol⁻¹. K1=2.07(35 C), 1.99(45 C). Method: Ag electrode.
By spectrophotometry: K1=2.11(30 C)

Cd++ vlt KNO3 25°C 2.0M U K1=1.26 B2=2.14 1971MOa (14721) 610
B3=1.94
B4=2.25
B(CdLNO3)=0.93
B(CdL2NO3)=1.55

Other data: B(CdNO3)=0.11

Cd++ ISE non-aq 25°C 100% U K1=1.48 B2=2.18 1971SAh (14722) 611
B3=3.04

Medium: formamide, 1.1 M NaNO3. Method: Cd amalgam electrode.
In DMSO, 1 M (Li,Na)ClO4: K1=1.79, B2=2.54, B3=2.72

Cd++ ISE NaClO4 25°C 3.0M U I K1=1.41 B2=2.24 1968GEa (14723) 612
B3=2.48
B4=2.48

Method: Cd/Hg electrode. At I=2 M: K1=1.34, B2=2.05, B3=2.25, B4=2.03. I=1 M:
K1=1.32, B2=1.99, B3=2.03, B4=1.88; I=0.25 M: K1=1.43, B2=2.10, B3=2.30

Cd++ cal NaClO4 ? 2.0M U IH 1968GJc (14724) 613
DH(K1)=-9.27 kJ mol⁻¹, DS=-5.4 J K⁻¹ mol⁻¹; DH(K2)=-7.7, DS=-12.5; DH(K3)=-9.2
DS=-27.2. DH values also at 0.5 and 0.25 M NaClO4

Cd++ EMF oth/un 35°C 0.0 U K1=2.08 1968PRd (14725) 614

Cd++ vlt KNO3 30°C 2.0M U K1=1.00 B2=1.74 1967HBa (14726) 615
B3=0.85
B4=1.64

Cd++ cal oth/un 25°C 0.0 U H K1=3.51 1967NTa (14727) 616
Medium: 0 corr. DH(K1)=-2.9 kJ mol⁻¹, DS=38.5 J K⁻¹ mol⁻¹

Cd++ ix oth/un 25°C 0.0 U K1=1.74 B2=2.40 1966ACa (14728) 617
K3=-1.0
K3K4=0.51
B4=2.91

Cd++ cal NaClO4 25°C 3.0M U H T K1=1.42 B2=2.24 1966GEa (14729) 618
B3=2.48
B4=2.48

DH(K1)=-8.1 kJ mol⁻¹, DS=0 J K⁻¹ mol⁻¹; DH(K2)=-7.2, DS=-8.4; DH(K3)=-6.56,
DS=-17.5; DH(K4)=-4.2, DS=-14.6

Cd++ dis NaClO4 30°C 1.0M U K1=0.7 B2=1.5 1965HSc (14730) 619

Cd++ ISE alc/w 20°C 100% U I K1=3.0 B2=5.5 1964GSd (14731) 620
B3=5.9
B4=6.2

Medium: MeOH, 1.6 M NaClO4. In Me2NCHO: K1=3.0, B2=4.5, B3=6.3, B4=6.7

Cd++ ISE non-aq 20°C 100% U I 1964GSd (14732) 621

B4=13.33
B5=14.0

Medium: MeCN, 1.6 M NaClO₄. In 70% MeOH/H₂O: K₁=2.3, B₂=3.5, B₃=4.3, B₄=5.2

Cd⁺⁺ sp NaClO₄ 20°C 0.60M U I K₁=1.32 1964KSe (14733) 622
Medium: HClO₄. K₁=1.44(I=0.3), 1.53(I=0.15)

Cd⁺⁺ dis NaClO₄ 20°C 3.0M U I K₁=1.60 B₂=2.60 1964TCa (14734) 623
B₃=2.90
K_d(Cd+2L=CdL₂(MeCOiBu))=2.79
At I=1.5 M: K₁=1.32, B₂=1.98, B₃=2.55, K_d=1.60

Cd⁺⁺ vlt NaClO₄ 25°C 1.0M U K₁=1.31 1963TCb (14735) 624

Cd⁺⁺ sp none 22°C 0.0 U K₁=2.51 1963VMa (14736) 625

Cd⁺⁺ vlt NaClO₄ 25°C 2.0M U K₁=1.40 B₂=1.88 1961SAC (14737) 626
B₃=1.93
B₄=2.38

Cd⁺⁺ vlt non-aq ? 100% U K₁=1.78 B₂=2.51 1960HSd (14738) 627
B₃=1.78
B₄=3.80

Medium: formamide(HCONH₂), 1 M NaClO₄?

Cd⁺⁺ vlt R4N.X 25°C 2.0M U I K₁=1.08 B₂=1.62 1959TBa (14739) 628
K₃=-0.66
K₄=0.68
B₄=1.64

Medium: NH₄NO₃; also K₁ to B₆ for MeOH/H₂O mixtures

Cd⁺⁺ ISE diox/w 20°C 21% U I 1958G0a (14740) 629
B₃=3.18
B₄=3.03

2.5 M dioxan/H₂O containing KL at various conc. In 5 M dioxan B₃=3.78, B₄=3.70, B₆=3.25. In 7.5 M dioxan B₆=4.59. Method: Cd amalgam electrode

Cd⁺⁺ ISE KNO₃ 20°C 1.9?M U TIH K₁=1.90 B₂=2.24 1957GBa (14741) 630
B₃=2.36
DH(B₂)=-17.6 kJ mol⁻¹, DH(B₃)=-25(20 C); B₂=1.78, B₃=1.81(60 C). Method:
Cd amalgam electrode. In 1 M dioxan B₂=2.18, B₃=2.36. Also data in acetone

Cd⁺⁺ vlt NaClO₄ 25°C 3.0M U T K₁=1.36 B₂=2.09 1957THa (14742) 631
K₃=0.29
K₄=0.10
K₅=-0.26
K₆=-0.50

B₆=1.72

Cd⁺⁺ vlt KNO₃ 25°C 0.10M U K₁=1.74 1957TSc (14743) 632

Cd++ vlt alc/w 25°C 100% U B2=8.01 1956TUa (14744) 633
Medium: EtOH

Cd++ vlt KNO3 30°C 2.0M U K1=1.01 B2=1.72 1951HFa (14745) 634
K3=-0.97
K4=1.00

Cd++ vlt oth/un 25°C var U B3=1.28
B4=0.07
B5=-0.01

Cd++ ISE NaClO4 25°C 3.0M U K1=1.39 B2=1.98 1943LEa (14747) 636
K3=0.60

Method: Cd amalgam electrode

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

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

Cd++ EMF NaCl 25°C 0.00 U I K1=3.29 1991RZb (15430) 637

Cd++ vlt NaNO3 25°C 1?M U B2=4.19 1957T0a (15431) 638

S04-- H2L Sulfate CAS 7664-93-9 (15)
Sulfate;

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

Cd++ con mixed 20°C 50% C I K1=3.32 2001MTa (15845) 639
Medium: 50 % w/w DMF/H2O. Data for 0-80 % w/w DMF/H2O. At 0% DMF/
H2O, K1=2.45

Cd++ con none 20°C 0.0 C I K1=2.35 2000TMa (15846) 640
Also data for 0.06-0.69 mole fraction MeOH/H2O.

Cd++ sp none 25°C 0 M K1=-0.82 1994RIa (15847) 641
Method: Raman and IR. I=0 corr.

Cd++ EMF none 25°C 0.10M C T H K1=3.00 B2= 3.29 1989AGa (15848) 642
Method: Hg/Hg2SO4 electrode. Data for 20-35 C. K values extrapolated from
data for I<0.02 M. DH(K1)=64.3 kJ mol-1, DS=273; DH(K2)=53.6, DS=185.

Cd++ vlt NaClO4 25°C 1.00M U K1=0.85 1989Nwa (15849) 643

Cd++ oth none 25°C 0 U K1=2.45 1989SAb (15850) 644
Kso(CdSO4)=-0.04
Kso(CdSO4.H2O)=-1.59

*Ks(CdSO4.Cd(OH)2)=22.65

*Ks(2CdSO4.Cd(OH)2)=6.73

From published thermodynamic data.

Cd++ con none 25°C 0.0 C K1=2.34 1985SGd (15851) 645

Cd++ oth none 25°C 0.0 C H K1=2.30 1981YYa (15852) 646

Calculated from published conductivity data.

DH(K1)=8.07 kJ mol⁻¹, DS(K1)=71.2 J K⁻¹ mol⁻¹.

Cd++ oth oth/un 25°C 0.70M C K1=1.88 1980SRa (15853) 647

Recalculation of literature data with allowance for alkali and alkaline earth ion pairs. Medium: synthetic seawater, 0.70 M NaCl/NaClO4.

Cd++ cal oth/un 25°C 2.00M U H K1=0.74 1979GCa (15854) 648

DH1=6.44 kJ mol⁻¹

Cd++ cal oth/un 25°C 0.17M U H 1978ARa (15855) 649

DH(K1)=2.00 kJ mol⁻¹, DS=25.9. In 0.17 M CdCl2

Cd++ con mixed 25°C ? U T H K1=2.33 1976KAa (15856) 650

K1=2.24 (0 C); 2.30 (20 C); 2.35 (30 C); 2.43 (40 C); 2.46 (45 C)

Medium: Water-ethylene glycol mixture

Cd++ ISE NaClO4 25°C 3.00M U I M K1=0.72 B2=0.84 1975FCa (15857) 651

B3=1.16

B4=1.04

B(CdCl(SO4))=2.30

B(CdCl2(SO4))=2.26

B(CdCl(SO4)2)=2.30, B(CdCl3(SO4))=2.22, B(CdCl2(SO4)2)=2.34, B(CdBr(SO4)3)=1.23. Data also for I=1,2 and 3 and Cd/Zn polynuclear complexes

Cd++ con none 25°C 0.0 U K1=2.7 1975TAa (15858) 652

Cd++ ISE KNO3 20°C 0.01M U K1=2.34 1974GAa (15859) 653

Cd++ ISE NaClO4 25°C 3.0M U I K1=0.72 B2=0.84 1973FCa (15860) 654

B3=1.16

B4=1.00

B5=1.00

When I=0.5: K1=1.08, B2=1.96, B3=2.67; I=1.0: K1=0.95, B2=1.55, B3=1.76,

B4=2.3; I=2: 0.86, 1.31, 1.60, 1.5; I=0(corr): K1=2.03, K2=2.95

Cd++ cal none 25°C 0.0 U H 1973POa (15861) 655

DH(K1)=9.7 to 10.1 kJ mol⁻¹

Cd++ ISE diox/w 25°C 20% U TI K1=3.07 1972CAc (15862) 656

Medium: dioxan/H2O. 40% dioxan: K1=4.40; 60%: 7.60. Also 30, 35 C

Cd++ oth none 25°C 0.0 C K1=2.40 B2= 1.70 1972PIa (15863) 657

Calculated from published osmotic coefficient data.

Cd++	EMF NaClO4	25°C	3.0M	U	K1=0.71 B2=0.84 B3=1.32 B4=1.30 B(CdCl3L)=2.22	1971FCb (15864)	658
Medium: LiClO4. B(CdCl1L)=2.30, B(CdCl1L2)=2.30, B(CdCl1L3)=1.2 B(CdCl2L)=2.25, B(CdCl2L2)=2.5							
Cd++	ISE NaClO4	25°C	3.0M	U	K1=0.72 B2=0.85 B3=1.39 B4=1.03	1971FCc (15865)	659
Medium: LiClO4. Using polarography K1=0.65, B2=0.88, B3=1.18, B4=0.30, B5=1; Using cation exchange K1=0.71; anion exchange 0.75; also solubility							
Cd++	cal none	25°C	0.0	C H		1970LAe (15866)	660
DH(K1)=9.0 kJ mol ⁻¹ , DS(K1)=74.5 J K ⁻¹ mol ⁻¹ . Method: heat of dilution measurements.							
Cd++	cal NaClO4	25°C	2.0M	U H	K1=0.64	1969BGa (15867)	661
DH(K1)=7.9 kJ mol ⁻¹ , DS(K1)=38.5 J K ⁻¹ mol ⁻¹							
Cd++	cal none	25°C	0.0	U H	K1=2.55	1969IEa (15868)	662
DH(K1)=4.1 kJ mol ⁻¹ , DS(K1)=62.8 J K ⁻¹ mol ⁻¹							
Cd++	ISE oth/un	35°C	0.0	U	K1=2.11	1968PRd (15869)	663
Cd++	oth non-aq	260°C	100%	U	K1=0.72	1966IWa (15870)	664
Method: freezing point. Medium: molten LiNO3, m units							
Cd++	dis NaClO4	30°C	3.0M	U	K1=0.1 B2=1.0 B3=1.7	1965HSc (15871)	665
Cd++	oth oth/un	25°C	0.0	U	K1=2.01 K(Cd(H2O)2L=CdH2OL)=-0.20	1965POa (15872)	666
Method: complex dielectric constant							
Cd++	EMF oth/un	35°C	0.0	U	K1=2.17 B2=3.54	1962JPa (15873)	667
Method: Cd/Hg electrode							
Cd++	con oth/un	18°C	0.0	U	K1=2.3	1955RSa (15874)	668
Cd++	EMF NaClO4	25°C	3.0M	U	K1=0.90 B2=1.00 B3=2.04 ?	1952LEa (15875)	669
Cd++	sol oth/un	20°C	var	U	Kso(Cd(OH)1.56L0.22)=-11.64	1945FEa (15876)	670
Cd++	EMF NaClO4	25°C	3.0M	U	K1=0.90	1943LEa (15877)	671

Cd++ con oth/un 18°C 0.0 U K1=2.31 1938DAa (15878) 672
By Cd/Hg electrode K1=2.29

Cd++ con oth/un 18°C 0.0 U K1=2.42 1927DAb (15879) 673

S2O3-- H2L Thiosulfate CAS 73686-28-7 (177)
Thiosulfate;

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

Cd++ vlt NaClO4 25°C 0.50M U K1=2.84 2000LTa (16763) 674
Voltammetry using Hg/S2O3-- electrode.

Cd++ vlt NaClO4 30°C 1.0M C K1=4.00 B2= 5.13 1988GAb (16764) 675
B3=6.70

Method: polarography.

Cd++ vlt none 25°C 0.0 U K1=3.10 B2=4.78 1986CRb (16765) 676
B3=5.93

Cd++ vlt NaNO3 25°C 0.13M C K1=2.90 B2= 4.30 1985GEa (16766) 677
B3=5.21

Method: polarography.

Cd++ EMF KNO3 25°C 1.0M C T HM K1=3.72 B2= 5.69 1983BDa (16767) 678
B3=7.46
B(CdAL)=4.52
B(CdA2L)=5.60
B(CdAL2)=7.20

Method: Cd electrode. B(CdA2L2)=7.92. DH(K1)=7.5 kJ mol⁻¹, DS(K1)=96.
DH(B2)=-6.53, DS=88, DH(B3)=67.6, DS=368. A is thiourea. DH for ternary.

Cd++ vlt NaNO3 25°C 2.50M U K1=2.70 B2=3.70 1979JBa (16768) 679
B3=6.14

Cd++ vlt NaNO3 25°C 2.50M U M 1979JBa (16769) 680
B(CdL(itaconate))=4.19
B(CdL(itaconate)2)=4.59
B(CdL2(itaconate))=5.66
B(CdL(adipate))=3.57

B(CdL(adipate)2)=4.50; B(CdL2(adipate))=4.96;
B(CdL(phthalate))=4.45; B(CdL2(phthalate))=5.27

Cd++ cal oth/un 25°C 0.17M U H 1978ARa (16770) 681
DH(K1)=-0.17 kJ mol⁻¹, DS=49.7. In 0.17 M CdCl2

Cd++ vlt NaNO3 25°C 3.0M U M K1=2.70 B2=3.70 1978JBa (16771) 682
B3=6.14

Incl data on ternary complexes with oxalate, malonate, succinate

Cd++ vlt NaNO3 25°C 2.10M U M K1=2.70 B2=3.70 1977JBa (16772) 683
B3=6.14

Additional data on ternary complexes with maleate and malate

Cd++ cal R4N.X 25°C 0.50M U H K1=2.64 B2=5.17 1974ARa (16773) 684
DH(K1)=-0.17 kJ mol⁻¹

Cd++ ISE NaNO3 25°C 2.0M U K1=2.35 B2=4.33 1972NEb (16774) 685
K3=1.28
K4=1.08

Method: Ag electrode. With an amalgam electrode: K1=2.3, K2=1.87, K3=1.26,
K4=0.90

Cd++ ISE NaClO4 1.80M U 1971JGb (16775) 686
B(Cd(NH3)2L2)=9.46
B(Cd(NH3)L3)=9.10

Method: amalgam electrode

Cd++ vlt oth/un 27°C 2.0M U K1=2.89 B2=4.89 1971MAd (16776) 687
B3=6.23

Medium: NaClO3?

Cd++ ISE NaClO4 25°C 3.0M U K1=2.74 B2=4.65 1970PEa (16777) 688
B3=6.95
B4=7.12
B(Cd2L4)=11.2(?)

Method: amalgam electrode

Cd++ vlt oth/un 27°C 1.70M U T K1=2.08 B2=3.82 1969MAc (16778) 689
K3=1.66

Medium: NaClO3?; K1=2.29, K2=1.82, K3=1.61(45 C); 2.51, 1.89, 1.66(65 C)

Cd++ vlt alc/w ? 25% U I B2=5.6 1969SSf (16779) 690
B3=7.6

In aqueous soln: B3=6.3

Cd++ sp NaClO4 25°C 0.78M U B2=5.20 1968JGa (16780) 691
B3=6.19

Also Cd/Hg electrode; constants for mixed L/C2O4 complexes

Cd++ dis NaClO4 30°C 0.10M U K1=3.2 B2=5.0 1965HSc (16781) 692

Cd++ con oth/un 35°C var U K1=2.52 1959BGe (16782) 693

Cd++ vlt NaClO4 25°C 3.00M U I K1=2.74 B2=4.74 1959MGa (16783) 694
K3=2.03

In I=1.0 M: K1=2.82, K2=1.75, K3=1.82; also I=0.3, 0.1, 0.01 M. At I=0 corr.
K1=3.9, K2=2.3

Cd++ vlt KNO3 25°C 0.65M U I K1=3.2 B2=4.9 1959PRa (16784) 695

B3=6.05

Also K and B values for 25, 37.5, 50% EtOH

Cd++	vlt	KN03	25°C	2.40M	U					1958DAa (16785)	696
									B3=5.30		
Cd++	cal	NaN03	25°C	1.00M	U	H	K1=2.72	B2=5.24		1957YGa (16786)	697
							K3=1.09				
							DH(K1)=0 kJ mol ⁻¹ , DS=50 J K ⁻¹ mol ⁻¹ ; DH(K2)=-6.3, DS=25; DH(K3)=-7.9, DS=4				
Cd++	kin	none	15°C	0.0	U		K1=3.85			1956YAb (16787)	698
Cd++	sp	none	25°C	0.0	U	T H	K1=3.94			1955GMa (16788)	699
							K1=3.90(15 C), 3.96(35 C). DH(K1)=5.4 kJ mol ⁻¹ , DS=105 J K ⁻¹ mol ⁻¹				
Cd++	sol	oth/un	25°C	var	U					1954NRa (16789)	700
									B3=7.85		
Cd++	sol	none	25°C	0.0	U		K1=3.92	B2=6.44		1951DMb (16790)	701
Cd++	vlt	oth/un	25°C	var	U					1949SBa (16791)	702
									B3=6.33		
Cd++	ISE	oth/un	rt?	var	U		B2=5.8			1936FRa (16792)	703
							B3=6.7				
Cd++	ISE	oth/un	?	var	U					1904EUa (16793)	704
									B4=7.4		

Se--		H2L		Selenide						(6335)	
Selenide;											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
Cd++	oth	none	25°C	0.0	U					1964BUE (16936)	705
									Kso=-35.2		

SeCN-		HL		Selenocyanate						CAS 73102-11-2 (440)	
Selenocyanate;											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
Cd++	ISE	non-aq	25°C	100%	U		K1=2.82	B2=4.90		1981SSf (16968)	706
Medium: dimethylacetamide											
Cd++	ISE	none	25°C	0.0	U	H	K1=1.98			1975SSa (16969)	707
DH = -11.1 kJ mol ⁻¹ . DS = 0.75 J K ⁻¹ mol ⁻¹ .											
Cd++	cal	NaClO4	25°C	1.0M	U	H	K1=1.47	B2=2.30		1974AAb (16970)	708
									B3=2.85		

B4=4.04

DH(K1)=-10.04 kJ mol⁻¹, DS=-5.4 J K⁻¹ mol⁻¹; DH(K2)=-16.32, DS=-38.9;
DH(K3)=23.0, DS=90.0; DH(K4)=-36.8, DS=-100. Cd amalgam electrode also used

Cd++ EMF non-aq 25°C 100% U I K1=2.5 B2=4.04 1970SAe (16971) 709
B3=5.28
B4=6.0

Medium: DMF. In acetone; K1=10.4, B2=12.3, B3=14.6, B4=15.8, B5=16.0

Cd++ vlt KNO3 30°C 2.0M U K1=1.30 B2=2.00 1967HBa (16972) 710
B3=2.64
B4=3.00

Cd++ ISE KNO3 20°C 1.50M U I K1=1.35 B2=2.26 1962GAa (16973) 711
B3=4.00
B4=3.24
B5=3.89

Method: Cd/Hg electrode. In 'dil' soln. K1=1.36, Kso(CdL2)=-4.71.
In 60% acetone: B6=7.12

Cd++ vlt NaNO3 25°C 0.80M U 1956TOa (16974) 712
B4=3.6

SeO3-- H2L Selenite CAS 7783-00-8 (2391)
Selenite;

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

Cd++ con oth/un 18°C dil U 1968RVa (17030) 713
Kso=-8.30

Cd++ vlt NaNO3 25°C 1 ?M U B2=5.15 1957TOa (17031) 714

Cd++ sol oth/un 20°C var U 1956Che (17032) 715
Kso(CdL)=-8.89

SeO4-- H2L Selenate CAS 7783-08-6 (459)
Selenate;

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

Cd++ cal oth/un 25°C 0.17M U H 1978ARa (17095) 716
DH(K1)=3.93 kJ mol⁻¹, DS=32.2. In 0.17 M CdCl2

Cd++ con none 25°C 0.0 U K1=2.27 1934BAa (17096) 717

SiO3-- H2L Silicate CAS 7699-41-4 (747)
Silicate; SiO2(OH)2--

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

Cd++ oth none 25°C 0 U 1989SAb (17183) 718
K(CdSiO3(s)+2H=Cd+H4SiO4)=7.63

From published thermodynamic data.

Cd++ sol oth/un ? 0.0 U 1974ADc (17184) 719
Kso(CdL(H2O)n)=-14.24

SiW11039----- H8L (2464)
alpha-Heterosilicon-polytungstate;

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

Cd++ gl NaNO3 25°C 1.00M U K1=4.99 1984COa (17231) 720
K(beta1 isomer)=4.91
K(beta2 isomer)=4.86
K(beta3 isomer)=5.21

Te-- H2L Telluride (472)
Telluride;

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

Cd++ oth oth/un 25°C 0.0 U 1952LAa (17255) 721
Kso=-42

Data also for Tl+(Kso=-33.5), Pb++(Kso=-48)

VO4--- H3L CAS 15457-75-7 (1586)
Vanadate; VO2(OH)3-- or polymers

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

Cd++ vlt oth/un 37°C U 1969SJc (17374) 722
Ks(Cd(VO4)2)=-20.34
Ks(Cd2(V2O7))=-11.5

CH03F3S HL CAS 1493-13-6 (6755)
Trifluoromethanesulfonic acid; CF3SO3H

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

Cd++ nmr KCl 20°C 0.10M U B2=-2.40 2000XEa (17459) 723

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

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

Cd++ oth NaClO4 25°C 2.0M U K1=1.06 1990FTa (17568) 724
Methods: averaged results from potentiometric, polarographic and

spectrophotometric measurements.

Cd++ vlt KNO3 25°C 1.0M U K1=2.26 B2= 3.80 1989KNb (17569) 725
Method: polarography. Medium: pH 8.5.

Cd++ vlt NaClO4 25°C 2.0M C K1=1.06 B2= 0.99 1984TMe (17570) 726
B3=1.75
Method: polarography.

Cd++ EMF diox/w 25°C 50% U K1=2.10 1978SPa (17571) 727

Cd++ ISE NaClO4 25°C 8.00M U I K1=1.72 B2=2.82 1976FHa (17572) 728
B3=3.42
B4=3.19

Cd++ gl NaNO3 30°C 0.40M U K1=1.15 1970BTa (17573) 729

Cd++ EMF NaClO4 25°C 2.00M U K1=0.85 B2=0.84 1970FMa (17574) 730

Cd++ vlt NaClO4 25°C 2.00M U K1=1.04 B2=1.23 1968FPa (17575) 731
B3=1.75

Cd++ vlt KNO3 30°C 1.0M U K1=0.65 B2=0.40 1965GJa (17576) 732
B3=1.32

CH3NO L Formamide CAS 75-12-7 (3536)
Methanoic acid amide; HCO.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	alc/w	?	100%	U	I		K1=2.0 B2=2.5	1962MGa (17675)	733
Medium: 100% MeOH, 0.05 NaClO4. K1=0.36(40%), 0.79(77%); B2=0.42(77%), 1.43(85%), 1.57(92%)										

Cd++	vlt	alc/w	?	100%	U	I		K1=1.96 B2=2.8	1962MGa (17676)	734
B3=4.1 Medium: 100% EtOH, 0.05 NaClO4. K1=0.5(71%), 0.81(82%), 0.90(90%), 1.3(96%); B2=1.48(90%), 1.7(96%); B3=1.9(96%)										

CH3NO2 HL CAS 4312-87-2 (8245)
N-Formylhydroxylamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	30°C	0.50M	C			K1=4.53 B2= 8.28	1983BNa (17683)	735
Method: polarography.										

CH3O5P H3L Phosphonoformic CAS 4428-95-9 (5654)
Phosphonoformic Acid; O:P(OH)2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=5.45 K(Cd+HL)=2.57 K(CdL+H)=4.69	1994SCa (17696)	736

CH4N2O L Urea CAS 57-13-6 (2018)
Carbamide, Urea; (H2N)2CO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C			K1=0.84 B2= 1.36 B3=1.64 B4=1.94	1984CRa (17712)	737

Method: polarography

CH4N2S L Thiourea CAS 62-56-6 (51)
Thiocarbamide, Thiourea; (H2N)2CS

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C			K1=1.39	1988ECa (17772)	738

Method: differential pulse polarography, using anodically generated Hg++ as indicator ion.

Cd++	vlt	KNO3	25°C	0.10M	U			K1=1.30 B2=2.15 B3=2.41 B4=3.08	1986CRa (17773)	739
------	-----	------	------	-------	---	--	--	---------------------------------------	-----------------	-----

Cd++	vlt	none	25°C	0.0	U			K1=1.34 B2=2.48 B3=2.85 B4=3.11	1986CRb (17774)	740
------	-----	------	------	-----	---	--	--	---------------------------------------	-----------------	-----

Cd++	vlt	KNO3	25°C	0.10M	C			K1=1.30 B2= 2.15 B3=2.65 B4=3.08	1984CRa (17775)	741
------	-----	------	------	-------	---	--	--	--	-----------------	-----

Method: polarography

Cd++	vlt	NaClO4	25°C	1.0M	C	M		K1=1.30 B2= 2.30 B3=2.17 B4=3.74 B(CdLA)=5.87 B(CdLA2)=8.69	1984DOb (17776)	742
------	-----	--------	------	------	---	---	--	---	-----------------	-----

Method: polarography. Medium pH 6.8. B(CdL2A)=6.42.
H2A is glutamic acid.

Cd++	EMF	KNO3	25°C	1.0M	C	T HM		K1=1.8 B2= 2.74	1983BDa (17777)	743
------	-----	------	------	------	---	------	--	-----------------	-----------------	-----

Method: Cd electrode. DH(K1)=-31.5 kJ mol⁻¹, DS(K1)=-71.1 J K⁻¹ mol⁻¹.
DH(B2)=-53.05, DS(B2)=-126. Data for 10-40 C.

Cd++ vlt R4N.X 25°C 2.00M U I M K1=1.4 B2=2.4 1983Mca (17778) 744
B3=3.3
B4=4.0
K(CdL+Br)=3.0
K(CdL+2Br)=4.0

Medium: Et4NClO4; also data for 0.1, 0.2, 0.4 and 0.6 mole fraction of EtOH and of MeOH; other log K in water: [CdL3+Br] 4.8, [CdL2+2Br] 5.1

Cd++ vlt NaClO4 20°C 0.20M U I K1=1.63 B2=2.63 1982Mca (17779) 745
B3=3.1
B4=3.75

Medium: LiClO4. Also data for 0.1, 0.2, 0.4, 0.6 molar fraction of EtOH (where also CdL5 detected)

Cd++ vlt NaClO4 25°C 0.50M U I K1=1.40 B2=2.45 1982TCa (17780) 746
B3=2.74
B4=3.69

In 90% w/w MeOH/H2O, K1=3.60; B2=4.30; B3=6.00; B4=6.70; B5=7.89.
Data also for other MeOH/H2O and EtOH/H2O mixtures

Cd++ vlt KNO3 26°C 1.5M C M K1=1.38 B2= 2.17 1981DDb (17781) 747
B3=2.09
B4=3.40
B(Cd(SCN)L)=2.89
B(Cd(SCN)L2)=3.19

Method: polarography. B(CdAL)=2.32, B(CdAL2)=3.96; A is thioacetamide.

Cd++ vlt NaClO4 25°C 0.10M C K1=1.40 B2= 1.70 1981DDc (17782) 748
B3=1.60
B4=3.30

Method: polarography

Cd++ EMF KNO3 25°C 1.00M U T M K1=1.48 B2=1.92 1981MBa (17783) 749
B3=2.6
B4=3.67
B(CdLCl)=1.70
B(CdL2Cl)=3.08

B(CdL3Cl)=4.79, B(CdLCl2)=3.48, B(CdL2Cl2)=5.30. Also at 20, 30, 35, 40 C

Cd++ ISE mixed 25°C 82% U K1=4.40 B2=4.95 1979MTc (17784) 750
B3=5.20

Medium: 82% formamide

Cd++ ISE mixed 25°C 82% U K1=1.90 1979TBb (17785) 751
Medium: 82% formamide

Cd++ vlt alc/w 25°C 20% U M K1=0.18 B2=0.43 1977MTa (17786) 752
B3=0.53
B4=0.57
B5=0.63

Cd++ cal NaClO4 25°C 0.50M C H 1976MHc (17787) 753
By calorimetry: DH(K1)=-19.3 kJ mol⁻¹.

Cd++ ISE NaClO4 25°C 0.10M U I K1=1.54 B2=2.38 1975FFa (17788) 754
B3=3.26
B4=3.91
Medium: LiClO4; also in H2O/EtOH mix. 0; 10; 20; 40% w/w EtOH

Cd++ ISE oth/un 25°C 0.10M U K1=1.22 B2=2.12 1975FFb (17789) 755
B3=2.70
B4=3.15
In 40% EtOH/H2O: K1=1.34; B2=2.08; B3=2.39; B4=3.68
In 80%EtOH/H2O: K1=1.76; B2=3.18; B3=4.43; B4=5.30; B5=6.04

Cd++ gl oth/un 45°C 0.10M U T K1=1.08 B2=1.70 1975FFc (17790) 756
B3=1.84
B4=2.78
Medium: LiClO4

Cd++ EMF NaClO4 25°C 0.10M U I K1=1.23 B2=2.12 1974FFa (17791) 757
B3=2.70
B4=3.15
Medium: LiClO4

Cd++ ISE KNO3 25°C 0.10M U K1=1.43 B2=2.23 1971BLb (17792) 758
B3=2.75
B4=3.40

Cd++ vlt R4N.X 25°C 0.01M U I K1=1.32 B2=2.04 1971TMf (17793) 759
B3=2.20
B4=3.04
Medium: 0.1 NH4NO3. In 20%, 40%, 60%, 80% dioxan/H2O also.
In 80%: K1=3.74, B2=4.10, B3=4.85, B4=5.00, B5=6.45

Cd++ EMF R4N.X ? 1.00M U M 1969FDb (17794) 760
B(ML2(SCN)2)=5.34
B(ML2Cl2)=4.83
B(ML3SCN)=5.48
B(MLI3)=5.62
Data for other ternary complexes also, e.g. Cl, Br, I, NH3. Medium: NH4NO3

Cd++ gl oth/un ? 1.00M U M 1969FDb (17795) 761
B(CdLpy3)=4.74
B(CdL2py2)=4.86
B(CdL3py)=4.8
Medium: C5H5.HNO3

Cd++ ISE oth/un 30°C 0.10M U B2=2.6 1969GLa (17796) 762

Cd++ vlt R4N.X 25°C 0.01M U I K1=1.32 B2=2.04 1969TMa (17797) 763
 B3=2.2
 B4=3.04

Medium: 0-96% PrOH, 0.01 M NH4NO3
 K1(60%)=2.7, B2(60%)=3.99, B3(60%)=4.92, B4(60%)=5.15, B5(60%)=6.93

Cd++ EMF mixed 25°C 90% U I K1=3.05 B2=5.70 1966SLc (17798) 764
 K3=2.35
 K4=2.0
 K5=0.7
 K6=0.6

Medium: 90% acetone. K1=1.6(0%),2.1(50%),2.65(80%); K2=1.1(0%),1.65(50%).
 2.15(80%); K3=1(0%),1.4(50%),1.9(80%); K4=0.6(0%),1.1(50%),1.55;K5=0.45(80%)

Cd++ vlt alc/w 25°C 40% U I K1=1.60 B2=2.60 1964MTd (17799) 765
 B3=3.38
 B4=4.48
 B5=4.92

Medium: 40% MeOH,0.01 M NH4NO3. K1=1.32(0%),0.60?(20%),1.70(60%)3.0(80%);
 B2=2.04(0%),2.51(20%),3.30(60%),5.88(100%); At 0%:B3=2.20; B4=3.04.

Cd++ vlt alc/w 25°C 25% U I K1=1.30 B2=2.43 1963MTa (17800) 766
 B3=3.20
 B4=4.04

Medium: 25% EtOH, 0.01 M NH4Cl. K1=1.30(0%), 1.32(5%); B2=1.89(0%), 1.86(5%)
 2.60(55%),3.92(77%),5.0(91%); B3=2.20(0%),4.78(77%),6.6(91%); B4=3.20(0%)

Cd++ vlt KNO3 25°C 0.10M U K1=1.38 B2=1.71 1958LRa (17801) 767
 B3=1.60
 B4=3.55

 CH4N2Se L Selenourea CAS 630-10-4 (4207)
 Selenocarbamide; (H2N)2CSe

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

Cd++ ISE oth/un 30°C 0.10M U K1=0.9 B2=3.7 1969GLa (17864) 768

 CH4O3ClP H2L CAS 2565-58-4 (1973)
 Chloromethylphosphonic acid; Cl.CH2.PO3H2

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

Cd++ EMF NaNO3 25°C 0.10M U K1=2.43 1970TNa (17925) 769

 CH5N L Methylamine CAS 74-89-5 (155)
 Methylamine; CH3.NH2

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

Cd++ gl NaNO3 25°C 2.15M U H K1=2.745 B2=4.81 1953SPa (18008) 770
K3=1.131
K4=0.611

DH(B2)=-29 kJ mol⁻¹, DH(B4)=-58

CH5N3O L Semicarbazide CAS 563-41-7 (373)

Semicarbazide, N-Aminourea; H2N.CO.NH.NH2

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

Cd++ ISE oth/un 30°C 0.10M U K1=1.3 B2=3.0 1969GLa (18051) 771
By emf: K1=1.7, B2=3.1

Cd++ vlt NaNO3 25°C 1.0M U B2=3.3 1960TNa (18052) 772

CH5N3S L CAS 79-19-6 (372)

Thiosemicarbazide; H2N.CS.NH.NH2

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

Cd++ vlt NaNO3 25°C 0.13M C M K1=2.94 B2= 3.93 1985GEa (18068) 773
B3=5.66
B(CdL(S203))=5.84
B(CdL(S203)2)=7.79
B(CdL(S203)3)=7.03

Method: polarography.

Cd++ gl KNO3 25°C 0.50M U K1=1.81 B2=4.50 1979LGa (18069) 774
B3=5.39

Cd++ cal NaNO3 25°C 1.0M C H 1979TIb (18070) 775

DH(K1)=-19.74 kJ mol⁻¹, DS(K1)=-16.4 J K⁻¹ mol⁻¹; DH(K2)=-19.23,
DS(K2)=-24.7; DH(K3)=-15.25, DS(K3)=-28.7.

Cd++ cal NaNO3 25°C 1.0M C H 1979TRa (18071) 776

DH(K1)=-19.74 kJ mol⁻¹, DS(K1)=-16.4 J K⁻¹ mol⁻¹, DH(K2)=-19.23,
DS(K2)=-24.7, DH(K3)=-15.25, DS(K3)=-28.7.

Cd++ ISE NaNO3 25°C 1.00M C K1=2.60 B2=4.68 1976TRb (18072) 777
B3=5.86

Data also for substituted ligand

Cd++ ISE oth/un 30°C 0.10M U K1=2.3 B2=4.3 1969GLa (18073) 778

Cd++ vlt oth/un 30°C 0.10M U K1=2.7 B2=4.4 1969GLa (18074) 779
B3=6.0

Cd++ ISE NaNO3 25°C 1.0M U K1=2.57 B2=4.70 1963CRa (18075) 780
B3=5.86

Cd++ vlt NaNO3 25°C 1.0M U B2=5.5 1960TNa (18076) 781

CH5N3Se L CAS 21198-79-8 (371)
Selenosemicarbazide; H2N.CSe.NH.NH2

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

Cd++ vlt oth/un 30°C 0.10M U K1=2.9 B2=5.0 1969GLa (18087) 782
B3=6.8

By Cd electrode K1=2.1, B2=4.8

CH5O3P H2L CAS 13590-71-1 (1752)
Methylphosphonic acid; CH3.PO3H2

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.90 1992SCa (18117) 783

CH5O4P H2L CAS 86703-09-5 (1751)
Methylphosphoric acid; CH3OP(O)(OH)2

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.52 1996SSa (18167) 784

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

Cd++ gl NaNO3 25°C 0.10M C K1=5.14 1994SCa (18215) 785
K(Cd+HL)=2.02
K(CdL+H)=6.96

CH6N4O L Carbohydrazide CAS 497-18-7 (3537)
Carbohydrazide; H2N.NH.CO.NH.NH2

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

Cd++ vlt NaClO4 20°C 1.0M U K1=2.70 B2=3.65 1966KSb (18237) 786
B3=5.61
B4=5.26

Cd++ gl NaClO4 20°C 0.10M U K1=2.37 1964COd (18238) 787

CH6O7P2 H3L CAS 56399-35-0 (7664)
Methyldiphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=4.27 1999SSa (18306) 788

 C2H2O4 H2L Oxalic acid CAS 144-62-7 (24)
 Ethanedioic acid; (COOH)2

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

Cd++ vlt oth/un 25°C 0.1M U K1=2.7 1995FFa (18683) 789

Cd++ vlt NaClO4 25°C 1.00M U M K1=2.68 B2=4.33 1992UKa (18684) 790
 Ternary complexes with D-penicillamine and histidine.

Cd++ vlt KNO3 30°C 0.10M C M K1=2.60 B2= 4.66 1991STb (18685) 791
 Method: polarography. Medium pH 9.5.
 Ternary complexes with 2-amino-3-hydroxypyridine

Cd++ vlt KNO3 30°C 0.10M C M K1=2.60 B2= 4.66 1991STb (18686) 792
 B(CdAL)=10.7
 Method: polarography, medium pH 9.5. HA is 2-amino-3-hydroxypyridine.

Cd++ dis oth/un RT 0.10M C K1=3.8 1990SKg (18687) 793
 Method: extraction of 109Cd as Cd(py)2I2 from 0.01 M KI solution into
 pyridine/benzene.

Cd++ vlt KNO3 25°C 1.00M U K1=2.6 B2=4.33 1989NWa (18688) 794
 B3=4.89

Cd++ vlt NaClO4 30°C 1.0M C K1=2.477 B2= 3.91 1988GMc (18689) 795
 B3=5.04
 Method: polarography.

Cd++ gl NaClO4 30°C 1.0M U K1=2.98 1988GMd (18690) 796

Cd++ vlt KNO3 42°C 1.0M C M K1=2.00 B2= 4.69 1988KHa (18691) 797
 B3=7.08
 B(Cd(ala)L)=6.24
 B(Cd(ala)2L)=9.23
 Method: polarography. Medium pH 4.80.

Cd++ vlt NaNO3 25°C 1.00M U K1=2.42 B2=3.86 1987GAa (18692) 798
 B3=5.10

Cd++ vlt NaNO3 25°C 2.0M C K1=2.9 B2= 4.00 1987KSg (18693) 799
 B3=4.9
 Method: polarography.

Cd++ vlt NaNO3 25°C 1.0M U M K1=2.65 B2=4.10 1985KAa (18694) 800
 B3=5.07
 B(CdLA)=6.78; B(CdL2A)=7.53; B(CdLA2)=8.20. A=1,3-diaminopropane

Cd++	vlt NaNO3	25°C	1.00M	U				1985KIa (18695)	801
							B3=5.16		

Cd++	vlt NaNO3	25°C	2.0M	C		K1=2.9	B2= 4.00	1984KSc (18696)	802
						B3=4.90			
Method: polarography. Medium pH 8.0.									

Cd++	vlt KNO3	30°C	1.00M	U		K1=2.82	B2=4.22	1983GCa (18697)	803
						B3=5.16			

Cd++	sol KNO3	25°C	1.00M	U		K1=2.66	B2=4.29	19830Wb (18698)	804
						B3=5.00			
Kso=-6.47									

Cd++	vlt KNO3	30°C	1.00M	U	M			1982GSa (18699)	805
B(Cd(2-mercaptobenzoate)2L) = 14.89									

Cd++	vlt KNO3	30°C	1.50M	C		K1=2.45	B2=3.84	1982SCa (18700)	806
						B3=4.89			

Cd++	vlt KNO3	30°C	0.30M	U	M	K1=2.94	B2=4.30	1981AAb (18701)	807
						B3=5.44			
						K(CdL+Gly)=3.49			
						K(Cd(Gly)+L)=2.12			
						K(CdL2+Gly)=3.15			
K(CdL(Gly)+Gly)=2.75, K(Cd(Gly)2+L)=1.26, B(CdL(Gly))=6.43									

Cd++	vlt KNO3	30°C	0.30M	U	M	K1=2.94	B2=4.30	1981APa (18702)	808
						B3=5.44			
						B(CdL(Ala)2)=8.18			
						B(CdL2Ala)=7.11			
						B(CdLAla)=5.90			
Where HA is valine									

Cd++	vlt KNO3	30°C	0.30M	C	M	K1=2.94	B2= 4.30	1981APd (18703)	809
						B3=5.44			
Method: polarography. Medium pH 8.0.									

Cd++	vlt oth/un	25°C	1.0M	C	M	K1=2.61	B2= 4.14	1980LEa (18704)	810
						B3=5.04			
						B(Cd(en)L)=7.90			
						B(Cd(en)2L)=11.29			
						B(Cd(en)L2)=8.39			
Method: re-analysis of published polarographic data.									
Medium not stated.									

Cd++	vlt KNO3	20°C	2.0M	C	T	K1=3.00	B2= 4.30	1980SGg (18705)	811
						B3=5.40			
Method: polarography. At 30C, K1=2.70, B2=3.80, B3=4.80.									

Cd++ vlt KNO3 20°C 2.0M C T HM 1980SGg (18706) 812
B(CdAL)=9.845
B(CdAL2)=10.30
B(CdA2L)=11.95

Method: polarography. A is 1,3-diaminopropane.
DH(CdAL)=-461.7 kJ mol⁻¹, DH(CdAL2)=-176.5, DH(CdA2L)=-68.1.

Cd++ gl KNO3 25°C 2.5M M K1=4.00 1979FLc (18707) 813

Cd++ vlt NaNO3 25°C 3.0M U K1=2.70 B2=4.07 1978JBa (18708) 814
B3=5.14

Cd++ sol oth/un 20°C 2.10M U M 1978KUa (18709) 815
B(CdLA)=5.40
B(CdLA2)=5.87
B(CdLA3)=6.54
B(CdLB)=5.69

Kso=-5.23. HA=glycolic acid, HB=lactic acid. B(CdLB2)=6.36

Cd++ gl NaClO4 25°C 1.00M C K1=2.75 1975BOb (18710) 816

Cd++ vlt KNO3 25°C 2.00M U M K1=2.78 B2=6.78 1975DJB (18711) 817
B3=5.20
K(Cd+L+HA)=3.737
K(Cd+2L+HA)=4.03

H2A=salicylic acid

Cd++ vlt KNO3 27°C 2.10M U M 1973KCa (18712) 818
B(CdLA)=3.51
B(CdLA2)=3.40
B(CdL2A)=6.02

H2A=tartaric acid

Cd++ vlt KNO3 27°C 2.10M U K1=2.90 B2=4.00 1973KGa (18713) 819
B3=5.08

Cd++ ISE NaNO3 25°C 2.00M U M B2=5.27 1972FDd (18714) 820
B(CdCl+2L)=5.09
B(CdBr+2L)=5.35
B(CdI+2L)=5.38
B(Cd(SCN)+2L)=5.15

K(CdCl2+2L)=4.66, K(CdBr2+2L)=5.08, K(CdI2+2L)=6.22, K(Cd(SCN)2+2L)=5.01,
K(CdA+2L)=5.69, K(CdA2+2L)=6.74, A=thiourea. K(Cd(S2O3)+2L)=5.71

Cd++ vlt KNO3 27°C 2.10M U M K1=2.90 B2=4.00 1972KGb (18715) 821
B3=5.08
B(CdL2A)=4.98
B(CdLA2)=4.02

H2A=succinic acid

Cd++ sol oth/un 20°C 2.10M U K1=5.05 1971KSd (18716) 822

Cd++ vlt KNO3 25°C 1.00M U M K1=2.52 B2=4.20 1968VBb (18717) 823
B(CdLA)=5.12
B(CdL2A)=6.29
B(CdLA2)=6.83

A=2-aminoethanol

Cd++ vlt KNO3 30°C 1.50M U K1=2.78 B2=4.00 1967JKa (18718) 824
B3=4.90

Cd++ gl KNO3 25°C 1.0M U M K1=3.20 B2=4.57 1967Kwa (18719) 825
B(Cd(en)L)=7.73
B(Cd(en)L2)=9.49
B(Cd(en)2L)=11.24
K(CdL(en)2+en=Cd(en)3+L)=0.99
K3=0.96, K(Cd(en)+L)=2.12, K(CdL(en)+en=Cd(en)2+L)=2.45

Cd++ vlt NaClO4 ? 0.25M U K1=2.05 B2=5.55 19670Ma (18720) 826
B3=5.15

Cd++ dis NaClO4 30°C 1.0M U K1=3.0 B2=4.7 1965HSc (18721) 827

Cd++ sol KNO3 25°C 2.0M U M K1=5.37 1963FVa (18722) 828
K(Cd(en)L)=8.29

Cd++ dis NaClO4 20°C 0.10M U K1=3.71 1963STc (18723) 829

Cd++ vlt NaNO3 25°C 1.0M U I K1=2.61 B2=4.11 1962MRa (18724) 830
B3=5.06
In 1 NaNO3, heavy water: K1=2.66, B2=4.20, B3=5.17

Cd++ ix oth/un ? ? U K2=5.65 1957KPb (18725) 831

Cd++ sol none 25°C 0.0 U B2=5.66 1951BAa (18726) 832

Cd++ sol none 25°C 0.0 U K1=4.00 B2=5.77 1940VBa (18727) 833

Cd++ ISE none 25°C 0.0 U K1=3.52 B2=5.29 1937CVa (18728) 834

Cd++ con none 18°C 0.0 U K1=3.89 1932MDa (18729) 835

C2H3NO4 HL CAS 625-75-2 (2968)

Nitroacetic acid; O2N.CH2.COOH

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

Cd++ kin oth/un 18°C 0.20M U K1=0.19 1949PEa (19203) 836
Medium: Ba(NO3)2

C2H3N3 HL 1,2,4-Triazole CAS 288-88-0 (381)
 1,2,4-Triazole; cyclo(-NH.N:CH.N:CH-) C2H3N3

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

 Cd++ cal NaNO3 25°C 1.00M U H 1986ARa (19226) 837
 K(Cd+HL)=1.50
 K(Cd+2HL)=2.55
 DH(Cd+HL) = -11.55, DH(CdHL+HL) = -6.2 kJ mol⁻¹

 Cd++ vlt NaNO3 25°C 2.0M C 1983KSb (19227) 838
 K(Cd+2HL)=2.50
 Method: polarography. Medium pH 6.0

 Cd++ gl KNO3 25°C 0.50M U 1980LKb (19228) 839
 K(Cd+HL)=1.50
 K(Cd+2HL)=2.56
 K(Cd+3HL)=3.16

 C2H3N3S L CAS 4005-51-0 (1426)
 2-Amino-1,3,4-thiadiazole; C2HN2S.NH2

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

 Cd++ gl KNO3 25°C 0.50M U K1=1.01 B2=1.77 1982GLa (19251) 840
 B3=2.21
 B4=2.98

 C2H3O2Cl HL Chloroacetic CAS 79-11-8 (34)
 Chloroethanoic acid; ClCH2.COOH

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

 Cd++ gl KNO3 20°C 2.5M M K1=1.12 1979FLc (19345) 841
 For 40 C K1=1.23; for 60 C K1=1.35

 Cd++ gl NaNO3 30°C 0.40M U K1=0.99 1970BTa (19346) 842

 Cd++ vlt NaClO4 18°C 2.00M U K1=0.95 B2=0.60 1970FBa (19347) 843
 B3=0.78
 B4=0.85

 Cd++ EMF NaClO4 18°C 2.00M U K1=0.84 B2=0.57 1970FMa (19348) 844
 B3=1.54

 Cd++ ISE NaClO4 20°C 1.0M U K1=1.2 1934FRa (19349) 845

 C2H4N4 HL CAS 61-82-5 (1265)
 3-Amino-1,2,4-triazole; C2H2N3.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U	I			1997DBa (19473)	846
								K(Cd+HL)=2.63 K(Cd+2HL)=4.12 K(Cd+3HL)=4.95		

Data also for I=0.5 and 1.0 M

Cd++	gl	KNO3	25°C	0.50M	U				1980LKB (19474)	847
								K(Cd+HL)=1.39 K(Cd+2HL)=2.49 K(Cd+3HL)=3.30		

C2H4N4 HL CAS 584-13-4 (819)
4-Amino-1,2,4-triazole; C2H2N3.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U				1980LKB (19486)	848
								K(Cd+HL)=0.70 K(Cd+2HL)=1.08		

C2H4N4S HL CAS 16691-43-3 (9032)
3-Amino-5-mercapto-1,2,4-triazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=2.56	2003AHa (19495)	849

C2H4OS2 HL CAS 2042-42-4 (592)
(Methoxy)dithiomethanoic acid; CH3O.CS.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.40M	C				1984HSb (19511)	850
								B3=12.86		

Method: polarography.

Cd++	dis	KNO3	25°C	1.00M	U			B2=7.0 B3=9.4	1983SAa (19512)	851
------	-----	------	------	-------	---	--	--	------------------	-----------------	-----

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
Cd++	EMF	oth/un	25°C	0.0	C	TIH		K1=1.94 B2= 3.15	2000BPb (19814)	852

Pt/H2 electrode in CF3SO3Na medium. Values extrap from data for 0.1 to 1.0 m and 50-250 C. DH(K1)=-15 kJ mol⁻¹, DS=-13 J K⁻¹ m⁻¹; DH(B2)=5, DS=75

Cd++ gl alc/w 25°C 100% M H K1=5.6 B2=9.3 1994MPc (19815) 853
Medium: MeOH. DH(K1)=23.2 kJ mol⁻¹, DS=185 J K⁻¹ mol⁻¹; DH(B2)=35.8, DS=298

Cd++ oth NaClO4 25°C 2.0M U K1=1.33 1990FTa (19816) 854
Methods: averaged results from potentiometric, polarographic and spectrophotometric measurements.

Cd++ dis oth/un RT 0.10M C K1=1.95 1990SKg (19817) 855
Method: extraction of 109Cd as Cd(py)2I2 from 0.01 M KI solution into pyridine/benzene.

Cd++ vlt KNO3 25°C 1.0M C K1=2.35 B2= 3.86 1989NKc (19818) 856
Method: polarography. Medium pH 8.5.

Cd++ vlt NaClO4 25°C 2.0M C K1=1.30 B2= 1.94 1984TMe (19819) 857
B3=2.60
Method: polarography.

Cd++ ISE KNO3 25°C 0.10M U K1=1.52 1983YWa (19820) 858

Cd++ ix none 23°C 0.0 U K1=1.14 B2=1.27 1980PSb (19821) 859

Cd++ vlt NaClO4 25°C 2.00M U K1=1.22 B2=2.02 1980TMa (19822) 860
B3=2.61

Cd++ gl KNO3 20°C 2.5M M K1=1.17 1979FLc (19823) 861
For 40 C K1=1.30; for 60 C K1=1.47

Cd++ vlt NaClO4 25°C 0.40M U I K1=6.5 B2=11.5 1978KOa (19824) 862
B3=17.6
chronopotentiometry at a stationary mercury electrode, also relative stabilities in 0.8M LiClO4/LiAcO

Cd++ EMF diox/w 25°C 50% U K1=2.45 1978SPa (19825) 863

Cd++ ISE NaClO4 25°C 8.00M U I K1=2.92 B2=4.34 1976FHa (19826) 864
B3=5.72

Cd++ gl oth/un 25°C 0.10M U K1=3.43 B2=8.0 1975SNb (19827) 865
Medium: 0.1 M LiClO4/CH3COOH. K1: Cd(ClO4)2+LiOAc=CdLClO4+LiClO4.
Bn: Cd(ClO4)2+2LiOAc=ZnL2+2LiClO4

Cd++ vlt NaClO4 0°C 0.10M U K1=1.48 B2=2.42 1975VMa (19828) 866

Cd++ vlt NaClO4 0°C 0.10M U K1=1.48 B2=2.42 1975VMa (19829) 867

Cd++ kin NaClO4 25°C 1.00M U K1=1.26 1973HHb (19830) 868

Cd++ ISE alc/w 25°C 50% U I K1=1.78 B2=2.11 1971NVb (19831) 869
B3=2.23

B4=2.41

Medium: 0-80% EtOH, 2.0 M (LiNO₃, Li acetate). 0%: K1=0.74, B2=1.08, B3=1.40, B4=1.04. etc. Data for many other % EtOH.

Cd++	gl	NaNO ₃	30°C	0.40M	U	K1=1.30		1970BTa (19832)	870
Cd++	EMF	NaClO ₄	25°C	2.00M	U	K1=1.08 B3=2.09	B2=1.69	1970FMa (19833)	871
Cd++	ISE	NaClO ₄	25°C	3.00M	U	K1=1.38 B3=2.72	B2=1.84	1969WAa (19834)	872
Cd++	vlt	NaClO ₄	25°C	2.00M	U	K1=1.30 B3=2.15 B4=1.74	B2=1.95	1968FPa (19835)	873
Cd++	ISE	NaClO ₄	25°C	0.25M	U I	K1=1.26 B3=2.70	B2=2.00	1968GEa (19836)	874
K1=1.19(I=0.5), 1.17(I=1), 1.23(I=2); B2=1.90(I=0.5), 1.82(I=1), 1.98(I=2); B3=2.17(I=0.5), 2.04(I=1), 2.13(I=2). At I=3: K1=1.32, B2=2.32									
Cd++	vlt mixed	?	100%	U	I M			1965ATa (19837)	875
K(CdA ₂ +2NaL=CdL ₂ +2NaA)=5.9 K(CdL ₂ +2NaL=Na ₂ CdL ₄)=1.5									
Medium: Ethanoic acid. With 90% acetic anhydride, K(CdA ₂ +2NaL)=12.6. A=ClO ₄ -									
Cd++	dis	NaClO ₄	30°C	1.0M	U	K1=0.7	B2=1.4	1965HSc (19838)	876
Cd++	gl	oth/un	25°C	0.0	U	K1=1.928	B2=3.15	1964AMa (19839)	877
Cd++	gl	non-aq	25°C	100%	U	K2=7.54		1964KLa (19840)	878
Medium: ethanoic acid									
Cd++	gl	NaClO ₄	20°C	0.10M	U	K1=1.61	B2=2.68	1962KPa (19841)	879
Cd++	vlt	oth/un	15°C	0.20M	U T	K1=1.43		1960TKb (19842)	880
K1=1.20(25 C); 1.30(35 C)									
Cd++	gl	oth/un	25°C	0.10M	U	K1=1.5		1960YYa (19843)	881
Cd++	sol	oth/un	35°C	0.0	U	K1=1.70		1955BAa (19844)	882
Cd++	gl	oth/un	30°C	?	U	K1=1.75	B2=2.75	1953APa (19845)	883
Cd++	ISE	NaClO ₄	25°C	3.0M	U	K1=1.30 K3=0.14 K4=-0.42	B2=2.28	1946LEa (19846)	884
Cd++	oth	oth/un	20°C	0.55M	U	K1=1.7		1934FRa (19847)	885

Cd++ oth oth/un 25°C 0.50M U K1=2.0 B2=2.70 1910JAa (19848) 886
K3=0.6

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

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

Cd++ gl oth/un 25°C 3.0M C M K1=4.34 B2= 6.49 1983M0d (20292) 887
B(CdHL)=11.08
B(CdAL)=7.93

Medium: 3.0 M LiClO4. H2A is 2-mercaptopropanoic acid.

Cd++ gl oth/un 30°C 0.50M U K1=3.3 1982RAa (20293) 888

Cd++ vlt diox/w 22°C 20% U 1969MIa (20294) 889
B3=7.65

Medium: 20% dioxan, 0.5 M

C2H4O3 HL Glycolic acid CAS 79-14-1 (33)
2-Hydroxyethanoic acid; HO.CH2.COOH

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

Cd++ sol oth/un 20°C 2.10M U M 1978KUa (20473) 890
B(CdL(oxalate))=5.40
B(CdL2(oxalate))=5.87
B(CdL3(oxalate))=6.54

Cd++ gl NaClO4 25°C 1.00M C K1=1.22 B2=2.08 1975BJa (20474) 891

Cd++ vlt NaClO4 18°C 2.00M U K1=1.41 B2=2.11 1970FBa (20475) 892
B3=2.62
B4=2.18

Cd++ EMF NaClO4 25°C 2.00M U K1=1.51 B2=1.84 1970FMa (20476) 893

Cd++ ISE NaClO4 25°C 3.00M U K1=1.68 B2=2.74 1969WAa (20477) 894
B3=3.37

Cd++ vlt KNO3 30°C 1.0M U K1=1.26 B2=2.15 1966JGc (20478) 895

Cd++ con oth/un 25°C ->0 U K1=1.866 1954EMa (20479) 896

Cd++ oth oth/un 20°C dil U K1=1.9 1934FRa (20480) 897

C2H5NO2 HL Glycine CAS 56-40-6 (85)
2-Aminoethanoic acid; H2N.CH2.COOH

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

Cd++ vlt NaNO3 25°C 0.50M C I K1=4.51 B2= 7.76 2001CNa (21351) 898
B3=10.01
B(CdHL)=9.9
K(Cd+2L+OH)=11.59

Method: DPP. Also data for I=0.10 M NaNO3. By ISE, 0.50 M NaNO3: K1=4.18,
K1=4.18, B2=7.44, B3=9.67, B(CdHL)=9.93, K(Cd+2L+OH)=11.29

Cd++ gl NaNO3 25°C 0.10M C M K1=4.30 2000KAb (21352) 899
K(CdA+L)=1.65

H2A=Dipicolinic acid.

Cd++ gl alc/w 37°C 40% C M K1=5.13 B2= 9.35 1998AAa (21353) 900
B(CdLA)=9.43
K(CdL+A)=4.30
K(CdA+L)=4.39
B(CdLC)=9.38

HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15
H2A:5-[o-hydroxyphenylazo] barbituric acid. K(CdL+C)=4.25, K(CdC+L)=4.53.

Cd++ gl KNO3 35°C 0.10M C M K1=4.39 B2= 7.75 1998ZWa (21354) 901
B(CdH-1L2)=-1.35
B(CdH-2L2)=-11.16

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime

Cd++ gl alc/w 37°C 40% C K1=5.13 B2= 9.35 1997AAb (21355) 902
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.

Cd++ vlt KNO3 25°C 0.10M U I K1=4.0 B2= 7.66 1996CSa (21356) 903
Method: anodic stripping voltammetry. At I = 0.002 M, K1=4.7, B2=8.6.

Cd++ gl none 25°C 0.0 C TIH K1=4.69 B2= 8.50 1995CDc (21357) 904
B3=10.60

Data for 0-0.09 M and 5-45 C. DH(K1)=-8.8 kJ mol⁻¹, DH(B2)=-22.6,
DH(B3)=-35.9

Cd++ gl KNO3 RT 0.10M C K1=4.03 B2=7.46 1995CGb (21358) 905
Method:rapid gradient flow-injection titration with potentiometric detection
(glass electrode). Batch titration: K1=4.08, B2=7.64.

Cd++ gl NaClO4 25°C 0.20M U T M K1=4.24 B2= 7.93 1993PPa (21359) 906
K(CdA+L)=4.20

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl alc/w 37°C 70% U M K1=5.36 B2=10.24 1993ZLa (21360) 907
Medium: 70% v/v EtOH/H2O, 0.1 M KNO3. B(CdAL)=12.72, A=vitamin D3

Cd++ vlt KNO3 20°C 0.10M C K1=3.96 B2= 7.68 1992CSd (21361) 908
Method: carbon/Hg microelectrode. Medium: 0.10 M KNO3, pH 8.1(borate

buffer). Using a dme, $K_1=3.93$, $B_2=7.57$.

Cd++ gl NaClO4 25°C 0.20M U K1=5.11 B2=9.12 1992VBa (21362) 909

Cd++ gl NaNO3 25°C 0.15M C TIH R K1=4.28 B2=7.72 1991KSa (21363) 910
B3=9.93

IUPAC evaluation. $DH(K_1)=-8.9$, $DH(B_2)=-22.5$, $DH(B_3)=35.9$ kJ mol⁻¹

Cd++ vlt NaClO4 25°C 0.40M C K1=4.94 B2= 8.30 1991YNb (21364) 911
B3=9.73
K(Cd+OH+L)=6.57
K(Cd+OH+2L)=9.59
K(Cd+2OH+L)=9.31

Method: polarography. $K(Cd+2OH+2L)=11.81$.

Cd++ gl KNO3 25°C 0.10M C T K1=4.24 B2=7.85 1990BBa (21365) 912
Using cyclic voltammetry: $B_2=7.74$, $B_3=9.25$

Cd++ gl KNO3 37°C 0.15M C M K1=4.26 B2=7.78 1990KDa (21366) 913
B3=10.11
B(CdH-2L)=-14.41

Ternary complexes with imidazole (A): $B(CdAL)=7.03$; $B(CdA2L)=9.37$;
 $B(CdH-1AL)=-1.28$

Cd++ vlt KNO3 35°C 0.50M C M K1=4.45 B2= 6.96 1990KKd (21367) 914
B3=9.39
B(Cd(bpy)L)=8.18
B(Cd(bpy)2L)=10.53
B(Cd(bpy)L2)=10.17

Method: polarography. Medium pH 7.0-10.5

Cd++ nmr NaNO3 25°C 0.40M U M 1990KRa (21368) 915
 $K(Cd(NTA)+L)=3.26$

Cd++ vlt NaNO3 25°C 0.10M U K1=4.7 B2=7.51 1990KZa (21369) 916
K3=2.75

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (21370) 917
 $K(Cd(nta)+L)=2.93$

Cd++ dis oth/un RT 0.10M C K1=5.0 B2= 7.80 1990SKg (21371) 918
Method: extraction of ¹⁰⁹Cd as Cd(py)₂I₂ from 0.01 M KI solution into
pyridine/benzene.

Cd++ vlt NaNO3 25°C 0.10M U K1=4.70 B2=7.51 1990TZa (21372) 919
K3=2.75

Cd++ ISE NaClO4 25°C 1.00M C K1=4.36 B2=7.99 1989BFa (21373) 920
B3=10.13
B(CdHL)=10.52

Cd++ vlt KNO3 25°C 0.10M C K1=4.05 B2= 7.37 1989BSa (21374) 921
B3=9.66

Method: SW voltammetry

Cd++ vlt KNO3 25°C 1.0M U M K1=4.30 B2= 7.60 1989KNb (21375) 922
K3=2.04
B(CdAL)=6.30
B(CdA2L)=8.60
B(CdAL2)=9.00

Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.30 B2= 7.60 1989NKc (21376) 923
B3=9.64
B(CdAL)=6.43
B(CdAL2)=9.18
K(CdAL+A)=2.35

Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=8.78.

Cd++ gl KNO3 35°C 0.20M U M K1=4.12 B2=7.57 1989RVa (21377) 924
K(CdA+L)=3.56

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 25°C 1.00M M K1=4.36 B2=7.99 1988BFa (21378) 925
B3=10.13(also Cd/Hg electrode)
B(CdHL)=10.52

Cd++ gl NaClO4 27°C 0.20M U M K1=4.24 B2= 7.93 1988PPc (21379) 926
K(CdA+L)=4.20

A is 2,2'-dipyridylamine.

Cd++ vlt KCl 42°C 1.0M C K1=4.00 B2= 6.47 1987NKa (21380) 927
B3=9.86

Method: polarography. Medium pH 9.20.

Cd++ gl KNO3 25°C 0.20M C K1=4.26 B2= 7.83 1986SVa (21381) 928
B3=10.51

Cd++ gl NaCl 37°C 0.15M U K1=3.834 B2=6.88 1985CFb (21382) 929
B3=8.92
B(CdH-2L2)=-13.55

Cd++ vlt KNO3 30°C 0.10M C K1=4.18 B2= 7.20 1985KCb (21383) 930
B3=9.95

Method: polarography. Medium pH 8.9.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.30 B2= 7.70 1984CGc (21384) 931
B3=9.80
B(CdAL)=9.36
B(CdAL2)=11.75

B(CdA2L)=12.42

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl oth/un 30°C 0.20M U M K1=4.24 1984J0b (21385) 932
K(Cd(bpy)+L)=4.20

Medium: not stated.

Cd++ vlt KNO3 25°C 1.00M U M T 1984MRa (21386) 933
B(CdL(en))=9.77
B(CdL2(en))=10.7
B(CdL(en)2)=11.2
B(CdL(IDA))=10.2

Cd++ gl NaClO4 20°C 0.71M U K1=3.88 B2= 7.35 1983GVb (21387) 934
By differential pulse polarography: K1=3.96, B2=7.25 (0.67 M NaClO4);
K1=4.19, B2=7.27 (synthetic sea water, 0.72 M).

Cd++ vlt KNO3 30°C 1.00M U M 1983ISc (21388) 935
B(CuL2A)=11.52
B(CuLA2)=11.91

A=1,2-diaminopropane

Cd++ ISE KNO3 25°C 0.10M U K1=4.53 B2=8.11 1983YWa (21389) 936

Cd++ gl oth/un 25°C 3.00M U M T K1=4.01 B2=7.49 1982M0b (21390) 937
B(CdAL)=7.47

Medium: LiClO4. HA=alanine

Cd++ vlt KNO3 RT 1.0M C M B2=7.60 1982RBa (21391) 938
B3=9.40
B(Cd(en)L)=9.11
B(Cd(en)L2)=11.23
B(Cd(en)2L)=12.02

Method: polarography.

Cd++ vlt KNO3 30°C 0.30M U T K1=4.31 B2=7.92 1981AAb (21392) 939
B3=10.06

Cd++ vlt NaClO4 25°C 0.10M C M 1981DDc (21393) 940
K(Cd+HL)=0.78
K(Cd+3HL)=1.36
K(Cd+2A+HL)=2.50
K(Cd+A+2HL)=2.20

Method: polarography. A is thiourea.

Cd++ gl NaClO4 25°C 3.00M U T K1=4.28 B2=7.80 1981MAa (21394) 941

Cd++ gl KNO3 30°C 0.10M U M 1980MSb (21395) 942
B(Cd(His)+L)=3.75

Cd ⁺⁺	gl	KNO ₃	25°C	2.5M	M		K ₁ =4.29		1979FLc (21396)	943
Cd ⁺⁺	vlt	NaClO ₄	35°C	0.02M	U	T	K ₁ =4.26	B ₂ =7.85	1979JKa (21397)	944
							B ₃ =10.07			
Cd ⁺⁺	gl	NaNO ₃	20°C	0.10M	U		K ₁ =4.22	B ₂ =7.69	1978LEb (21398)	945
Cd ⁺⁺	EMF	NaClO ₄	25°C	1.00M	C		K ₁ =4.36	B ₂ =7.99	1976B0c (21399)	946
							B ₃ =10.13			
							B(CdHL)=10.52			
Cd ⁺⁺	gl	KNO ₃	25°C	0.10M	U		K ₁ =4.5	B ₂ =8.0	1975HLc (21400)	947
Cd ⁺⁺	gl	KNO ₃	25°C	0.10M	C	T	K ₁ =4.26	B ₂ =8.08	1975IPb (21401)	948
Cd ⁺⁺	gl	NaClO ₄	30°C	0.20M	U	T	K ₁ =4.24	B ₂ =7.93	1975JBb (21402)	949
Cd ⁺⁺	gl	KNO ₃	25°C	1.00M	U	M T	K ₁ =3.80	B ₂ =7.10	1972BPa (21403)	950
							B ₃ =9.08			
							B(CdL(NH ₃))=6.86			
Cd ⁺⁺	ISE	NaNO ₃	25°C	2.00M	U	M			1972FDd (21404)	951
							K(CdA ₂ C ₁ +2L=CdL ₂ C ₁ +2A)=4.39			
							K(CdA ₂ C ₁ 2+2L=CdL ₂ C ₁ 2+2A)=4.82			
							K(CdA ₂ B+2L=CdL ₂ B+2A)=3.44			
							K(CdA ₂ B ₂ +2L=CdL ₂ B ₂ +2A)=3.64			
							K(CdA ₂ Br+2L=CdBrL ₂ +2A)=4.23, K(CdA ₂ Br ₂ +2L=CdBr ₂ L ₂ +2A)=4.70, H ₂ A=oxalic acid, B=thiourea. Data for I and SCN complexes also available			
Cd ⁺⁺	gl	none	25°C	0.0	U T	T	K ₁ =4.69	B ₂ =8.40	1972IJb (21405)	952
							K ₃ =2.28			
							10 C: K ₁ =4.73, K ₂ =3.76, K ₃ =2.53; 40 C: K ₁ =4.60, K ₂ =3.60, K ₃ =2.00			
Cd ⁺⁺	gl	KNO ₃	25°C	0.10M	U T	M			1972IVc (21406)	953
							K(CdA+L)=3.82			
							H ₂ A=methyliminodiethanoic acid. 15 C: K=3.92; 50 C: K=3.53; 70 C: K=3.36			
Cd ⁺⁺	ISE	NaNO ₃	25°C	2.00M	U	M T	K ₁ =5.08	B ₂ =8.88	1971FDa (21407)	954
							K(CdCl+L)=5.68			
							K(CdCl+2L)=9.48			
							K(CdCl ₂ +L)=5.98			
							K(CdCl ₂ +2L)=9.48			
							Data for many other ternary complexes with Br, I, SCN, S ₂ O ₃ and thiourea.			
Cd ⁺⁺	gl	KNO ₃	25°C	0.50M	U	M T	K ₁ =4.18	B ₂ =7.50	1969HLa (21408)	955
							B ₃ =9.76			
							B(CdLA)=7.31			
							A=salicylaldehyde			
Cd ⁺⁺	gl	KCl	25°C	0.10M	U T	T	K ₁ =3.95	B ₂ =7.17	1969MGg (21409)	956

5 C: K1=4.37, B2=7.86; 45 C: K1=3.86, B2=6.78

 Cd++ vlt KNO3 25°C 1.00M U M 1969VBa (21410) 957
 B(CdLA)=6.72
 B(CdLA2)=7.64

H2A=oxalic acid

 Cd++ oth KNO3 20°C 0.10M U K1=6.0 B2=9.90 1964JOa (21411) 958
 K3=2.6

Method: paper electrophoresis.

 Cd++ vlt KNO3 30°C 1.0M U M T B2=8.08 1964RSe (21412) 959
 B3=9.78
 B(CdL2(OH))=9.27
 B(CdL2(CO3))=8.89
 B(CdL2(NH3)4)=9.38

Ternary complexes with solochrome violet R

 Cd++ vlt oth/un 30°C 1.0M U B2=9.80 1962RSb (21413) 960

 Cd++ vlt oth/un 25°C 0.15M U T 1956LWa (21414) 961
 B3=9.94

 Cd++ gl oth/un 25°C ->0 U T K1=4.80 B2=8.83 1955EMa (21415) 962

 Cd++ gl KNO3 25°C 0.10M U K1=4.27 B2=8.73 1955MMa (21416) 963
 By polarography: K1=4.65, K2=3.36

 Cd++ gl oth/un 20°C 0.01M U K1=4.5 B2=8.10 1953ALa (21417) 964

 Cd++ gl oth/un 22°C 0.01M U B2=7.9 1952PEa (21418) 965
 Medium: CdSO4.

 Cd++ gl oth/un 25°C 0.01M U K1=4.47 B2=8.33 1949MMa (21419) 966

 Cd++ gl KNO3 20°C 0.50M U K1=3.88 B2=7.06 1945FLa (21420) 967
 K3=1.92

 C2H5NO2 HL Acetohydroxamic CAS 546-88-3 (2766)
 Acetohydroxamic acid, N-Hydroxyacetamide; CH3.CO.NHOH

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

 Cd++ vlt KNO3 30°C 0.50M C K1=3.76 B2= 7.20 1983BNa (21798) 968
 Method: polarography.

 C2H5NO3 HL CAS 2921-14-4 (1892)
 Aminoxyethanoic acid; H2N.O.CH2.COOH

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

Cd++ gl KNO3 25°C 0.50M U K1=2.98 1985WTa (21827) 969

C2H5NS HL Thioacetamide CAS 62-55-5 (3542)
Thioacetic acid amide; CH3.CS.NH2

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

Cd++ vlt KNO3 25°C 1.0M C M K1=0.81 B2= 0.20 1983DOb (21836) 970
B3=1.46
B(Cd(NCS)L)=2.05
B(Cd(NCS)2L)=2.15
B(Cd(NCS)L2)=1.17

Method: polarography.

Cd++ vlt KNO3 26°C 1.5M C K1=0.84 B2= 0.20 1981DDb (21837) 971
B3=1.44

Method: polarography.

C2H5N3O2 L Biuret CAS 108-19-0 (1126)
Carbomoylurea (Allophanic acid); H2N.CO.NH.CO.NH2

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

Cd++ gl NaClO4 25°C 0.01M U K1=10.15 1975SSb (21847) 972

C2H5N5 L (6902)
5-Aminomethyl-1H-tetrazole; NH2CH2.CHN4

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

Cd++ gl NaNO3 20°C 0.10M U K1=4.68 B2=7.70 1978LEb (21859) 973

C2H6N2O L Glycinamide CAS 598-41-4 (60)
2-Aminoethanoic acid amide; H2N.CH2.CO.NH2

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

Cd++ gl KNO3 25°C 0.20M C K1=2.65 B2=4.88 1990KUa (21947) 974

Cd++ vlt oth/un 25°C 0.15M U B2=5.2 1958LCa (21948) 975

C2H6N2O L Acethydrazide CAS 1068-57-1 (2566)
Ethanoic acid hydrazide, Acetylhydrazine; CH3.CO.NH.NH2

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

Cd++ vlt NaClO4 25°C 1.0M U K1=1.93 B2=3.64 1965KSb (21963) 976
B3=4.39

C2H6N2O2 HL CAS 5549-80-4 (833)
 2-Amino-N-hydroxyacetamide, Glycine hydroxamic acid; H2N.CH2.CO.NH.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	35°C	0.15M	U	I		K1=4.36 B2= 7.62	1995SKc (21986)	977

Also data for 42% v/v MeOH/H2O, 52% v/v EtOH/H2O, 59% v/v i-PrOH/H2O, 61% v/v dioxan/H2O.

Cd++	gl	NaClO4	25°C	0.10M	C			K1=4.81 B2=8.24 B(CdHL)=11.48 B(CdH-1L)=-3.37	1987PCa (21987)	978
------	----	--------	------	-------	---	--	--	---	-----------------	-----

 C2H6N2S L Methyl-Thiourea CAS 598-52-7 (1077)
 N-Methylthiourea; CH3.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	25°C	0.10M	U			K1=1.3 B2=2.2 B3=2.6 B4=3.2	1988CMA (21999)	979

Cd++	vlt	oth/un	25°C	0.10M	U			K1=1.63 B2=2.38 B3=2.76 B4=4.23	1986CRc (22000)	980
------	-----	--------	------	-------	---	--	--	---------------------------------------	-----------------	-----

Cd++	EMF	NaClO4	25°C	1.00M	U	T HM		K1=2.63 B2=3.31 B3=3.85 B4=5.23 B(CdLCl)=2.16 B(CdL2Cl)=4.33	1985Mca (22001)	981
------	-----	--------	------	-------	---	------	--	--	-----------------	-----

B(CdL3Cl)=6.25, B(CdL2Cl2)=6.76, all constants also at 20, 30 35, 40 C

Cd++	vlt	NaClO4	25°C	0.50M	U	M		B(CdLBr)=2.20 B(CdLBr2)=2.82 B(CdLBr3)=4.45 B(CdL2Br)=3.51	1985Mcb (22002)	982
------	-----	--------	------	-------	---	---	--	---	-----------------	-----

B(CdL2Br2) = 4.24, B(CdL3Br) = 4.39, measurements in LiClO4

Cd++	EMF	NaClO4	25°C	1.00M	U	M		B(CdLBr)=2.09 B(CdLBr2)=2.80 B(CdLBr3)=4.17 B(CdL2Br)=3.21	1985Mcb (22003)	983
------	-----	--------	------	-------	---	---	--	---	-----------------	-----

B(CdL2Br2) = 4.40, B(CdL3Br) = 4.29, measurements in LiClO4

Cd++	ISE	oth/un	25°C	0.10M	U			K1=1.42 B2=2.40 B3=2.87 B4=4.08	1975FFb (22004)	984
------	-----	--------	------	-------	---	--	--	---------------------------------------	-----------------	-----

Cd++ vlt KNO3 20°C 0.10M U I 1987AAa (22384) 992
B3=5.15
B(CdLOH)=7.44
B(CdL3OH)=8.11

Data also for 10-70%(v/v) EtOH/water water mixtures

Cd++ vlt KNO3 25°C 0.10M C I 1986ABb (22385) 993
K(Cd+2OH+2L)=8.99
K(Cd+OH+3L)=8.11

Method: polarography. Also data for 10-50%w/w MeOH/H2O.
In 30% MeOH/H2O, B4=5.85, K(Cd+OH+4L)=9.03.

Cd++ sp R4N.X 25°C 2.00M C I K1=2.65 B2=4.82 1983DBa (22386) 994
K3=1.40

Cd++ vlt oth/un 25°C 0.10M U I 1974MKa (22387) 995
B3=5.58

In 80% MeOH: B3=3.7

Cd++ vlt mixed 25°C 40% U M 1974MKb (22388) 996
B2=5.22
B3=5.92
B(CdL2(en))=9.63

Medium: 40% propanol

Cd++ vlt alc/w 25°C 20% U I 1973MBd (22389) 997
B3=6.10

Medium: EtOH, 0.1 LiNO3. Also B3=5.71(0% EtOH), 6.25(40%), 6.96(60%),
7.58(80%), 8.75(94%)

Cd++ gl KNO3 25°C 2.0M U K1=2.67 B2=4.61 1970URa (22390) 998
K3=1.67

Cd++ vlt alc/w 25°C 20% U I B2=5.45 1969MIc (22391) 999
B3=5.70

Medium: EtOH, 0.1 LiNO3. B2=4.78, B3=5.30(0% EtOH), B2=5.78, B3=6.08(40%),
B3=8.18(60%), B3=9.70(93.5%)

Cd++ vlt KNO3 25°C 1.0M U K1=2.70 B2=4.42 1968VBb (22392)1000
B3=5.71

Cd++ vlt alc/w 25°C 40% U I B2=4.54 1965MSe (22393)1001
B3=5.66
B4=7.40

Medium: 40% MeOH, 0.01 M NaClO4. B2=6.00(80%), 6.38(94%); B3=6.93(80%),
6.78(94%), 8.30(100%); B4=7.36(80%), 7.40(94%), 8.60(100%); B5=9.99(100%)

Cd++ vlt alc/w 25°C 50% U I B2=6.30 1962MSa (22394)1002
B3=6.42
B4=7.28

Medium: 50% EtOH, 0.1 M NaClO4. 0%: B2=4.78, B3=5.30, B4=6.25; 20%: 5.45, 5.70, 6.28; 94%: B3=9.70, B4=9.85, B5=10.56; 100%: B3=12.30, B4=13.95, B5=9.99

 Cd++ vlt KNO3 25°C 0.10M U K1=2.77 B2=4.09 1960MPa (22395)1003
 B3=5.46

 C2H7NO3S HL Taurine CAS 107-35-7 (2214)
 2-Aminoethane sulfonic acid; H2N.CH2.CH2.SO3H

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

Cd++ EMF NaClO4 25°C 1.0M C K1=2.01 B2= 3.78 1998BFb (22438)1004
 Method: Cd/Hg and glass electrodes

 C2H7NS HL CAS 60-23-1 (588)
 2-Aminoethanethiol; H2N.CH2.CH2.SH

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

Cd++ gl KCl 25°C 0.10M C K1=9.84 B2=17.22 1995LMa (22475)1005
 B(CdHL)=15.62
 B(CdH-1L)=2.77

 Cd++ gl KNO3 25°C 0.10M M M 1990SHd (22476)1006
 K(Cd(nta)+L)=7.12
 K(Cd(nta)+H+L)=15.46

 Cd++ gl KNO3 25°C 0.20M C B2=17.10 1984ABb (22477)1007
 K(Cd+2HL)=10.73
 K(Cd(HL)2+HL)=4.75
 K(Cd(HL)3+HL)=3.42
 K(Cd(HL)3=CdL(HL)2+H)=-8.03

 Cd++ gl KNO3 25°C 0.20M C B2=17.10 1984ABh (22478)1008
 K(Cd+2HL)=10.73
 K(Cd(HL)2+HL)=4.75
 K(Cd(HL)3+HL)=3.42
 K(Cd(HL)3)=-8.03

B(Cd3H2L4)=59.77, B(Cd3L4)=48.12.

 Cd++ sp NaClO4 20°C 1.00M U M K2=9.00 1972GSg (22479)1009
 K(2Cd+Ni3L4=2CdL2+3Ni)=-8.00

 Cd++ vlt oth/un 25°C 0.26M U B2=9.02 1961KPb (22480)1010
 Medium: 0.264 M phosphate buffer

 Cd++ gl KCl 25°C 0.10M U K1=9.38 1955FRa (22481)1011
 K(Cd+HL)=5.14

 Cd++ gl KNO3 25°C 0.15M U K1=10.97 B2=19.75 1955LMa (22482)1012

C2H7N3S L CAS 6610-29-3 (8227)
4-Methyl-3-thiosemicarbazide;

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

Cd++ cal NaNO3 25°C 1.0M C H 1979TIb (22507)1013
DH(K1)=-19.85 kJ mol-1, DS(K1)=-14.0 J K-1 mol-1; DH(K2)=-20.79,
DS(K2)=-24.9; DH(K3)=-15.55, DS(K3)=-28.9.

Cd++ cal NaNO3 25°C 1.0M C H 1979TRa (22508)1014
DH(K1)=-19.85 kJ mol-1, DS(K1)=-14.0 J K-1 mol-1, DH(K2)=-20.79,
DS(K2)=-24.9, DH(K3)=-15.55, DS(K3)=-28.9.

Cd++ EMF KNO3 25°C 1.0M C K1=2.75 B2= 5.09 1976TRb (22509)1015
B3=6.30

Method: Cd/Hg electrode.

C2H7O2PS2 HL CAS 5930-72-3 (4229)
O,O-Dimethyldithiophosphoric acid; (CH3O)2.PS.SH

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

Cd++ vlt mixed RT 50% C B2=4.70 1986HSd (22542)1016
B3=6.33
B4=7.01

Medium: 50% v/v DMF/H2O. Method: polarography.

C2H7O3P H2L CAS 71778-99-9 (1978)
Ethylphosphonic acid; CH3.CH2.PO3H2

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.94 1992SCa (22563)1017

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

Cd++ gl KNO3 20°C 0.10M C M 2003Lba (23055)1018
B(CdAL)=8.43
K(CdA+L)=6.00

A is cytidine.

Cd++ ISE non-aq 25°C 100% C H K1=5.88 B2=11.40 2001CGd (23056)1019
B3=15.81

Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.
By calorimetry: DH(K1)=-52.2, DH(B2)=-96.9, DH(B3)=-147.1 kJ mol-1.

Cd++ ISE R4N.X 25°C 0.10M C H K1=5.4 B2= 9.87 2001CGd (23057)1020
B3=12.2

Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4.

By calorimetry: DH(K1)=-25, DH(B2)=-55.6, DH(B3)=-82.4 kJ mol⁻¹.

Cd++ gl KNO3 20°C 0.10M U K1=3.51 B2= 9.66 1999LBa (23058)1021
B3=12.64

Cd++ cal alc/w 25°C 3% U IH 1998LSa (23059)1022
DH(K1)=-30.2 kJ mol⁻¹
DH(CdL+L)=-30.5
DH(CdL2+L)=-30.9

Medium: 0.5 mol parts EtOH in H2O, 0.5 M NaClO4

In 0.4 mol: DHvalues: -29.9; -30.7; -30.8; i n 100% H2O: -27.7; 26.4; -33.0

Cd++ gl NaClO4 25°C 0.20M M K1=5.45 1996VBa (23060)1023

Cd++ ISE alc/w 25°C 0.50M U I K1=6.43 B2=12.22 1994LSb (23061)1024
K3=3.33

Cd-electrode; Medium: 0.8 mol parts EtOH in H2O. Data also for other EtOH
content. In 100% H2O: K1 = 5.53, K2 = 4.78, K3 = 2.38

Cd++ gl KCl 25°C 0.20M C K1=5.04 B2= 9.03 1993KKb (23062)1025

Cd++ gl alc/w 37°C 70% C K1=5.96 B2=11.14 1993ZLb (23063)1026
Medium: 70% v/v EtOH/H2O, 0.10 M KNO3.

Cd++ cal oth/un 25°C dil C H K1=5.45 B2= 9.98 19890Fa (23064)1027
B3=11.74

Medium: NH4Cl/NH3 buffer, pH 10. DH(K1)=-28.54 kJ mol⁻¹,
DH(B2)=-66.15, DH(B3)=-85.77.

Cd++ gl KNO3 35°C 0.20M U M K1=5.34 B2=9.69 1989RVa (23065)1028
K(CdA+L)=4.53

A=bis(imidazol-2-yl)methane

Cd++ vlt KNO3 25°C 1.00M U M 1984MRa (23066)1029
B(CdLGly)=9.77
B(CdLGly2)=10.7
B(CdL2Gly)=11.2
B(CdLAsp)=9.87

B(CdLAsp2)=10.4, B(CdL2Asp)=11.1, B(CdLMet)=9.52, B(CdLMet2)=10.8,

B(CdL2Met)=11.7, B(CdL(IDA))=10.7, B(CdL(IDA)2)=11.5, B(CdL2(IDA))=11.1

Cd++ ISE NaClO4 25°C 3.0M C K1=6.21 B2=11.64 1983WBa (23067)1030
B3=14.38
K(Cd+HL)=1.70
K(Cd+L+HL)=7.88
K(Cd+2L+HL)=12.23

Cd++ gl NaNO3 30°C 0.50M M K1=5.87 B2= 9.98 1982MAd (23068)1031

Cd++ vlt KNO3 RT 1.0M C 1982RBa (23069)1032
B3=11.98

Method: polarography.

Cd++ vlt oth/un 25°C 2.0M C K1=5.63 B2=10.73 1980LEa (23070)1033
B3=12.59

Method: re-analysis of published polarographic data.

Medium not stated.

Cd++ vlt KNO3 25°C 2.0M C K1=9.623 B2=10.00 1980SBd (23071)1034
B3=12.00

Method: polarography.

Cd++ vlt KNO3 25°C 2.0M C T HM 1980SBd (23072)1035
B(CdAL)=10.929
B(CdA2L)=11.370
B(CdAL2)=12.230

Method: polarography. H2A=succinic acid. DH(CdAL)=-252 kJ mol⁻¹

DS(CdAL)=-662. DH(CdA2L)=-124, DS=-209. DH(CdAL2)=-168, DS=-345.

Cd++ gl KNO3 25°C 2.5M M K1=5.63 1979FLc (23073)1036

Cd++ vlt KNO3 25°C 0.10M C 1979KZa (23074)1037
B3=11.61

Method: stripping voltammetry.

Cd++ vlt NaClO4 25°C 1.20M U 1974BWb (23075)1038
K(Cd+HL)=1.40
K(Cd+2HL)=2.90
K(Cd+3HL)=3.90, K4=5.00
K(Cd+4HL)=5.00

K(Cd+5HL)=5.15, K(Cd+6HL)=5.43

Cd++ vlt oth/un 25°C 0.10M U 1974MKa (23076)1039
B3=11.52
B(CdLA2)=8.52
B(CdL2A)=10.38

In 80% v/v MeOH/H2O: B3=13.38. A=2-aminoethanol

Cd++ vlt mixed 25°C 40% U B2=11.42 1974MKb (23077)1040
B3=11.84
B(CdL2(ethanolamine))=10.98

Medium: 40% propanol

Cd++ gl NaClO4 30°C 0.15M U M K1=5.75 1974PBb (23078)1041
B(CdL(bpy))=5.21

Cd++ ISE KNO3 25°C 1.00M U K1=5.68 B2=10.25 1973CPd (23079)1042

B3=12.26

Cd++ vlt alc/w 25°C 60% U I M 1973MBd (23080)1043

B3=13.38
B(CdAL2)=11.59
B(CdA2L)=10.27

Medium: 0.1LiNO3, 0-94% ethanol. A=ethanolamine. 0%, B3=11.74, B(CdAL2)=9.73
B(CdA2L)=8.32. 94%, B3=15.30, B(AgAL2)=13.37, B(AgA2L)=12.04

Cd++ ISE NaNO3 25°C 2.00M U M 1972FDd (23081)1044

K(CdA2Cl+2L=CdL2Cl+2A)=5.32
K(CdA2Br+2L=CdL2Br+2A)=5.65
K(CdA2I+2L=CdL2I+2A)=6.12
K(CdA2SCN+2L=CdL2SCN+2A)=5.45

H2A=oxalic acid. Data also for other equilibria, also with Gly, S203 etc.
and other ternary species.

Cd++ ISE NaNO3 25°C 2.00M U M 1971FDa (23082)1045

K(CdL2+2Cl)=10.3
K(CdL2+2Br)=11.08
K(CdL2+2SCN)=10.7
K(CdL+A)=6.95

K(CdL+2A)=7.75. K(CdL2+A)=10.9, K(CdL2+2A)=11.34. A=thiourea.
Data also for mixed complexes with S203 etc.

Cd++ gl KNO3 25°C 0.10M U K2=4.59 1970DNa (23083)1046

Cd++ vlt oth/un ? ? U K1=5.84 B2=10.63 1970FAa (23084)1047
K3=2.09

Cd++ vlt alc/w 25°C 40% U I K1=9.72 B2=12.45 1969MIc (23085)1048

Medium: 0.1(LiNO3), 0-93.5% EtOH. 0%, K1=9.18, B2=11.46; 20%, K1=9.88,
B2=12.08; 60%, B2=12.85; 80%, B2=14.60; 93.5%, B2=15.82

Cd++ ISE non-aq 25°C 100% U K1=7.0 B2=13.0 1969PSd (23086)1049

B3=17.63

Medium: DMSO, 0.1 M KClO4

Cd++ gl NaNO3 25°C 0.50M U K1=5.69 B2=10.36 1968SPa (23087)1050

B3=12.80

Cd++ gl NaNO3 25°C 0.50M U M K1=5.69 B2=10.36 1967SPb (23088)1051

K3=2.44
B(CdL(en))=12.54

Ternary complexes with oxalic acid

Cd++ gl oth/un 25°C 0.10M U K1=5.5 1964PCa (23089)1052

Cd++ gl oth/un 10°C ->0 U T H K1=5.53 B2=10.27 1958BFa (23090)1053

20 C: K1=5.47, K2=4.62; 30 C: K1=5.34, K2=4.38; 40 C: K1=5.06, K2=4.25

DH(K1)=-25 kJ mol⁻¹, DS=13 J K⁻¹ mol⁻¹; DH(K2)=-31, DS=-21

Cd++ vlt oth/un 25°C 0.10M U K1=12.1 1956MOa (23091)1054

Cd++ oth oth/un 25°C 1.0M U 1956RAa (23092)1055
DS(Cd(NH₃)₄+2L=CdL₂+4NH₃)=73 J K⁻¹ mol⁻¹

Cd++ gl oth/un 25°C 0.15M U H 1955CHa (23093)1056
0-49 C. DH(K1)=-22.2 kJ mol⁻¹, DS=29.3 J K⁻¹ mol⁻¹; DH(K2)=-18.0, DS=25.1

Cd++ gl oth/un 0°C 0.15M U T K1=5.85 B2=10.57 1955CHb (23094)1057
49.1 C: K1=5.21, K2=4.20

Cd++ cal KCl 25°C 0.10M U H 1954DSa (23095)1058
DH(B2)=-55.6 kJ mol⁻¹, DS=-7.1 J K⁻¹ mol⁻¹; DH(B3)=-82.4, DS=-64.0

Cd++ gl KNO₃ 25°C 2.15M U H K1=5.84 B2=10.62 1953SPb (23096)1059
K3=2.07
DH(K1)=-29 kJ mol⁻¹, DH(B2)=-56

Cd++ vlt KNO₃ 25°C 0.10M U 1950DLa (23097)1060
B3=12.18

Cd++ gl KNO₃ 25°C 1.0M U K1=5.63 B2=10.22 1945BAa (23098)1061
K3=2.07

Cd++ gl KNO₃ 30°C 0.50M U K1=5.47 B2=10.02 1945CMa (23099)1062
K3=2.07

C₂H₈N₄S L CAS 35771-42-7 (4227)
S-Methylisothiocarbohydrazide; H₂N.N:C(S.CH₃).NH.NH₂

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

Cd++ gl KCl 25°C 0.50M U K1=3.55 B2=5.97 1972BMc (23251)1063

C₂H₈O₇P₂ H₄L HEDPA CAS 2809-21-4 (436)
1-Hydroxyethane-1,1-diphosphonic acid; CH₃.C(OH)(PO₃H₂)₂

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

Cd++ gl NaCl 37°C 0.15M C K1=7.10 B2=10.46 1999CZa (23338)1064
B(CdH₂L)=20.02
B(Cd₂L)=12.99
K(Cd+L+OH)=10.94

By differential pulse polarography: K1=7.26, B2=10.39, B(CdH₂L)=19.56,
B(CdH₄L)=25.04, B(Cd₂L)=12.67, K(Cd+L+OH)=10.93.

Cd++ gl KNO₃ 25°C 0.10M C K1=8.7 1997DBb (23339)1065
K(CdL+H)=7.5

K(CdHL+H)=4.5

Cd++ gl KNO3 25°C 0.10M U K1=8.7 1995DSa (23340)1066
B(CdHL)=16.5
B(CdH2L)=20.8
B(Cd(OH))=4
B(Cd(OH)2)=12

Cd++ vlt NaClO4 25°C 0.40M C 1989NOc (23341)1067
K(Cd+H3L)=3.5
K(Cd+2H3L)=5.4
K(Cd+H2L+H3L)=6.5
K(Cd+2H2L)=7.6

Method: polarography. Medium pH=4.6-6.4.

Cd++ gl KNO3 25°C 0.10M U K1=5.98 1980ZRc (23342)1068
K(Cd+HL)=4.33
K(Cd+H2L)=3.04

C2H9NO6P2 H4L IDPA CAS 32545-63-4 (1335)
Imino-N,N-bis(methylenephosphonic acid); HN(CH2PO3H2)2

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

Cd++ gl KNO3 25°C 0.1M C K1=9.3 1985MMa (23445)1069
B(CdHL)=15.3
B(CdH2L)=18.5

C3H3NO2 HL Cyanoacetic CAS 372-09-8 (38)
Cyanoethanoic acid; NC.CH2.COOH

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

Cd++ gl NaClO4 25°C 2.0M U K1=0.70 B2= 0.84 1981MFa (23509)1070

C3H4N2 L Pyrazole CAS 288-13-1 (367)
1,2-Diazole, pyrazole; cyclo(-NH.N:CH.CH:CH-)

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

Cd++ gl KNO3 25°C 0.50M U K1=1.11 B2=1.81 1977BBb (23563)1071

Cd++ vlt alc/w 25°C ?% U I K1=1.18 B2=1.48 1965CRb (23564)1072
B3=2.22

Medium: ? MeOH, 0.1 M KNO3. In 0.1 M KNO3: K1=1.11, B2=1.60, B3=1.83, B4=1.54

Cd++ vlt KNO3 45°C 0.10M U T H K1=1.28 B2=1.80 1963ARa (23565)1073
B3=1.83

K1=1.76(0 C), 1.50(25 C); B2=2.73(0 C), 2.18(25 C); B3=3.21(0 C), 2.32(25 C)
DH(K1)=-16.5 kJ mol⁻¹, DH(B2)=-33.9, DH(B3)=-50.7

C3H4N2 L Imidazole CAS 288-32-4 (90)
1,3-Diazole, imidazole; C3H4N2

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

Cd++ gl NaNO3 25°C 0.50M M K1=2.79 1998KSa (23797)1074

Cd++ gl KCl 25°C 0.10M C TIH R K1=2.67 B2=4.72 1997SJa (23798)1075
K3=1.44
K4=1.06

IUPAC evaluation. DH(K1)=-20.4 kJ mol⁻¹(I=0.5), DH(K2)=-20.3
I=0: K1=2.66, K2=2.04, K3=1.43, K4=1.05. I=3.0: 3.04, 2.40, 1.79, 1.20

Cd++ gl NaNO3 25°C 0.10M M M K1=2.74 1993JCa (23799)1076
K(CdA+L)=2.24

HA=N,N-bis(2-hydroxyethyl)glycine (bicine)

Cd++ vlt NaNO3 25°C 1.0M C M K1=2.65 B2= 4.30 1992KIa (23800)1077
B3=5.28
B4=7.10
B(Cd(phthalate)L)=3.95
B(Cd(phthalate)2L)=4.55

Method: polarography. Medium: pH 8.0. B(Cd(phthalate)L2)=6.10.
Data for many other ternary complexes with phthalate and adipate.

Cd++ gl KNO3 37°C 0.15M C M K1=2.70 B2=4.98 1990KDa (23801)1078
Ternary complexes with glycine, DL-alanine or DL-valine.

Cd++ vlt NaNO3 25°C 0.50M U K1=2.98 B2=5.06 1988EAb (23802)1079
B3=6.0
B4=6.79

Cd++ vlt NaNO3 25°C 1.0M U M K1=2.78 B2=4.85 1986JAa (23803)1080
B3=6.43
B4=7.15
B5=8.08
B6=7.18

Additional estimates for Cd-imidazole stability constants: K1=2.83, B2=4.81,
B3=6.32, B4=7.36

Cd++ vlt NaNO3 25°C 1.00M U K1=2.69 B2=4.301 1985KIa (23804)1081
B3=5.47
B4=7.16

By linear sweep voltammetry

Cd++ vlt NaNO3 25°C 1.00M U 1985KIa (23805)1082
B4=7.16

Cd++ vlt KNO3 25°C 0.10M C K1=2.80 B2= 4.90 1984CRa (23806)1083

B3=6.34

B4=7.56

Method: polarography

Cd++ gl NaNO3 37°C 0.15M U K1=2.737 1983ERa (23807)1084

Cd++ gl NaNO3 37°C 0.10M U M 1983ERa (23808)1085
K(Cd+Gly+L=Cd(Gly)LOH+H)=-0.34
B(CdL(Gly))=8.030

Cd++ gl NaClO4 25°C 3.00M C M 1983GSa (23809)1086
B(1,1,1)=4.33
B(1,1,3)=5.11
B(1,2,1)=6.26
B(1,2,2)=6.57

B(1,3,1)=7.95; K(Cd+L+2Cl=CdLCl2(s))=7.76; K(Cd+6L+2X=CdL6X2)=13.8; X=ClO4.
Media: mixtures of 3.0 M NaClO4 + 3.0 M NaCl. Cd(Hg) electrode

Cd++ sp non-aq 21°C 100% U M 1983LKa (23810)1087
K(CdA+L)=4.23

Medium: C2H4Cl2. A=tetraphenylporphin

Cd++ gl KNO3 25°C 0.50M U K1=3.11 B2=5.80 1983LWa (23811)1088
B3=8.10
B4=10.00
B5=11.60

Cd++ gl NaNO3 25°C 0.10M A M 1982SSa (23812)1089
K(Cd(ATP)+L)=2.03

Cd++ gl NaNO3 25°C 0.10M A M K1=2.71 1982SSa (23813)1090
K(Cd(ATP)+L)=2.03
K(CdA+L)=2.33

A=uridine-5'-triphosphate

Cd++ ISE NaClO4 25°C 3.0M C K1=3.093 B2=5.50 1981GSa (23814)1091
B3=7.29
B4=8.51
B(CdH-1L)=-6.59

Cd++ vlt NaNO3 25°C 2.00M U M K1=2.7 B2=4.0 1981SJa (23815)1092
B3=5.3
B4=7.0
B(CdLA)=4.0
B(CdLA2)=4.4

B(CdL2A)=5.9. H2A=malonic acid

Cd++ vlt NaNO3 25°C 2.00M U M K1=2.7 B2=4.0 1981SSa (23816)1093
B3=5.3
B4=7.0

B(CdLA)=4.5
B(CdLA2)=4.4
B(CdL2A2)=6.0; B(CdL3A)=6.0. H2A=Tartaric acid.

Cd++ vlt NaNO3 25°C 2.00M U M 1981SSa (23817)1094

K(CdLA+2L)=1.5
K(CdLA2+L)=1.6
K(CdLA2+2L)=1.6
K(CdL+A)=1.8

K(CdL2+2A)=2.0, K(CdA2+L)=0.7, K(CdA2+2L)=2.3, K(CdA2+3L)=2.3,
K(CdL3A+L)=1.0. H2A=Tartaric acid

Cd++ vlt NaNO3 25°C 2.0M C K1=2.69 B2= 4.00 1981SSi (23818)1095
B3=5.3
B4=7.0

Method: polarography.

Cd++ gl NaClO4 37°C 0.15M C K1=2.669 B2= 4.59 1979KBf (23819)1096
B3=6.008
B4=6.445
B(CdH-1L)=-5.090

Cd++ gl NaClO4 25°C 0.50M U H K1=2.76 B2=4.87 1978MHa (23820)1097
B3=6.32
B4=7.49

By calorimetry, DH1=-20.4 kJ mol⁻¹, DS1=15.4, DH(B2)=-40.7, DS(B2)=43

Cd++ vlt NaClO4 25°C 1.00M U T H K1=2.70 B2=5.10 1975JEa (23821)1098
B3=6.63
B4=7.60
B5=8.18
B6=8.95

Cd++ gl NaClO4 25°C 0.50M C TIH K1=2.718 B2=4.740 1974LVa (23822)1099

Cd++ oth R4N.X 30°C 2.0M C K1=2.73 B2= 4.80 1973Rac (23823)1100
B3=6.30

Method: recalculation of literature data. Medium: NH4NO3.

Cd++ ISE R4N.X 25°C 0.50M U K1=2.66 B2=4.73 1972JEa (23824)1101
B3=5.88
B4=7.11

Medium: NH4NO3

Cd++ ISE KNO3 25°C 0.10M U K1=2.71 B2=4.71 1971BLb (23825)1102
B3=6.06

Cd++ ISE KNO3 25°C 0.50M U K1=2.67 B2=4.87 1970BLa (23826)1103
B3=6.01
B4=7.14

 Cd++ vlt NaClO4 25°C 1.00M U K1=2.70 B2=5.10 1968ISa (23827)1104
 K3=1.60
 K4=0.95
 K5=0.6
 K6=0.8

Cd++ vlt KNO3 25°C 0.15M U B2=5.07 1954LWa (23828)1105
 K3=1.39
 K4=1.02

Cd++ vlt alc/w 0°C 19% U T H 1954LWa (23829)1106
 B4=8.15
 B4=7.49(25 C), 7.20(35 C). DH(B4)=-45 kJ mol⁻¹, DS=-9 J K⁻¹ mol⁻¹
 In 31.3% EtOH, 25 C: B4=7.52

Cd++ gl oth/un 15°C 0.15M U T K1=2.88 B2=5.06 1953TWa (23830)1107
 K3=1.53
 K4=1.17

25 C: K1=2.80, K2=2.10, K3=1.55, K4=1.13. 35 C: 2.63, 2.03, 1.55, 0.96

C3H4N2O2 HL Hydantoin CAS 461-72-3 (389)
 2,4-Imidazolidinedione;

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

Cd++ vlt NaNO3 25°C 0.50M U K1=3.25 B2=6.36 1988EAb (23946)1108

Cd++ gl KNO3 25°C 0.50M U H K1=3.33 B2= 5.34 1979BEc (23947)1109
 B3=6.45

By calorimetry: DH(K1)=-11.1 kJ mol⁻¹, DS(K1)=26.4 J K⁻¹ mol⁻¹;
 DH(B2)=-20.5, DS(B2)=33; DH(B3)=-31.0.

C3H4N2S L CAS 95-50-4 (821)
 2-Aminothiazole; C3H2NS.NH2

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

Cd++ gl KNO3 25°C 0.50M U K1=1.34 B2=2.28 1982GKa (23959)1110
 B3=2.80

Cd++ gl KNO3 25°C 0.10M U T H K1=1.56 1978BBd (23960)1111
 Data for 30, 35 and 40 C. DH(K1)=-8.0 kJ mol⁻¹, DS(K1)=3 J K⁻¹ mol⁻¹.

C3H4N2S HL Imidazolethiol CAS 872-35-5 (1823)
 2-Mercaptoimidazole; C3H3N2.SH

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

Cd++ gl NaClO4 25°C 0.10M U K1=6.53 B2=12.14 1977STc (23968)1112

C3H4O3 HL Pyruvic acid CAS 127-17-3 (1152)
2-Oxopropanoic acid; CH3.CO.COOH

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

Cd++ vlt NaClO4 30°C 1.0M C M K1=0.778 B2= 1.18 1988GMc (24038)1113
B3=1.43
B(Cd(ox)L)=3.15
B(Cd(ox)L2)=3.154
B(Cd(ox)2L)=3.94

Method: polarography. B(Cd(cit)L2)=3.787, B(Cd(cit)2L)=5.61;
B(Cd(sal)L)=2.454, B(Cd(sal)2L)=3.51.

Cd++ gl NaClO4 30°C 1.0M U M K1=2.47 1988GMd (24039)1114
K(Cd(ox)+L)=3.55
K(Cd(cit)+L)=3.15

Cd++ gl NaClO4 25°C 2.00M U K1=0.69 1980MKb (24040)1115

Cd++ gl NaClO4 25°C 3.00M C K1=0.98 1978FGa (24041)1116

C3H4O4 H2L Malonic acid CAS 141-82-2 (79)
Propanedioic acid; CH2(COOH)2

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

Cd++ gl diox/w 25°C 40% C M K1=3.18 B2= 5.87 2001ZGa (24328)1117
B(Cd(phe)L)=7.32

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.
phe: phenylalanine.

Cd++ EMF oth/un 25°C 0.0 C TIH K1=3.45 1998RPa (24329)1118
Method: Pt/H2 electrode. Medium: 0.09-1.0 M CF3SO3Na. DH(K1)=7 kJ mol-1
DS(K1)=91 J K-1 mol-1. For I=0.10 M, K1=2.51, DH=80. Data for 0-100 C.

Cd++ vlt oth/un 25°C 0.1M U K1=2.1 1995FFa (24330)1119

Cd++ vlt NaNO3 25°C 1.00M U M K1=1.85 B2=2.76 1989KIa (24331)1120
B3=3.65
B(CdLA)=6.72
B(CdL2A)=7.51
B(CdLA2)=8.13

A=1,3-Diaminopropane

Cd++ vlt NaClO4 25°C 1.0M C M K1=2.0 B2= 3.20 1988RRb (24332)1121
B3=3.7

Method: polarography. Medium pH 7.5. B(Cd(ox)L)=4.11,
B(Cd(ox)L2)=4.70, B(Cd(ox)2L)=4.94.

Cd++ vlt NaNO3 25°C 2.0M C K1=1.7 B2= 2.30 1987KSg (24333)1122
B3=3.48

Method: polarography.

Cd++ vlt KCl 42°C 1.0M C M K1=2.70 B2= 3.80 1987NKa (24334)1123
B(Cd(gly)L)=6.48
B(Cd(gly)2L)=8.54
B(Cd(gly)L2)=8.30

Method: polarography. Medium pH 9.20.

Cd++ vlt KNO3 30°C 1.50M U K1=1.70 B2=2.75 1985KCa (24335)1124
B3=3.48

Cd++ vlt NaNO3 25°C 2.0M C M K1=1.38 B2= 2.47 1983KKa (24336)1125
B3=3.23
K(Cd+2HA+L)=3.46

Method: polarography. HA is 1,2,4-triazole.

Cd++ vlt NaNO3 25°C 2.0M C K1=1.38 B2= 2.47 1983KSb (24337)1126
B3=3.23
K(Cd+L+2HA)=3.46

Method: polarography. Medium pH 6.0. HA is 1,2,4-triazole.

Cd++ vlt KNO3 30°C 1.00M C M K1=1.70 B2=2.75 1982CGc (24338)1127
B3=3.48

Cd++ vlt KNO3 30°C 1.50M C K1=1.70 B2=2.75 1982SCa (24339)1128
B3=3.48

Cd++ vlt NaClO4 30°C 2.0M C T H K1=2.00 B2= 2.78 1981KNa (24340)1129
B3=3.43

Method: polarography. Also data for 40 and 50C. At 30C, DH(K1)=4.39 kJmol⁻¹
DS(K1)=54.0 J K⁻¹ mol⁻¹; DH(B2)=40.2, DS(B2)=177; DH(B3)=33.5, DS=177.

Cd++ vlt NaNO3 25°C 2.00M U K1=1.0 B2=2.6 1981SJa (24341)1130
B3=3.6

Cd++ vlt NaClO4 30°C 2.0M U I K1=2.00 B2=2.78 1979KNb (24342)1131
B3=3.43

Cd++ vlt NaNO3 25°C 3.0M U K1=1.95 B2=2.78 1978JBa (24343)1132
B3=3.15

Cd++ vlt KNO3 26°C 2.10M U M K1=1.63 B2=2.36 1972KGb (24344)1133
B3=3.40
B(CdLA)=3.85
B(CdLA2)=4.96
B(CdL2A)=3.56

H2A=oxalic acid

Cd++ gl NaClO4 25°C 0.10M U K1=2.64 19700Va (24345)1134

Cd++ gl NaClO4 25°C 0.10M U K1=2.64 19680Va (24346)1135
K(Cd+HL)=1.49

Cd++ gl NaClO4 20°C 0.10M U K1=2.51 1963CAa (24347)1136
K(Cd+HL)=1.05

Cd++ gl oth/un 25°C 0.10M U K1=2.3 1960YYa (24348)1137

Cd++ EMF oth/un 25°C 0.04M U K1=3.25 1949SDa (24349)1138

Cd++ ISE oth/un 20°C 0.10M U K1=2.7 1934FRa (24350)1139

Cd++ oth oth/un 25°C ->0 U K1=3.29 1932MDa (24351)1140

Cd++ con oth/un 25°C 0.01M U K1=2.89 1929RFa (24352)1141

C3H4O5 H2L Tartronic acid CAS 80-69-3 (839)
Hydroxypropanedioic acid; HO.CH(COOH)2

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

Cd++ vlt oth/un 25°C 2.00M U K1=1.90 B2=3.30 1972T0a (24611)1142
B3=3.79

Cd++ gl NaClO4 20°C 0.10M U K1=2.85 1963CAa (24612)1143
K(Cd+HL)=1.61

C3H5NO2S2 H2L CAS 29596-83-6 (3558)
N-(Dithiocarboxy)aminoethanoic acid; HS.CS.NH.CH2.COOH

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

Cd++ oth oth/un ? ? U K1=5.4 B2=9.3 1973RBc (24657)1144
B3=13.7

C3H5N3S L CAS 108-33-8 (1428)
2-Amino-5-methyl-1,3,4-thiadiazole; C2N2S(NH2)(CH3)

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

Cd++ gl KNO3 25°C 0.50M U K1=1.18 1982GLa (24682)1145

C3H5N3S L CAS 17467-35-5 (1425)
5-Amino-3-methyl-1,2,4-thiadiazole; C2N2S(NH2)(CH3)

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

Cd++ gl KNO3 25°C 0.50M U K1=0.82 1982GLa (24688)1146

C3H6N2OS L CAS 591-08-2 (1423)
N-Acetylthiourea;CH3.CO.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	vlt	R4N.X	25°C	2.00M	U	I M	K1=1.5 B2=2.6 B3=3.5 B4=4.6 B(CdL+Br)=3.2 B(CdL+2Br)=4.4	1983Mca	(24766)1147

Medium: Et4NClO4; also data for 0.1, 0.2, 0.4 and 0.6 mole fraction of EtOH and of MeOH; other log K in water: [CdL3+Br] 4.9, [CdL2+2Br] 5.3

Cd++	vlt	alc/w	20°C	64%	U		B2=4.80 B3=5.1 B4=6.2	1982Mca	(24767)1148
------	-----	-------	------	-----	---	--	-----------------------------	---------	-------------

Medium: 64% w/w MeOH/H2O, 0.2 M LiClO4

Cd++	vlt	NaClO4	20°C	0.20M	U		B2=4.65	1982Mca	(24768)1149
------	-----	--------	------	-------	---	--	---------	---------	-------------

Cd++	sp	NaClO4	20°C	0.20M	U		K1=2.13	1982Mca	(24769)1150
------	----	--------	------	-------	---	--	---------	---------	-------------

Cd++	ISE	mixed	25°C	82%	U		K1=4.80 B2=5.25 B3=5.55	1979MTc	(24770)1151
------	-----	-------	------	-----	---	--	-------------------------------	---------	-------------

Medium: 82% DMSO/H2O

C3H6N2O2 L D-Cycloserine CAS 68-41-7 (907)
D-4-Amino-1,2-oxazolidine-3-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.50M	U		K1=1.54 B2=2.86 B3=3.95 B4=4.83	1983Gwa	(24791)1152

C3H6N2S L CAS 96-45-7 (386)
2-Imidazolidinethione; C3H6N2(:S)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	NaNO3	25°C	1.0M	U		K1=1.31 B2=2.14 B3=2.7 B4=3.4	1963CRa	(24833)1153

C3H6O L Acetone CAS 67-64-1 (1912)
Propan-2-one, acetone; CH3.CO.CH3

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

Cd++ vlt mixed 18°C 90% U I K1=1.08 B2=1.70 1962MGb (24855)1154
 B3=2.11
 B4=2.78
 B5=2.9
 B6=2.9

Medium: 90% acetone, 0.05 M NaClO4. In 90% acetone, 10% MeOH, 0.05 M NaClO4,
 K1=0.95, B2=0.74, B3=-0.78, B4=0.93

C3H6OS2 HL Xanthic acid CAS 151-01-9 (590)
 (Ethoxy)dithiomethanoic acid; CH3.CH2O.CSSH

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

Cd++ vlt KNO3 25°C 0.40M C B3=13.87 1984HSb (24869)1155

Method: polarography.

 Cd++ dis KNO3 25°C 1.00M U B2=7.9 1983SAa (24870)1156
 B3=10.3

 Cd++ vlt KNO3 25°C 1.0M U I B4=11.05 1967KHc (24871)1157

In 50% DMF, 2 M KNO3: B3=14.40

C3H6O2 HL Propionic acid CAS 79-09-4 (35)
 Propanoic acid; CH3.CH2.COOH

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

Cd++ vlt NaClO4 25°C 2M C K1=1.15 B2=2.07 1996GGa (24963)1158
 B3=2.07

Method: Differential Pulse Polarography

 Cd++ oth NaClO4 25°C 2.0M U K1=1.34 1990FTa (24964)1159
 Methods: averaged results from potentiometric, polarographic and
 spectrophotometric measurements.

 Cd++ vlt NaClO4 25°C 2.0M C K1=1.32 B2= 1.99 1984TMe (24965)1160
 B3=2.33

Method: polarography.

 Cd++ vlt NaClO4 25°C 2.00M U M K1=1.29 B2=2.03 1980TMa (24966)1161
 B3=2.31
 B(CdLA)=2.42
 B(CdL2A)=2.99

HA=ethanoic acid

 Cd++ ISE NaClO4 25°C 8.00M U I K1=2.39 B2=4.30 1976FHa (24967)1162
 B3=5.69

Cd++ EMF NaClO4 25°C 2.00M U K1=1.23 B2=1.80 1970FMa (24968)1163
B3=2.47

Cd++ vlt NaClO4 25°C 2.00M U K1=1.30 B2=2.04 1968FPa (24969)1164
B3=2.22
B4=1.98

Cd++ ISE oth/un 35°C 0.0 U K1=2.89 B2=4.17 1966AAa (24970)1165

C3H6O2S HL CAS 2444-37-3 (1074)
(Methylthio)ethanoic acid; CH3.S.CH2.COOH

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

Cd++ vlt KNO3 25°C 0.35M C K1=1.09 1985CEa (25090)1166
Method: differential pulse polarography, using anodically generated Hg++
as indicator ion.

C3H6O2S H2L Thiolactic acid CAS 79-42-5 (366)
2-Mercaptopropanoic acid; CH3.CH(SH).COOH

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

Cd++ gl oth/un 25°C 3.0M C M K1=5.66 B2= 8.51 1983M0d (25124)1167
B(CdHL)=11.22
B(CdAL)=7.93

Medium: 3.0 M LiClO4. H2A is 2-mercaptoethanoic acid.

Cd++ gl oth/un 30°C 0.50M U K1=3.7 1982RAa (25125)1168

Cd++ ISE NaClO4 25°C 3.0M C B2=15.05 1977AAa (25126)1169
B(Cd2L3)=28.5
B(Cd3L4)=40.77

C3H6O2S H2L CAS 107-96-0 (437)
3-Mercaptopropanoic acid; HS.CH2.CH2.COOH

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

Cd++ ISE NaNO3 25°C 0.10M C K1=8.8 B2=13.60 2000VGc (25199)1170
Method: Cd ion selective electrode and Ag/Ag2S/S-- electrode.

Cd++ gl oth/un 30°C 0.50M U K1=3.2 1982RAa (25200)1171

C3H6O2S HL CAS 2365-48-2 (8896)
Mercaptoethanoic acid methyl ester;

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

Cd++ gl KCl 25°C 0.10M C B2=12.5 2002CDc (25238)1172

C3H6O3 HL CAS 81598-26-7 (2521)
3-Hydroxypropanoic acid; HO.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	2.00M	U		K1=1.28 B2=2.12 B3=2.40	1976KGa	(25255)1173

Cd++	vlt	NaClO4	25°C	2.00M	U		K1=1.15 B2=2.20 B4=2.26	1973NPa	(25256)1174
------	-----	--------	------	-------	---	--	-------------------------------	---------	-------------

C3H6O3 HL L-Lactic acid CAS 79-33-4 (82)
L-2-Hydroxypropanoic acid; CH3.CH(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sol	oth/un	20°C	2.10M	U	M		1978KUa	(25370)1175
							B(CdL(oxalate))=5.69 B(CdL2(oxalate))=6.36		

Cd++	gl	NaClO4	25°C	2.00M	U		K1=1.29 B2=2.00 B3=2.64	1976KGa	(25371)1176
------	----	--------	------	-------	---	--	-------------------------------	---------	-------------

Cd++	gl	NaClO4	25°C	1.00M	C		K1=1.24 B2=1.88	1974BJa	(25372)1177
------	----	--------	------	-------	---	--	--------------------	---------	-------------

Cd++	vlt	NaClO4	25°C	2.00M	U		K1=1.32 B2=2.04 B3=2.46 B4=1.84 B5=1.60 B6=1.52	1968FPa	(25373)1178
------	-----	--------	------	-------	---	--	--	---------	-------------

Cd++	EMF	NaClO4	25°C	1.0M	U		K1=1.21 B2=2.08 K3=0.2	1967TGa	(25374)1179
------	-----	--------	------	------	---	--	------------------------------	---------	-------------

Method: quinhydrone electrode.

Cd++	con	oth/un	25°C	?	U		K1=1.695	1954EMa	(25375)1180
------	-----	--------	------	---	---	--	----------	---------	-------------

C3H6O4 HL Glyceric acid CAS 473-81-4 (2520)
2,3-Dihydroxypropanoic acid; HO.CH2.CH(OH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	2.00M	U		K1=1.25 B2=2.17 B3=2.71	1979KFa	(25626)1181

Cd++	vlt	NaClO4	?	2.00M	U		K1=1.60 B2=2.12 K3=0.42 K4=-0.22	1968TFa	(25627)1182
------	-----	--------	---	-------	---	--	---	---------	-------------

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

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

Cd++	gl	alc/w	37°C	40%	C	M		K1=5.09 B2= 9.42 B(CdLA)=9.46 K(CdL+A)=4.37 K(CdA+L)=4.32 B(CdLC)=9.36	1998AAa (26062)	1183
HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15 H2A:5-[o-hydroxyphenylazo] barbituric acid. K(CdL+C)=4.27, K(CdC+L)=4.51.										
Cd++	gl	alc/w	37°C	40%	C			K1=5.09 B2= 9.42	1997AAb (26063)	1184
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.										
Cd++	gl	NaClO4	25°C	0.20M	M			K1=5.03	1996VBa (26064)	1185
Cd++	gl	NaClO4	25°C	0.20M	M			K1=5.038 B2= 8.56	1994VBb (26065)	1186
Cd++	gl	NaClO4	25°C	0.20M	M			K1=5.038 B2= 8.56	1994VBc (26066)	1187
Cd++	gl	KNO3	25°C	0.10M	C T HM			K1=4.07 B2= 7.42 K(CdL+bpy)=3.49 B(CdL(bpy))=7.70 K(CdL+phen)=3.47 B(CdL(phen))=9.21	1993GWa (26067)	1188
Data for 15-45 C. DH(K1)=-22.81 kJ mol ⁻¹ , DS(K1)=1.44 J K ⁻¹ mol ⁻¹ , DH(B2)=-47.60, DS(B2)=-17.58, DH(CdL(bpy))=-62.13, DH(CdL(phen))=-64.73.										
Cd++	gl	NaClO4	25°C	0.20M	U T M			K1=4.27 B2= 7.73 K(CdA+L)=4.15	1993PPa (26068)	1189
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.										
Cd++	gl	KCl	25°C	0.10M	C I T			K1=3.88 B2=7.38	1993SKa (26069)	1190
IUPAC evaluation. I=0.5 to 1.0: K1=3.88, B2=7.38										
Cd++	gl	alc/w	37°C	70%	U	M		K1=4.71 B2=9.27	1993ZLa (26070)	1191
Medium: 70% v/v EtOH/H2O, 0.1 M KNO3. B(CdAL)=12.25, A=vitamin D3										
Cd++	gl	NaClO4	25°C	0.20M	U	M		K1=5.03 B2=8.52 B(CdL(Trp))=8.79 B(CdL(Tyr))=8.75	1992VBa (26071)	1192
Cd++	vlt	NaNO3	25°C	1M	U	M		K1=4.71 B2=7.32 B3eff = 9.65	1991KMd (26072)	1193
At pH=8. H3A=citric acid. B(CdLA) = 6.16, B(CdLA2) = 6.95, B(CdL2A)=8.55										
Cd++	vlt	NaNO3	25°C	1.0M	C	M		K1=4.71 B2= 7.32 B3=9.65	1991KMF (26073)	1194

B(CdAL)=6.16
B(CdA2L)=6.95
B(CdAL2)=8.55

Method: differential pulse polarography. H3A=citric acid.

Cd++ vlt NaClO4 25°C 1.0M C K1=4.06 B2= 7.43 1991RAa (26074)1195
B3=9.91
K(Cd+HL)=0.86
K(Cd+2HL)=1.15
K(Cd+3HL)=2.43

Method: polarography. K(Cd+HL+L)=5.23, K(Cd+HL+2L)=8.03,
K(Cd+2HL+L)=5.54

Cd++ gl KNO3 25°C 0.10M C K1=4.00 B2=7.40 1990BBa (26075)1196
Using CV: B2=7.20, B3=8.96. Using diff. pulse polarog.: B2=7.1, B3=9.36
Using glass electrode, B2=7.40

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (26076)1197
K(Cd(nta)+L)=2.67

Cd++ vlt KNO3 25°C 1.0M U M K1=4.23 B2= 7.46 1989KNb (26077)1198
K3=1.97
B(CdAL)=6.14
B(CdA2L)=8.38
B(CdAL2)=8.77

Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.23 B2= 7.46 1989NKc (26078)1199
B3=9.43
B(CdAL)=6.27
B(CdAL2)=8.96
K(CdAL+A)=2.29

Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=8.56.

Cd++ gl KNO3 35°C 0.20M U M K1=4.10 B2=7.50 1989RVa (26079)1200
K(CdA+L)=3.50

A=bis(imidazol-2-yl)methane

Cd++ gl KNO3 25°C 0.20M U M K1=4.85 1988BSc (26080)1201
K(Cd(bpy)+L)=4.64

Cd++ vlt KNO3 42°C 1.0M C K1=4.17 B2= 6.60 1988KHa (26081)1202
B3=9.95

Method: polarography. Medium pH 4.80.

Cd++ gl NaClO4 27°C 0.20M U M K1=4.27 B2= 7.73 1988PPc (26082)1203
K(CdA+L)=4.15

A is 2,2'-dipyridylamine.

Cd++ gl KNO3 25°C 0.20M C K1=3.96 B2= 7.37 1986SVa (26083)1204

B3=9.98

Cd++ gl NaCl 37°C 0.15M U M 1986XHa (26084)1205
B(CdL(His))=8.17
B(CdH-1L(His))=-2.35

Cd++ gl NaCl 37°C 0.15M U M K1=3.446 B2=6.317 1985CFb (26085)1206
B(CdH-1L)=-6.63
B(CdL(His))=8.165; B(CdH-1L(His))=-2.35

Cd++ vlt KNO3 30°C 0.10M C K1=4.20 B2= 7.30 1985KCb (26086)1207
B3=9.80

Method: polarography. Medium pH 8.9.

Cd++ gl NaClO4 20°C 0.70M U K1=3.875 B2= 7.28 1985SCc (26087)1208
By differential pulse polarography, K1=3.75, B2=7.20

Cd++ vlt KNO3 30°C 1.0M C M K1=4.24 B2= 7.54 1984CGc (26088)1209
B3=9.54
B(CdAL)=9.26
B(CdAL2)=11.62
B(CdA2L)=12.33

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl oth/un 30°C 0.20M U M K1=4.27 1984JOb (26089)1210
K(Cd(bpy)+L)=4.05

Medium: not stated.

Cd++ gl NaClO4 20°C 0.70M C K1=3.902 B2= 7.27 1984SCb (26090)1211
By DPP: K1=3.75, B2=7.20.

Cd++ vlt KNO3 30°C 1.00M U M 1983ISc (26091)1212
B(CdL(en))=6.90
B(CdL2(en))=8.59
B(CdL(en)2)=10.50

Cd++ vlt KNO3 30°C 1.00M U M 1983ISc (26092)1213
B(CdLA)=7.07
B(CdL2A)=9.49
B(CdLA2)=11.56

A=1,2-diaminopropane

Cd++ vlt KNO3 30°C 1.00M C M T K1=4.24 B2=7.54 1982CGc (26093)1214
B3=9.54

Cd++ gl oth/un 25°C 3.00M U M T K1=3.69 B2=6.93 1982MOb (26094)1215
B(CdAL)=7.13

Medium: LiClO4. HA=2-aminobutanoic acid

Cd++ vlt KNO3 30°C 0.30M C M K1=4.40 B2= 7.40 1981APd (26095)1216

B3=9.50
B(Cd(ox)L)=6.20
B(Cd(ox)2L)=7.30
B(Cd(ox)L2)=8.60

Method: polarography. Medium pH 8.0.

Cd++ vlt KNO3 30°C 0.50M C K1=4.11 B2= 6.70 1981MNb (26096)1217
B3=9.74

Method: polarography.

Cd++ gl KNO3 30°C 0.10M M M K1=4.16 B2= 7.46 1978MSi (26097)1218
K(Cd(his)+L)=3.67
B(Cd(his)L)=9.32
K(Cd(his)+OH+L)=7.35

Cd++ EMF NaClO4 25°C 1.00M C K1=4.05 B2=7.33 1976BMf (26098)1219
B(CdHL)=10.43
B3=9.4

Cd++ gl NaClO4 30°C 0.20M U T K1=4.27 B2=7.73 1975JBb (26099)1220

Cd++ gl KNO3 25°C 1.00M U M T K1=4.13 B2=7.60 1972BPa (26100)1221
B3=9.73
B(CdL(Gly))=7.66
B(CdL(Gly)2)=10.15
B(CdL(NH3))=6.63

Cd++ oth NaClO4 25°C 0.50M U T K1=3.96 B2=7.57 1967RPd (26101)1222
Method: optical rotation

Cd++ gl KNO3 20°C 0.37M U T K1=4.02 B2=7.40 1966SWa (26102)1223

Cd++ oth KNO3 20°C 0.10M U K1=5.9 B2=9.40 1964J0a (26103)1224
K3=2.4

Method: paper electrophoresis

Cd++ vlt KNO3 30°C 0.10M U T K1=4.49 B2=8.00 1964RSb (26104)1225
B3=9.49

Cd++ vlt KNO3 30°C 1.0M U M B2=7.56 1964RSe (26105)1226
B3=9.15
B(CdL2(OH))=8.42
B(CdL2(NH3)4)=8.91

Cd++ vlt oth/un 30°C 1.0M U 1962RSb (26106)1227
B3=9.15

Cd++ vlt KNO3 25°C 2.0M U K1=5.13 B2=7.82 1962SCb (26107)1228
B3=9.16

Cd++ gl oth/un 25°C 0.01M U K1=4.2 1954PEa (26108)1229

Cd++ gl oth/un 21°C 0.01M U K1=7.6 1952PEa (26109)1230
Medium: 0.005-0.01 M CdSO4

C3H7NO2 HL B-Alanine CAS 107-95-9 (575)
3-Aminopropanoic acid; H2N.CH2.CH2.COOH

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

Cd++ vlt NaNO3 25°C 1M U M K1=3.60 B2=5.80 1991KMd (26427)1231
B3eff=7.05

At pH=8; H3A=citric acid. B(CdLA)=5.37, B(CdLA2)=6.15, B(CdL2A)=6.91

Cd++ vlt NaNO3 25°C 1.0M C M K1=3.60 B2= 5.80 1991KMF (26428)1232
B3=7.05

B(CdAL)=5.37
B(CdA2L)=6.16
B(CdAL2)=6.81

Method: differential pulse polarography. H3A=citric acid.

Cd++ gl NaClO4 25°C 0.50M C T K1=3.416 B2=6.055 1986GGa (26429)1233
B(CdH-1L)=-6.69
B(CdH-1L2)=-3.30

Cd++ vlt KNO3 30°C 0.30M C M K1=3.70 B2= 5.75 1981APd (26430)1234
B3=6.85

B(Cd(ox)L)=5.40
B(Cd(ox)2L)=6.78
B(Cd(ox)L2)=6.88

Method: polarography. Medium pH 8.0.

Cd++ vlt NaClO4 25°C 0.10M C M 1981DDc (26431)1235

K(Cd+HL)=1.06
K(Cd+2HL)=0.48
K(Cd+3HL)=1.73
K(Cd+A+2HL)=2.62

Method: polarography. K(Cd+2A+HL)=2.84. A is thiourea.

Cd++ gl NaNO3 20°C 0.10M U K1=3.71 B2=5.59 1978LEb (26432)1236

Cd++ EMF NaClO4 25°C 1.00M C K1=3.30 B2=5.60 1976BSb (26433)1237
B(CdHL)=11.21

B(CdHL2)=14.30
B(CdH2L2)=22.15
B3=7.65

Cd++ gl NaClO4 30°C 0.20M U T K1=3.81 1975JBb (26434)1238

Cd++ vlt NaClO4 25°C 0.30M U M 1969KTb (26435)1239

K(CdA+L)=2.42

A=ethylenediaminetetrapropoate ion

Cd++ gl KCl 25°C 0.10M U T K1=2.88 B2=5.53 1969KTb (26436)1240
K1(5 C)=3.17 B2(5 C)=6.64; K1(45 C)=3.18, B2(45 C)=6.33

Cd++ vlt KNO3 30°C 1.0M U M T B2=5.70 1964RSe (26437)1241
B3=6.78
B(CdL3(OH))=7.20
B(CdL2(CO3))=6.60
B(CdL2(NH3)4)=7.98

Cd++ vlt oth/un 30°C 1.0M U 1962RSb (26438)1242
B3=6.80

Cd++ vlt KNO3 25°C 2.0M U T K1=3.71 B2=5.59 1962SCb (26439)1243
B3=6.68

C3H7NO2 HL DL-Alanine CAS 302-72-7 (189)
DL-2-Aminopropanoic acid; H2N.CH(CH3).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	37°C	0.15M	C	M		K1=4.05 B2=7.25 B3=9.77 B(CdH-1L)=-4.89 B(CdH-2L)=-14.74	1990KDa (26534)	1244

Ternary complex with imidazole (A): B(CdAL)=6.72

Cd++ vlt KNO3 35°C 0.50M C M K1=4.18 B2= 6.72 1990KKd (26535)1245
B3=9.06
B(Cd(bpy)L)=7.18
B(Cd(bpy)2L)=10.05
B(Cd(bpy)L2)=10.14

Method: polarography. Medium pH 7.0-10.5

Cd++ gl NaClO4 25°C 3.00M U K1=3.99 B2=7.28 1981MAa (26536)1246

Cd++ gl KNO3 25°C 0.10M U K1=4.0 B2=7.4 1975HLc (26537)1247

C3H7NO2 HL Sarcosine CAS 107-97-1 (87)
N-Methyl-2-aminoethanoic acid; CH3.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U	M		K(CdA+L)=3.40	1972IVc (26594)	1248

H2A=methyliminodiethanoic acid

Cd++ gl oth/un 25°C 0.01M U K1=3.86 B2=7.06 1959DLb (26595)1249

Cd++ gl oth/un 20°C 0.01M U B2=7.5 1952PEa (26596)1250
Medium: CdSO4

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

Cd++ EMF NaCl 25°C 1.00M C I 1997BFa (26736)1251

B(CdHL)=15.2
B(CdH2L2)=30.47

Method: Cd/Hg electrode. In 3.0 M NaCl: B(CdHL)=15.40, B(CdH2L2)=30.62,
B(CdH3L3)=44.65, B(CdH2L3)=36.80. By voltammetry: B2=14.40, B3=16.0.

Cd++ vlt NaCl04 25°C 3.00M U K1=12.5 1990KUa (26737)1252

Cd++ gl NaNO3 25°C 1.0M U K1=12.82 B2=27.72 1988BAa (26738)1253

B3=27.52
B(Cd2L3)=40.41

Additional method: Cd ion selective electrode.

Cd++ gl NaCl 37°C 0.15M U T K1=10.3 B2=16.92 1985CFb (26739)1254

B(CdH-1L)=2.42
B(CdHL2)=24.97
B(CdH2L2)=30.93
B3=19.78

B(CdHL3)= 29.21

Cd++ gl oth/un 30°C 0.50M U K1=2.4 1982RAa (26740)1255

Cd++ gl NaCl04 25°C 0.50M U M K1=6.45 1975RMa (26741)1256

B(CdL(citrate))=10.82
B(CdL(NTA))=17.53
B(CdL(tartrate))=8.36
K(Cd+L+HPO4)=11.45

Medium: 0.50 H2SO4. Probably all Keff values

Cd++ gl NaCl04 25°C 0.50M U K1=8.65 B2=16.20 1975ZKa (26742)1257

Cd++ ISE NaCl04 25°C 3.00M C K1=12.88 B2=19.63 1974WWa (26743)1258

Cd++ vlt oth/un 25°C 0.20M U B2=9.89 1966SPa (26744)1259

Medium: phosphate buffer

C3H7NO3 HL Serine CAS 56-45-1 (49)
2-Amino-3-hydroxypropanoic acid; H2N.CH(CH2.OH)COOH

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

Cd++ vlt KNO3 25°C 0.10M C M K1=4.07 B2= 7.13 1998JKb (27072)1260
B3=9.69
B(CdAL)=4.41
B(CdA2L)=7.10
B(CdAL2)=9.945

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Cd++ gl KNO3 35°C 0.10M C M K1=3.79 B2= 6.97 1998ZWa (27073)1261
B(CdH-1L2)=-2.37
B(CdH-2L2)=-11.39

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime

Cd++ gl KNO3 25°C 0.10M M M K1=4.13 1996AEa (27074)1262

Data for ternary complexes with dipicolinic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.07 B2= 7.13 1993DKb (27075)1263
B3=9.69
B(CdAL)=6.12
B(CdA2L)=8.22
B(CdAL2)=8.59

Method: polarography. Medium pH 8.5. HA is formic acid.
K(H+L)=9.20.

Cd++ gl NaClO4 25°C 0.20M U T M K1=3.95 B2= 7.25 1993PPa (27076)1264
K(CdA+L)=3.76

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl KNO3 25°C 0.10M U I K1=3.95 B2=7.08 1990RAb (27077)1265
Data also for 10% w/w EtOH/H2O (K1=4.06; B2=7.75) and 25% (4.22; 8.73)

Cd++ gl KNO3 25°C 0.10M M 1990SHd (27078)1266
K(Cd(nta)+L)=3.22

Cd++ gl KNO3 35°C 0.20M U M K1=3.78 B2=6.80 1989RVa (27079)1267
K(CdA+L)=3.21

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 25°C 3.00M M K1=4.33 B2=8.19 1988BFa (27080)1268
B3=10.6 (also Cd/Hg electrode)
B(CdHL)=10.45
B(CdH2L2)=20.56
B(CdHL3)=18.2

Cd++ gl NaClO4 27°C 0.20M U M K1=3.95 B2= 7.25 1988PPc (27081)1269
K(CdA+L)=3.76

A is 2,2'-dipyridylamine.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.00 B2= 7.10 1986KCb (27082)1270
B3=9.30

B(CuAL)=4.99
B(CuA2L)=5.20
B(CuAL2)=7.52

Method: polarography. Medium pH 8.5. H2A is ascorbic acid.

Cd++ gl KNO3 25°C 0.20M C K1=3.77 B2= 7.03 1986SVa (27083)1271
B3=9.33

Cd++ vlt KNO3 30°C 0.10M C K1=4.00 B2= 7.10 1985KCb (27084)1272
B3=9.30

Method: polarography. Medium pH 8.9.

Cd++ gl NaClO4 20°C 0.70M U K1=3.729 B2= 7.02 1985SCc (27085)1273
B(CdH-1L)=-5.83

By differential pulse polarography, K1=3.45, B2=6.80.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.10 B2= 7.10 1984CGc (27086)1274
B3=9.08
B(CdAL)=9.02
B(CdAL2)=11.20
B(CdA2L)=12.18

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl oth/un 30°C 0.20M U M K1=3.95 1984JOb (27087)1275
K(Cd(bpy)+L)=3.76

Medium: not stated.

Cd++ gl NaClO4 20°C 0.70M C K1=3.731 B2= 7.09 1984SCb (27088)1276
By DPP: K1=3.45, B2=6.80.

Cd++ vlt KNO3 30°C 1.00M C M K1=4.10 B2=7.10 1982CGc (27089)1277
B3=9.08

Cd++ gl KNO3 25°C 0.50M U K1=4.00 B2=7.15 1979SGc (27090)1278
B3=9.22

Cd++ vlt KNO3 25°C 0.50M C I K1=4.00 B2= 7.15 1979SGe (27091)1279
B3=9.22

Method: polarography. Ligand is DL-serine. In 15%v/v DMF/H2O: K1=4.08,
B2=7.62, B3=9.71. In 15% v/v DMSO/H2O, K1=4.30, B2=7.90, B3=9.98.

Cd++ gl KNO3 25°C 0.10M U K1=3.8 B2=7.2 1975HLc (27092)1280

Cd++ ISE NaClO4 25°C 3.00M C K1=4.15 B2=7.86 1974WVa (27093)1281
B3=10.22

Cd++ gl oth/un 20°C .005M U B2=7.4 1953PEa (27094)1282
Medium: 0.005 M CdSO4

C3H7NO3

HL

CAS 2786-22-3 (1893)

2-Aminoxypropanoic acid;CH3.CH(O.NH2).COOH

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

Cd++ gl KNO3 25°C 0.50M U K1=2.42 1985WTa (27210)1283

C3H7NO3 HL iso-Serine CAS 632-12-2 (351)
DL-3-Amino-2-hydroxypropanoic acid; H2N.CH2.CH(OH).COOH

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

Cd++ gl KNO3 25°C 0.10M C M 1988ACa (27228)1284
B(CdHL)=11.14
B(Cd2H-2L2)=-6.62
B(CdH-2L2)=-11.75

Also B(CdZnH-2L2)=-4.33; B(CdCoH-2L2)=-4.97.

C3H7NS2 HL CAS 128-04-1 (2125)
Dimethyldithiocarbamic acid; (CH3)2N.CSSH

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

Cd++ EMF non-aq 25°C 100% U B2=12.4 1987USa (27272)1285
Medium: DMF, 0.1 M LiClO4

Cd++ vlt mixed RT 50% C 1986HSd (27273)1286
B3=19.12
Medium: 50% v/v DMF/H2O. Method: polarography.

C3H7N5 L (6903)
5-(2-Aminoethyl)-1H-tetrazole; NH2.CH2.CH2.CHN4

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

Cd++ gl NaNO3 20°C 0.10M U K1=5.11 B2=9.20 1978LEb (27290)1287

C3H7O5P H3L CAS 5926-41-4 (3549)
2-Phosphonopropanoic acid; CH3.CH(PO3H2).COOH

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

Cd++ gl R4N.X 25°C 0.25M U K1=2.96 1957WBa (27298)1288
Medium: 0.1-0.4 M (C3H7)4NI

C3H7O6P H2L (6830)
3-Hydroxy-2-oxopropylphosphoric acid; CH2(OH).CO.CH2.OPO3H2

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

Cd++ gl NaNO3 25°C 0.10M U K1=2.36 1992LCb (27319)1289

C3H7O7P H3L CAS 28474-06-8 (3552)
D-2,3-Dihydroxypropanoic acid 2-phosphate (D-2-phosphoglyceric acid)

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

Cd++ gl R4N.X 25°C 0.25M U K1=3.40 1957WBa (27328)1290
Medium: 0.1-0.4 M (C3H7)4NI

C3H8NO5P H3L Glyphosate CAS 1071-83-6 (1617)
N-(Phosphonomethyl)glycine; H2O3P.CH2.NH.CH2.COOH

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

Cd++ gl KNO3 30°C 0.10M U T HM K1=12.15 B2=21.63 1997RPa (27394)1291
K(CdL+gly)=3.22
K(CdL+ala)=3.44
K(CdL+A)=7.20
K(Cd(phen)+L)=11.42

Data for 20-50 C. DH(K1)=-37 kJ mol⁻¹, DS(K1)=101 J K⁻¹ mol⁻¹, DH(K2)=-26,
DS(K2)=94. H2A is catechol. K(Cd(bpy)+L)=11.32, K(Cd(ida)+L)=9.74.

Cd++ gl KNO3 25°C 0.1M C K1=7.29 B2=10.91 1985MMa (27395)1292
B(CdHL)=12.64
K(CdL(OH)+H)=-3.46

C3H8N2O L Sarcosine amide CAS 6250-76-6 (2982)
Sarcosine amide; CH3.NH.CH2.CO.NH2

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

Cd++ gl oth/un 25°C 0.01M U K1=2.19 B2=3.88 1959DLb (27489)1293

C3H8N2O2 HL Ala-hydroxamic CAS 16707-85-0 (1582)
2-Amino-N-hydroxypropanamide, Alanine hydroxamic acid; CH3.CH(NH2).CO.NH.OH

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

Cd++ gl KCl 25°C 0.20M C I K1=4.25 B2=7.11 1989FSa (27573)1294
B(CdHL)=11.40
B(CdH-1L)=-3.93

C3H8N2O2 HL (6666)
beta-Alaninehydroxamic acid; NH2.CH2.CH2.CO.NHOH

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

Cd++ gl KCl 25°C 0.20M C 1993KKb (27604)1295
B(CdHL)=13.68
B(Cd2L2)=14.31

B(CdH-1L)=-3.09

Cd++ gl KCl 25°C 0.20M C 1992KsA (27605)1296

B(CdHL)=13.46
B(Cd2L2)=14.05
B(CdH-1L)=-3.70

C3H8N2S L DiMe-Thiourea CAS 61805-96-7 (1078)
1,3-Dimethylthiourea; CH3.NH.CS.NH.CH3

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

Cd++ vlt oth/un 25°C 0.10M U K1=1.70 B2=1.70 1986CRc (27624)1297
B3=2.70
B4=3.97

C3H8N2S L Ethyl-thiourea CAS 625-53-6 (1079)
N-Ethylthiourea; C2H5.NH.CS.NH2

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

Cd++ vlt NaClO4 25°C 0.10M U K1=1.8 B2=2.5 1988Cma (27628)1298
B3=3.5
B4=4.4

Cd++ vlt oth/un 25°C 0.10M U K1=1.40 B2=2.0 1986CRc (27629)1299
B3=3.00
B4=4.49

Cd++ ISE oth/un 25°C 0.10M U K1=1.46 B2=2.18 1975FFb (27630)1300
B3=3.48
B4=4.42

In 40% EtOH/H2O: K1=1.64; B2=3.07; B3=4.36; B4=5.14; B5=4.90; B6=4.71

In 80%EtOH/H2O: K1=1.95; B2=3.56; B3=5.15; B4=6.28; B5=7.35; B6=7.18

C3H8O2S HL 1-Thioglycerol CAS 96-27-5 (1848)
3-Mercapto-1,2-propanediol HS.CH2.CH(OH).CH2.OH

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

Cd++ gl KNO3 25°C 0.50M U 1974BPa (27707)1301
K0=-1.665
K=14.769

logBn=logK0+nlogK 'core + links'; Cd(Cd3L5)n complexes. Variuos hypotheses

C3H8O3S3 H3L (1324)
1,3-Dimercaptopropanesulfonic acid; HS.CH2.CH2.CH(SH).SO3H

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

Cd++ EMF KNO3 20°C 0.10M U K1=16.22 B2=25.28 1968RYa (27762)1302

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

Cd++ gl KNO3 25°C 0.20M U B2=28.27 1991ACb (27776)1303
B(Cd3L3)=59.9
B(Cd3L4)=71.9
B(Cd5L6)=114.3
B(Cd7L8)=156.7

Cd++ gl NaCl 37°C 0.15M U B2=28.19 1984JSb (27777)1304
B(Cd2L2)=37.72
B(CdHL2)=35.19
B(Cd3HL3)=61.91

K1=17.32 and B2=28.22 in the presence of DTPA as a competing ligand

Cd++ EMF KNO3 20°C 0.10M U K1=16.69 B2=26.87 1968PRc (27778)1305

C3H9N L n-Propylamine CAS 107-10-8 (2356)
1-Aminopropane; H2N.CH2.CH2.CH3

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

Cd++ ISE R4N.X 25°C 2.00M U K1=2.62 B2=4.64 1969PMc (27825)1306
K3=1.39

Medium: NH4NO3

C3H9N L iso-Propylamine CAS 75-31-0 (157)
2-Propylamine; CH3.CH(CH3).NH2

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

Cd++ ISE R4N.X 25°C 2.00M U K1=2.55 B2=4.57 1970PMa (27842)1307
K3=1.50
K4=0.83

Medium: NH4NO3

C3H9NO L CAS 2799-16-8 (905)
1-Aminopropan-2-ol; H2N.CH2.CH(OH).CH3

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

Cd++ vlt KNO3 25°C 0.10M U K1=3.54 B2=4.58 1981AAa (27875)1308
B3=5.75
B4=5.89

C3H9NO L CAS 109-83-1 (899)

2-(Methylamino)ethanol; HO.CH2.CH2.NH.CH3

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

Cd++ vlt KNO3 25°C 0.10M U B2=4.67 1980AAa (27887)1309
B3=5.08
B4=4.79

C3H9NO L CAS 156-87-6 (906)
3-Aminopropan-1-ol; HO.CH2.CH2.CH2.NH2

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

Cd++ vlt KNO3 25°C 0.10M U K1=5.14 1981AAa (27916)1310

C3H9NS L CAS 18542-42-2 (1215)
1-Amino-3-thiabutane; H2N.CH2.CH2.S.CH3

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

Cd++ gl KNO3 30°C 1.0M U K1=3.22 B2=5.52 1956BFc (27943)1311

C3H9NS HL CAS 462-47-5 (1566)
3-Aminopropane-1-thiol; H2N.CH2.CH2.CH2.SH

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

Cd++ gl alc/w 25°C 10% C 1989GVa (27951)1312

B(4,8,8)=156.86
B(5,12,12)=233.27
B(3,8,8)=152.65
B(1,3,3)=54.15

In 3.0 M NaClO4 B(p,q,r): pCd+qL+rH=CdpLqHr. Also B(3,6,4)=102.9.
B(3,6,3)=94.99. B(3,6,1)=73.9. B(3,6,0)=63.76. B(1,2,0)=18.97 and others.

C3H9O4P H2L (6694)
(Phosphonylmethoxy)ethane; H2O3P.CH2.O.CH2.CH3

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

Cd++ gl NaNO3 25°C 0.10M M K1=3.01 1992SCa (28017)1313

C3H9O6P H2L CAS 57-03-4 (2984)
2,3-Dihydroxypropylphosphoric acid, Glycerol 1-phosphate; HO.CH2.CH(OH).CH2.OPO3H2

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

Cd++ gl NaNO3 25°C 0.10M U K1=2.43 1992LCb (28042)1314

C3H10NO3P H2L CAS 35869-68-2 (1989)

Dimethylaminomethylphosphonic acid; (CH3)2N.CH2.PO3H2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=5.17 K(CdL+H)=7.60	1993SKc (28097)	1315

 C3H10N2 L CAS 78-90-0 (2905)
 1,2-Diaminopropane; CH3.CH(NH2)CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	27°C	?	U			K1=7.90 B2=9.60 B3=11.34	1979GBc (28158)	1316

Cd++	vlt	NaClO4	25°C	3.6M	C			K(Cd+HL)=1.7 K(Cd+2HL)=3.0 K(Cd+3HL)=4.2 K(Cd+4HL)=5.15	1977WBa (28159)	1317
------	-----	--------	------	------	---	--	--	--	-----------------	------

Method: polarography. K(Cd+5HL)=5.65, K(Cd+6HL)=5.93.

Cd++	gl	NaClO4	30°C	0.15M	U	M		K1=6.20 B(CdL(bpy))=5.69	1974PBb (28160)	1318
------	----	--------	------	-------	---	---	--	-----------------------------	-----------------	------

Cd++	vlt	KNO3	25°C	>0.1	U			B3=12.27	1950DLa (28161)	1319
------	-----	------	------	------	---	--	--	----------	-----------------	------

Cd++	gl	KNO3	30°C	0.50M	U			K1=5.42 B2=9.97 K3=2.15	1945CMA (28162)	1320
------	----	------	------	-------	---	--	--	----------------------------	-----------------	------

 C3H10N2 L Propanediamine CAS 109-76-2 (123)
 1,3-Diaminopropane; H2N.CH2.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	C	M		B(CdAHL)=16.93 K(CdA+HL)=3.92	2003Lba (28279)	1321

A is cytidine.

Cd++	gl	KNO3	20°C	0.10M	U			K1=3.98 B2= 8.05	1999Lba (28280)	1322
------	----	------	------	-------	---	--	--	------------------	-----------------	------

Cd++	vlt	NaNO3	25°C	1.0M	C			K1=5.60 B2= 7.54 B3=8.55	1990KMe (28281)	1323
------	-----	-------	------	------	---	--	--	-----------------------------	-----------------	------

Method: DP and DC polarography. Medium pH 8.0

Cd++	vlt	NaNO3	25°C	1.00M	U	M		K1=5.48 B2=7.59 B3=8.31	1989KIa (28282)	1324
------	-----	-------	------	-------	---	---	--	----------------------------	-----------------	------

Cd++ vlt NaNO3 25°C 1.00M U K1=4.95 B2=7.58 1987GAa (28283)1325
B3=8.30

Cd++ vlt NaNO3 25°C 1.0M U M K1=5.60 B2=7.54 1985KAa (28284)1326
B3=8.55

B(CdLA)=6.78; B(CdLA2)=7.54; B(CdL2A)=8.20. H2A=oxalic acid

Cd++ vlt NaNO3 25°C 1.00M U K1=5.477 B2=7.59 1985KIa (28285)1327
B3=8.31

By linear sweep voltammetry

Cd++ vlt NaNO3 25°C 1.00M U 1985KIa (28286)1328
B3=8.31

Cd++ vlt NaNO3 25°C 1.0M C K1=5.60 B2= 7.54 1984KZa (28287)1329
B3=8.34

Method: DP polarography.

Cd++ vlt KNO3 20°C 2.0M C T K1=8.00 B2= 9.00 1980SGg (28288)1330
B3=12.48

Method: polarography. At 30C, K1=7.90, B2=8.60, B3=11.34.

Cd++ vlt KNO3 27°C ? U M K1=5.38 B2=7.47 1979GBc (28289)1331
B3=8.95
K(CdL+A)=4.58
K(CdLA+A)=2.10
K(CdL2+A)=3.88

A=1,2-diaminopropane

Cd++ vlt mixed 30°C 25% U I K1=8.7 B2=10.6 1977MJa (28290)1332
B3=6.91

Medium: 25% DMF/H2O. In 50%: K1=9,7, B2=11.0, B3=5.31; in 75%: K1=10.3,
B2=12.0, B3=4.51, B4=10.45

Cd++ vlt NaClO4 25°C 3.6M C 1977WBa (28291)1333

K(Cd+HL)=1.83
K(Cd+2HL)=3.25
K(Cd+3HL)=4.5
K(Cd+4HL)=5.5

Method: polarography. K(Cd+5HL)=5.7, K(Cd+6HL)=5.99.

Cd++ vlt NaClO4 30°C 0.10M U B2=9.0 1975MJc (28292)1334
B3=11.54

Cd++ ISE KNO3 25°C 0.10M U K1=4.50 B2=7.20 1971BLb (28293)1335

Cd++ gl oth/un 25°C 0.15M U H 1955CHa (28294)1336
At 25 C: DH(K1)=-22.2 kJ mol⁻¹, DS=12.5 J K⁻¹ mol⁻¹; DH(K2)=-18.4, DS=-4.2

Cd++ gl oth/un 0°C 0.15M U T K1=4.97 B2=8.31 1955CHb (28295)1337

49.1 C: K1=4.33, K2=2.81

Cd++ vlt KNO3 25°C 0.10M U B2=7.42 1954IRa (28296)1338
B3=8.03

C3H10N2 L CAS 109-81-9 (1308)
N-Methyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH2

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

Cd++ vlt KNO3 20°C 1.0M U K1=5.6 1984KMc (28357)1339
By cyclic voltammetry on Hg.

Cd++ gl KNO3 25°C 1.00M C H K1=5.41 B2=9.70 1982ABc (28358)1340
K3=1.5

By calorimetry: DH1=-19.0 kJ mol⁻¹, DS1=39.8, DH(B2)=-44.3, DS(B2)=36.8

Cd++ ISE KNO3 25°C 1.00M U K1=5.47 B2=9.56 1973CPd (28359)1341
B3=11.40
K(Cd+HL)=1.49
K(Cd+OH+L)=9.71

C3H11NO6P2 H4L (6735)
N-Methylimino-N,N-bis(methylenephosphonic acid); CH3.N(CH2P03H2)2

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

Cd++ gl KNO3 25°C 0.10M C K1=10.18 1993SKc (28437)1342
K(CdL+H)=6.71
K(CdHL+H)=4.43
*K(CdL)=-12.0

Cd++ gl NaClO4 25°C 0.10M U K1=10.15 B2=16.75 1988LDa (28438)1343
B(CdHL)=14.51
B(CdH2L2)=31.53

C3H11N2O3P H2L CAS 23575-68-0 (4244)
Ethylenediamine-N-methylenephosphonic acid; H2N.CH2.CH2.NH.CH2.P03H2

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

Cd++ gl oth/un 25°C 0.10M U K1=8.2 B2=13.80 1972AUa (28463)1344
K(Cd+HL)=3.5

C3H11N3 L CAS 21292-99-6 (2975)
Propane-1,2,3-triamine; H2N.CH2.CH(NH2).CH2.NH2

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

Cd++ gl KNO3 25°C 0.10M C K1=5.99 B2=10.39 1998ZMa (28483)1345

B(CdHL)=13.60
B(CdH-1L)=-4.39

Cd++ gl KCl 20°C 0.10M U K1=6.45 1950PSa (28484)1346
K(Cd+HL)=4.75

C3H12N09P3 H6L NTPA CAS 6419-19-8 (2920)
Nitrilotris(methylenephosphonic acid); N(CH2PO3H2)3

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

Cd++ gl KCl 25°C 0.10M C I R 2001PRa (28539)1347
K(Cd+HL)=6.4
K(CdL+H)=7.15
K(CdHL+H)=5.72
K(CdH2L+H)=4.1

IUPAC Recommended values.

Cd++ gl KNO3 25°C 0.10M C K1=12.2 1997DBb (28540)1348
K(CdL+H)=7.16
K(CdH2L+H)=4.13
K(CdHL+H)=5.68

Cd++ gl KNO3 25°C 0.10M C K1=12.0 1989SAa (28541)1349
K(CdL+H)=7.14
K(CdHL+H)=5.76
K(CdH2L+H)=4.0

Cd++ vlt NaClO4 25°C 0.40M C K(Cd+H3L)=3.6 1988NKb (28542)1350
K(Cd+H2L)=4.6
K(Cd+HL)=6.7

Method: polarography. Medium pH=4.5-5.0.

Cd++ gl alc/w 25°C 10% U K1=12.05 1987SHa (28543)1351
K(CdL+H)=6.99
K(CdHL+H)=5.78
K(CdH2L+H)=4.47

In 10% ethanol/H2O; I=0.1 M NaClO4.

Cd++ gl KCl 25°C 0.1M M K1=11.55 1975MNa (28544)1352
K(Cd+HL)=6.52
K(Cd+H2L)=4.88
K(Cu+H3L)=3.78

C4H3N2O2Br H2L 5-Bromouracil CAS 51-20-7 (8651)
5-Bromo-2,4-dihydroxypyrimidine;

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

Cd++ gl NaNO3 25°C 0.10M C M 2000SSd (28681)1353

K(Cd+HL)=5.64
K(Cd+L+OH)=13.18
K(Cd+L+2OH)=16.29
K(CdLOH+OH)=3.12

Also data for ternary complexes.

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

Cd++ gl NaNO3 25°C 0.10M U M K1=5.80 1996SGa (28691)1354
K(CdA+L)=6.15

A is adenine.

C4H3N2O2I H2L 5-Iodouracil CAS 696-07-1 (8652)
5-Iodo-2,4-dihydroxypyrimidine;

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

Cd++ gl NaNO3 25°C 0.10M C M 2000SSd (28699)1355
K(Cd+HL)=5.44
K(Cd+L+2OH)=16.24
K(CdLOH+OH)=3.17

Also data for ternary complexes.

C4H4N2 L Pyridazine CAS 289-80-5 (1484)
1,2-Diazine, Pyridazine; cyclo(-N:N.CH:CH.CH:CH-)

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

Cd++ gl KNO3 25°C 0.50M U K1=0.70 B2=1.02 1988KLa (28770)1356

C4H4N2OS HL 2-Thiouracil CAS 141-90-2 (4278)
4-Hydroxy-2-mercaptopyrimidine; HO.C4H2N2.SH

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

Cd++ gl oth/un 25°C 0.01M U T K1=4.02 B2=7.51 1970Gwa (28804)1357
K1(35 C)=4.08, K1(45 C)=3.99, K2(35 C)=3.77, K2(45 C)=3.45

C4H4N2S HL CAS 1450-85-7 (1521)
2-Mercapto-1,3-diazine, 2-Mercaptopyrimidine; C4H3N2.SH

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

Cd++ gl KNO3 30°C 0.50M U K1=8.3 B2=19.88 1989WIa (28933)1358

C4H4N6O L 8-Azaguanine CAS 134-58-7 (114)

2-Amino-6-hydroxy-8-azapurine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	50%	U	M		K1=7.64 K(Cd(bpy)+L)=6.59 K(Cd(NTA)+L)=3.67	1978Mcb (28961)	1359

C4H4O4 H2L Maleic acid CAS 110-16-7 (111)
cis-Butenedioic acid; HOOC.CH:CH.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	30°C	1.50M	U			K1=1.70 B2=2.65 B3=3.32	1985KCa (29038)	1360

Cd++	vlt	KNO3	30°C	1.50M	C			K1=1.90 B2=2.80 B3=3.40	1982SCa (29039)	1361
------	-----	------	------	-------	---	--	--	----------------------------	-----------------	------

Cd++	vlt	KNO3	25°C	2.50M	U	M		K1=1.90 B2=2.30 B3=3.32 B(CdL(SCN))=2.59 B(CdL2(SCN))=2.75	1979JBb (29040)	1362
------	-----	------	------	-------	---	---	--	---	-----------------	------

Cd++	vlt	NaNO3	25°C	2.10M	U			K1=1.90 B2=2.30 B3=3.32	1977JBa (29041)	1363
------	-----	-------	------	-------	---	--	--	----------------------------	-----------------	------

Cd++	vlt	KNO3	27°C	2.10M	U	M		K1=1.74 B2=2.66 B(CdLA2)=3.47 B(CdL1A)=3.74	1973KGa (29042)	1364
------	-----	------	------	-------	---	---	--	---	-----------------	------

H2A=oxalic acid

Cd++	vlt	NaClO4	25°C	0.20M	U	I		K1=2.2 B2=3.6 B3=3.8	1967NMa (29043)	1365
------	-----	--------	------	-------	---	---	--	-------------------------	-----------------	------

At I=0.4: K1=2.0, B2=3.2

Cd++	gl	oth/un	25°C	0.10M	U			K1=2.4	1960YYa (29044)	1366
------	----	--------	------	-------	---	--	--	--------	-----------------	------

C4H5NO2 HL Succinimide CAS 123-56-8 (390)
Succinic acid imide; (CH2.CO)2NH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U	H		K1=3.31 B2= 5.50 B3=6.92	1979BEc (29309)	1367

By calorimetry: DH(K1)=-8.24 kJ mol⁻¹, DS(K1)=35.6 J K⁻¹ mol⁻¹;
DH(B2)=-16.4, DS(B2)=50.2; DH(B3)=-23.0, DS(B3)=55.2.

C4H5N2Cl L CAS 872-49-1 (7589)
5-Chloro-1-methylimidazole;

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.50M M          K1=2.19      1998Ksa (29332)1368
*****
C4H5N3    L                               CAS 109-12-6 (1480)
2-Amino-1,3-diazine; C4H3N2.NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.50M U          K1=0.69  B2=1.27  1988KLa (29343)1369
*****
C4H5N3O   HL   Cytosine             CAS 71-30-7 (1096)
2-Oxy-6-aminopyrimidine;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaClO4 25°C 0.10M M          K(Cd+HL)=1.12
                                K(Cd(atp)+HL)=1.28
*****
C4H6N2    L   4-Me-Imidazole     CAS 822-36-6 (353)
4-Methyl-1,3-diazole; C3H3N2.CH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.50M U          K1=2.65  B2=4.65  1981LKa (29524)1371
                                B3=6.30
                                B4=6.70
-----

```

```

-----
Cd++      vlt KNO3  25°C 0.15M U          B3=6.49  1954LWa (29525)1372
*****
C4H6N2    L   N-Me-Imidazole     CAS 616-47-7 (354)
N-Methyl-1,3-diazole; C3H3N2.CH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.50M M          K1=2.76      1998Ksa (29559)1373
-----
Cd++      gl  KNO3   25°C 0.15M U          B2=5.07  1954LWa (29560)1374
                                K3=1.39
                                K4=1.02
*****
C4H6N2S   L                               CAS 27464-82-0 (1457)
2,5-Dimethyl-1,3,4-thiadiazole; C2N2S(CH3)2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.50M U          K1=0.62      1985GLa (29642)1375
-----

```

C4H6N2S L CAS 7063-91-4 (1422)
2-Amino-4-methylthiazole; C3HNS(CH3).NH2

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

Cd++ gl KNO3 25°C 0.50M U K1=0.85 1982GKa (29648)1376

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

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

Cd++ EMF KNO3 25°C 0.50M C B2=2.23 1977LWa (29659)1377

Method: Ag electrode; competitive complexation with Ag(I).

Cd++ gl NaClO4 25°C 0.10M U K1=6.36 B2=11.89 1977STc (29660)1378

C4H6N4O3 L Allantoin CAS 97-59-6 (6090)
5-Ureido-2,4-imidazolidinedione, 5-Ureidohydantoin; H2N.CO.NH.C3H3N2O2

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

Cd++ vlt NaNO3 25°C 0.50M U K1=3.72 B2=5.16 1988EAb (29683)1379

B3=6.38

C4H6O2 HL Crotonic acid CAS 107-93-7 (2990)
But-2-enoic acid; CH3.CH:CH.COOH

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

Cd++ ISE NaClO4 25°C 0.10M U K1=1.97 B2=2.33 1985MHa (29711)1380

C4H6O2S2 HL CAS 2224-02-4 (1225)
1,2-Dithiolane-3-carboxylic acid, Tetranorlipoic acid; C3H5S2.COOH

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

Cd++ gl diox/w 25°C 50% C K1=2.1 1978SPa (29740)1381

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

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

Cd++ gl NaCl 37°C 0.15M C K1=1.63 1999FTa (29897)1382

B(CdHL)=6.26

Cd++ gl KNO3 25°C 0.10M C K1=2.03 1997VZa (29898)1383

Cd++ vlt oth/un 25°C 0.1M U K1=1.4 1995FFa (29899)1384

Cd++ vlt KNO3 30°C 0.10M C M K1=1.90 B2= 3.28 1991STb (29900)1385
Method: polarography. Medium pH 9.5.
Ternary complexes with 2-amino-3-hydroxypyridine

Cd++ vlt KNO3 30°C 0.10M C M K1=1.90 B2= 3.28 1991STb (29901)1386
B(CdAL)=10.4
Method: polarography, medium pH 9.5. HA is 2-amino-3-hydroxypyridine.

Cd++ vlt NaNO3 25°C 2.0M C K1=1.34 B2= 2.04 1987KSg (29902)1387
B3=3.04
Method: polarography.

Cd++ vlt KNO3 30°C 1.50M U K1=1.48 B2=2.90 1985KCa (29903)1388
B3=3.40

Cd++ vlt NaNO3 25°C 1.0M C M K1=1.56 B2= 2.47 1984KZb (29904)1389
B3=2.86
B(CdAL)=6.71
B(CdAL2)=7.46
B(CdA2L)=8.05
Method: DP polarography. A is 1,3-diaminopropane.

Cd++ vlt NaNO3 25°C 2.0M C M K1=1.30 B2= 2.00 1981SSi (29905)1390
B3=3.0
Method: polarography. B(CdAL)=2.7, B(CdAL2)=4.7, B(CdA2L2)=6.6,
B(CdA3L)=5.7. A is imidazole.

Cd++ vlt KNO3 25°C 2.0M C K1=1.653 B2= 2.76 1980SBd (29906)1391
B3=3.045
Method: polarography.

Cd++ vlt NaNO3 25°C 3.0M U K1=1.54 B2=2.00 1978JBa (29907)1392
B3=3.08

Cd++ EMF none 25°C 0.0 C K1=1.60 B2=2.32 1976GUa (29908)1393

Cd++ vlt KNO3 27°C 2.10M U K1=1.47 B2=2.29 1972KGa (29909)1394
B3=2.74

Cd++ gl oth/un 25°C 0.10M U K1=2.1 1960YYa (29910)1395

Cd++ ISE oth/un 20°C 0.05M U K1=2.2 1934FRa (29911)1396

C4H6O4 HL Acetoxyacetic a CAS 13831-30-6 (4249)
Acetoxyethanoic acid; CH3.CO2.CH2.CO0H

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

Cd++ gl NaNO3 30°C 0.40M U K1=1.1 1970BTa (30084)1397

C4H6O4 H2L Me-Malonic Acid CAS 516-15-2 (816)
Methylpropanedioic acid; HOOC.CH(CH3).COOH

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.58 19680Va (30111)1398
K(Cd+HL)=1.27

C4H6O4S H2L Thiodiacetic CAS 123-93-3 (140)
2,2'-Thiodiglycolic acid, Thiodiethanoic acid; HOOC.CH2.S.CH2.COOH

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

Cd++ vlt KNO3 25°C 0.20M C K1=2.29 1985CEa (30202)1399
Method: differential pulse polarography, using anodically generated Hg++
as indicator ion.

Cd++ gl oth/un 25°C 0.10M U K1=2.6 1960YYa (30203)1400

C4H6O4S H3L Thiomalic acid CAS 70-49-5 (109)
2-Mercaptosuccinic acid, 2-Sulfanyl-1,4-butanedioic acid; HOOC.CH(SH).CH2.COOH

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

Cd++ gl KCl 25°C 0.10M C B2=14.83 2002CDc (30308)1401
B(Cd4HL4)=52.4
B(Cd4L4)=46.9
B(Cd4H-1L4)=37.3
B(Cd3L4)=41.12

B(CdH2L2)=27.4, B(CdHL2)=22.3.

Cd++ gl KNO3 25°C 0.20M C K1=10.05 B2=13.51 1990KUa (30309)1402
B(Cd3L4)=41.59

Data also by polarography (0.2 M KNO3): B1=9.61, B2=13.92

Cd++ gl NaCl 37°C 0.15M U B2=13.819 1987FCa (30310)1403
B(Cd3L2)=23.879
B(Cd2HL2)=24.916
B(Cd2L2)=20.236
B(Cd2H-1L2)=12.734

Cd++ gl oth/un 30°C 0.50M U K1=3.3 1982RAa (30311)1404

Cd++ vlt oth/un ? ? U K1=5.15 B2=5.88 1968SGc (30312)1405
B3=7.36

C4H6O4S2 H4L CAS 2418-14-6 (4264)
2,3-Dimercaptobutanedioic acid; HOOC.CH(SH).CH(SH).COOH

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KCl      25°C 0.10M C                2002CDc (30391)1406
                                     B(Cd4H5L4)=105.4
                                     B(Cd4H4L4)=100.9
                                     B(Cd4H3L4)=94.8
                                     B(Cd4H2L4)=87.4
B(Cd4HL4)=79.4, B(Cd4L4)=69.4.

```

```

-----
Cd++       gl  NaCl     37°C 0.15M U                K1=17.11      1984JSb (30392)1407
                                     B(CdHL)=23.50
                                     B(CdH3L)=28.73

```

```

*****
C4H6O4S2          H2L          CAS 505-73-7 (3585)
Dithiodiethanoic acid; HOOC.CH2.S.S.CH2.COOH

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaCl04  25°C 0.10M U                K1=1.9        1968SKd (30410)1408

```

```

*****
C4H6O4Se          H2L          CAS 6228-62-2 (984)
Selenodiethanoic acid; HOOC.CH2.Se.CH2.COOH

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3     25°C 0.10M C                K1=2.57      1975LPa (30447)1409
                                     K(Cd+HL)=1.82

```

```

*****
C4H6O5          H2L      Malic acid          CAS 617-48-1 (393)
2-Hydroxybutane-1,4-dioic acid, Hydroxy-succinic acid; HOOC.CH2.CH(OH).COOH

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaCl     37°C 0.15M C                K1=1.25      1999FTa (30563)1410

```

```

-----
Cd++       vlt KNO3   30°C 1.50M U                K1=1.90      B2=2.80      1985KCa (30564)1411
                                     B3=3.46

```

```

-----
Cd++       vlt KNO3   30°C 1.00M U                K1=1.90      B2=2.80      1983GCa (30565)1412
                                     B3=3.40

```

```

-----
Cd++       vlt NaNO3  25°C 2.10M U                K1=1.54      B2=2.60      1977JBa (30566)1413
                                     B3=3.42

```

```

-----
Cd++       vlt KNO3   27°C 0.10M U                K1=1.9        B2=2.8        1973KCb (30567)1414
                                     B3=3.4
                                     K(Cd+H2L)=0.57

```

```

-----
Cd++       vlt oth/un 25°C 2.00M U                K1=1.40      B2=3.00      1972TOa (30568)1415

```


B3=3.28

Cd++ gl NaClO4 25°C 0.10M U K1=4.76 B2=7.99 1970RFa (30569)1416

Cd++ gl NaClO4 20°C 0.10M U 1963CAa (30570)1417
K(Cd+H2L)=1.34
K(Cd+HL)=2.36

C4H6O5 H2L Diglycolic acid CAS 110-99-6 (243)
Di(carboxy)methyl ether, 2,2'-Oxydiethanoic acid; HOOC.CH2.O.CH2.COOH

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

Cd++ gl KCl 25°C 0.10M C K1=3.21 1984MMg (30837)1418
K(CdL+H)=1.75

Cd++ vlt NaClO4 25°C 0.40M C K1=2.6 B2= 3.90 1978NSa (30838)1419
B3=5.2

Method: polarography. Medium pH 1.4-10.1.

Cd++ gl oth/un 25°C 0.10M U K1=3.3 1960YYa (30839)1420

C4H6O6 H2L D-Tartaric acid CAS 147-71-7 (93)
D-Tartaric acid, D-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

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

Cd++ ISE KNO3 25°C 0.50M U K1=1.6 B2=3.0 1984BSb (30971)1421
B(Cd2L2)=4.6
B(Cd2H-2L2)=-8.6
B(Cd2H-3L2)=-18.3

C4H6O6 H2L DL-Tartaric acid CAS 133-37-9 (94)
DL-Tartaric acid,DL-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

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

Cd++ oth oth/un 25°C dil C K1=2.913 1982HKa (31003)1422
Method: isotachopheresis. Medium: 0.006-0.019 M tartrate buffer, pH 5.1.

Cd++ vlt NaNO3 25°C 2.00M U B2=3.7 1981SSa (31004)1423

C4H6O6 H2L L-Tartaric acid CAS 87-69-4 (92)
L-Tartaric acid, L-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

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

Cd++ ix oth/un 30°C dil C T K1=2.27 1992LHb (31159)1424
Medium: 0.2-5.0 mM tartaric acid eluent. At 40 C, K1=2.31

Cd++ dis oth/un RT 0.10M C K1=2.82 1990SKg (31160)1425
 Method: extraction of 109Cd as Cd(py)2I2 from 0.01 M KI solution into pyridine/benzene.

 Cd++ vlt NaClO4 30°C 1.0M C K1=2.17 B2= 3.23 1988GAb (31161)1426
 Method: polarography.

 Cd++ vlt KNO3 30°C 1.50M U K1=1.40 B2=2.20 1985KCa (31162)1427
 B3=2.94

 Cd++ gl KNO3 25°C 1.00M C K1=1.5 B2=2.70 1975B0a (31163)1428
 B(CdHL)=4.73
 B(CdHL2)=6.1
 B(CdH2L2)=9.3

 Cd++ gl NaClO4 25°C 0.10M U M K1=2.83 1975RMa (31164)1429
 B(CdL(Cys))=8.36
 K(Cd+L+HPO4)=8.13

 Cd++ vlt KNO3 27°C 2.10M U K1=1.30 B2=2.10 1973KCa (31165)1430
 B3=2.86

 Cd++ oth oth/un 33°C ? U K1=1.86 1972TPa (31166)1431
 K(Cd+H2L=CdL+2H)=-5.19
 K(CdL=Cd(H-1)L+H)=-8.59
 K(Cd(H-1)L=Cd(H-2)L+H)=-10.28

 Cd++ dis NaClO4 30°C 1.0M U K1=1.1 ? B2=2.2 ? 1965HSc (31167)1432
 B3=2.4 ?

 Cd++ dis NaClO4 20°C 0.10M U K1=3.71 ? 1963STc (31168)1433

 Cd++ ix oth/un ? ? U K2=4.49 1957KPb (31169)1434

 Cd++ oth oth/un ? ? U K2=3.34 1955K0a (31170)1435

C4H6O6 H2L meso-Tartaric CAS 147-73-9 (91)
 meso-2,3-Dihydroxybutanedioic acid; HOOC.CH(OH).CH(OH).COOH

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

 Cd++ vlt NaNO3 25°C 2.0M C B2=3.84 1987KSg (31424)1436
 Method: polarography.

C4H7NO2 HL (8137)
 (S)-Azetidine-2-carboxylic acid;

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

 Cd++ gl KNO3 25°C 0.10M C K1=5.0 B2= 9.20 1989ARa (31439)1437

K3=3.2

C4H7N02S2 H2L CAS 2030-77-5 (4281)
2-Dithiocarbaminopropanoic acid; CH3.CH(NH.CSSH).COOH

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

Cd++ EMF NaClO4 25°C 1.00M U K1=6.35 B2=12.10 1972RBb (31476)1438
B3=16.96

C4H7N02S2 H2L CAS 40520-03-4 (4280)
N-(Dithiocarboxy)aminopropanoic acid; HSSC.NH.CH2.CH2.COOH

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

Cd++ oth oth/un ? ? U K1=6.35 B2=12.10 1973RBc (31480)1439
B3=16.96

C4H7N03 HL CAS 543-24-8 (3586)
N-Acetylglycine; CH3.CO.NH.CH2.COOH

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

Cd++ gl NaNO3 30°C 0.40M U K1=1.13 1970BTa (31496)1440

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

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

Cd++ gl KNO3 25°C 0.10M C M K1=6.62 2003AHa (31756)1441
K(CdL+A)=3.57

HA is 3-amino-5-mercapto-1,2,4-triazole.

Cd++ gl NaNO3 25°C 0.10M C M K1=4.58 2000KAb (31757)1442
K(CdA+L)=4.83

H2A=Dipicolinic acid.

Cd++ vlt KNO3 25°C 0.10M C M K1=4.37 B2= 7.58 1998JKb (31758)1443
B3=10.24
B(CdAL)=4.86
B(CdA2L)=7.825
B(CdAL2)=10.525

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Cd++ gl NaClO4 25°C 0.20M U M K1=4.53 B2= 8.03 1997PJa (31759)1444
K(Cd(bpy)+L)=4.29
K(Cd(phen)+L)=4.57
K(CdA+L)=4.49
K(Cd(his)+L)=4.40

A is 2,2'-bipyridylamine. $K(\text{Cd}(\text{ida})+\text{L})=4.47$.

Cd++ gl KNO3 25°C 0.10M M M K1=6.62 1996AEa (31760)1445
Data for ternary complexes with dipicolinic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.37 B2= 7.58 1993DKb (31761)1446
B3=10.24
B(CdAL)=6.78
B(CdA2L)=9.10
B(CdAL2)=9.43

Method: polarography. Medium pH 8.5. HA is formic acid.
 $K(\text{H}+\text{L})=9.67$.

Cd++ gl NaClO4 25°C 0.20M U T M K1=4.53 B2= 8.03 1993PPa (31762)1447
K(CdA+L)=4.51

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl KNO3 25°C 0.10M C K1=4.68 B2=8.04 1990BBa (31763)1448
Using cyclic voltammetry: B2=8.1

Cd++ ISE NaClO4 25°C 1.00M C K1=4.54 B2=7.85 1989BFa (31764)1449
B3=11.00
B(CdHL)=10.80
B(CdH2L2)=21.45
B(CdH2L3)=25.15

Cd/Hg electrode also used

Cd++ gl KNO3 35°C 0.20M U M K1=4.31 B2=7.60 1989RVa (31765)1450
K(CdA+L)=3.62

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 27°C 0.20M U M K1=4.53 B2= 8.03 1988PPc (31766)1451
K(CdA+L)=4.51

A is 2,2'-dipyridylamine.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.10 B2= 7.20 1986KCb (31767)1452
B3=9.40
B(CuAL)=5.00
B(CuA2L)=5.19
B(CuAL2)=7.52

Method: polarography. Medium pH 8.5. H2A is ascorbic acid.
By potentiometry, $K(\text{H}+\text{L})=9.61$

Cd++ gl KNO3 25°C 0.20M C K1=4.68 B2= 8.27 1986SVa (31768)1453

Cd++ gl NaClO4 25°C 0.70M U K1=4.537 B2= 8.22 1985SCc (31769)1454

Cd++ vlt KNO3 25°C 1.00M U M 1984MRa (31770)1455
B(CdL(en))=9.87
B(CdL2(en))=10.4

B(CdL(en)2)=11.1

Cd++	gl	KNO3	25°C	0.10M	M		K1=4.62	B2= 7.69	1981GVa (31771)1456
Cd++	gl	NaClO4	25°C	3.00M	U		K1=4.89	B2=8.58	1981MAa (31772)1457
Cd++	ISE	oth/un	25°C	3.00M	U		K1=4.89	B2=8.58	1979MAa (31773)1458 B(CdH2L)=14.21 B(CdHL)=11.19
Cd++	gl	KNO3	25°C	0.10M	U		K1=4.7	B2=8.1	1975HLc (31774)1459
Cd++	gl	NaClO4	30°C	0.20M	U		K1=4.53	B2=8.03	1975JBb (31775)1460
Cd++	ISE	NaClO4	25°C	3.00M	C		K1=5.01	B2=9.12	1974WwA (31776)1461
Cd++	gl	KCl	25°C	0.10M	U T		K1=4.30	B2=7.55	1969MGg (31777)1462 K1(5 C)=4.52; K1(45 C)=4.12; B2(5C)=8.07; B2(45 C)=6.98
Cd++	vlt	KCl	25°C	0.10M	U		B2=8.00		1969MGg (31778)1463
Cd++	vlt	KNO3	30°C	1.0M	U M		B2=8.89		1964RSe (31779)1464 B3=10.31 B(CdL2(OH))=9.80 B(CdL2(CO3))=8.14 K(CdL2(NH3)2)=9.81
Cd++	vlt	oth/un	30°C	1.0M	U		B3=10.30		1962RSb (31780)1465
Cd++	gl	KCl	25°C	0.10M	U		K1=4.39		1953LMA (31781)1466
Cd++	gl	oth/un	15°C	.005M	U		B2=8.8		1953PEa (31782)1467 Medium: 0.005 M CdSO4
Cd++	gl	KCl	30°C	0.10M	U		K1=4.37	B2=7.48	1952CMB (31783)1468 ***** C4H7NO4 H2L IDA CAS 142-73-4 (118) Iminodiethanoic acid; HN(CH2.COOH)2
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference ExptNo
Cd++	gl	NaNO3	25°C	0.10M	M		K1=5.82		1996KSc (32162)1469
Cd++	gl	NaClO4	25°C	0.20M	M M				1996VBa (32163)1470 K(Cd(ala)+L)=4.22 K(Cd(phe)+L)=3.76 K(Cd(tyr)+L)=3.69 K(Cd(trp)+L)=3.82 K(Cd(gly-gly)+L)=2.10, K(Cd(gly-ala)+L)=2.16, K(Cd(en)+L)=4.72.

Cd++ ISE alc/w 25°C 78% C K1=8.34 B2=14.34 1995LBb (32164)1471
K3=3.07

B(Cd2L2)=19.65

Medium: 78% EtOH/H2O, 0.01 M LiNO3. (Kw=-14.76. B(Cd(OH)2)=14.75)

Cd++ gl NaClO4 25°C 0.50M U K1=5.55 B2=9.99 1992GLa (32165)1472
B(CdH-1L)=-5.3

Cd++ vlt KNO3 25°C 1.00M U M 1984MRa (32166)1473

B(CdL(Gly))=10.2

B(CdL(en))=10.7

B(CdL2(en))=11.5

B(CdL(en)2)=11.1

Cd++ ISE KNO3 25°C 0.10M U K1=5.48 B2=9.72 1983SVa (32167)1474

Cd++ ISE KNO3 25°C 0.10M U K1=5.96 B2=10.45 1983YWa (32168)1475

Cd++ oth NaClO4 25°C 2.00M U K1=5.80 B2=10.75 1981GKa (32169)1476

Method: chronopotentiometry. Using pH-metric titration K1=5.59, K2=4.38

Cd++ gl KNO3 25°C 2.5M M K1=5.62 1979FLc (32170)1477

Cd++ gl KCl 25°C 0.10M U T HM 1978KcC (32171)1478

K(CdL+A)=6.04

K(CdL+B)=10.92

K(CdL+C)=10.76

DH(K1)=-19.3 kJ mol⁻¹, DS=51 J K⁻¹ mol⁻¹. H2A=oxalic acid, H2B=malonic acid,
H2C=phthalic acid

Cd++ gl KNO3 25°C 0.10M U M 1971TSh (32172)1479

K(CdL+Ala)=3.55

K(CdL+Gly)=3.79

K(CdL+Asp)=3.89

Cd++ gl KNO3 30°C 0.10M U M 1971TSj (32173)1480

K(CdL+pn)=4.76

Cd++ EMF oth/un 30°C 0.10M U M 1970STf (32174)1481

K(CdL+en)=4.59

K(CdL+pn)=4.76

Cd++ gl KNO3 20°C 0.10M U H K1=5.73 B2=10.19 1964ANa (32175)1482

By calorimetry: DH(K1)=-6.1 kJ mol⁻¹, DS=89.0 J K⁻¹ mol⁻¹; DH(B2)=-22.9,
DS=116.6

Cd++ gl oth/un 25°C 0.10M U K1=5.35 B2=9.53 1957SYb (32176)1483

Cd++ gl KCl 30°C 0.10M U K1=5.35 B2=9.53 1952Cma (32177)1484

C4H7N05 H2L (1234)
N-Hydroxyiminodiethanoic acid; HO.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=4.94 B2=9.14	1987AKa	(32424)1485

C4H7N3S L CAS 14068-53-2 (1456)
2-Amino-5-ethyl-1,3,4-thiadiazole; C2N2S(C2H5).NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=1.24	1985GLa	(32444)1486

C4H7N3S L CAS 13275-68-8 (1427)
2-Ethylamino-1,3,4-thiadiazole; C2HN2S.NHC2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=1.06 B2=1.67 B3=1.83	1982GLa	(32450)1487

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=5.7 B2=10.70	1954CFa	(32519)1488

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	M	M		K1=4.11	1996AEa	(32656)1489

Data for ternary complexes with dipicolinic acid.

Cd++	EMF	NaCl	25°C	1.00M	C			K1=3.05 B2=5.40 B3=6.15	1996BFa	(32657)1490
------	-----	------	------	-------	---	--	--	-------------------------	---------	-------------

Method: Cd/Hg electrode

Cd++	vlt	KNO3	25°C	1.0M	U	M		K1=4.07 B2= 7.18 K3=1.92 B(CdAL)=5.95 B(CdA2L)=7.94 B(CdAL2)=8.30	1989KNb	(32658)1491
------	-----	------	------	------	---	---	--	--	---------	-------------

Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++	vlt	KNO3	25°C	1.0M	C	M		K1=4.07 B2= 7.18	1989NKc	(32659)1492
------	-----	------	------	------	---	---	--	------------------	---------	-------------

B3=9.10
 B(CdAL)=6.08
 B(CdAL2)=8.48
 K(CdAL+A)=2.04

Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=8.12.

 Cd++ gl NaClO4 25°C 3.00M U K1=3.89 B2=7.06 1981MAa (32660)1493

Cd++ gl KNO3 25°C 0.10M U T H B2=7.05 1980ZYb (32661)1494

Cd++ ISE NaClO4 25°C 3.00M C K1=4.071 B2=7.581 1974WWa (32662)1495
 B3=9.610

Cd++ vlt KNO3 30°C 1.0M U B2=6.90 1964RSe (32663)1496
 B3=8.58
 B(CdL3(OH))=9.22
 B(CdL2(NH3)2)=9.08

Cd++ vlt oth/un 30°C 1.0M U 1962RSa (32664)1497
 B3=8.60

Cd++ gl oth/un 15°C .005M U B2=7.1 1953PEa (32665)1498
 Medium: 0.005 M CdSO4

Cd++ gl oth/un 20°C 0.01M U B2=6.8 1950ALa (32666)1499

 C4H8N2O3 HL Gly-Gly CAS 556-50-3 (54)
 Glycyl-glycine; H2N.CH2.CO.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.20M	U	M	K1=3.27 B2= 6.00 K(Cd(bpy)+L)=3.26 K(Cd(phen)+L)=3.20 K(CdA+L)=3.26 K(Cd(his)+L)=3.15	1997PJa (32976)	1500

A is 2,2'-bipyridylamine. K(Cd(ida)+L)=3.19

Cd++ gl NaClO4 25°C 0.20M M K1=2.92 1996VBa (32977)1501

Cd++ gl NaClO4 25°C 0.20M M M K1=2.920 B2= 5.42 1994VBb (32978)1502
 B(Cd(Ala)L)=7.301
 B(Cd(Phe)L)=7.205
 B(Cd(Tyr)L)=7.374
 B(Cd(Trp)L)=7.400

B(Cd(His)L)=9.114.

Cd++ gl NaClO4 25°C 0.20M M K1=2.920 B2= 5.42 1994VBc (32979)1503

Cd++ nmr KCl 25°C 0.60M U M K1=1.18 B2=4.07 1992CPa (32980)1504

B(CdL(cytidine))=3.98

Cd++ gl KNO3 25°C 0.10M U K1=3.20 1992LPc (32981)1505

Cd++ vlt KNO3 25°C 0.10M C K1=2.72 B2= 4.83 1989BSa (32982)1506
B3=6.54

Method: SW voltammetry

Cd++ gl NaNO3 37°C 0.15M M M K1=3.75 B2=6.08 1987MOB (32983)1507
B(CdHL)=11.35
B(CdLA)=7.09
B(CdLA4)=14.70

A=imidazole. Also B(CdHLB)=17.36, B(CdL2B)=11.91, B(CdHL2B)=20.48,
B(CdH2L2B)=28.48, B(CdH4LB2)=47.00, where B=pyridoxamine.

Cd++ gl KNO3 25°C 0.20M C K1=2.89 B2= 4.86 1986SVa (32984)1508

Cd++ gl KCl 20°C 0.20M U K1=2.72 B2=4.50 1982RRd (32985)1509

Cd++ vlt KNO3 25°C 0.10M U K1=2.70 B2=5.15 1974NBa (32986)1510
K(Cd+HL)=1.00

Cd++ gl KNO3 25°C 0.10M U K1=2.86 B2=5.35 1972BBc (32987)1511

Cd++ nmr oth/un 25°C 0.80M U K1=2.76 1972RLb (32988)1512
K(Cd+HL)=1.04

Medium: 0.8 M, 0.2 Cd(NO3)2

Cd++ gl oth/un 40°C 0.06M U T H K1=2.99 B2=5.49 1966VQa (32989)1513
K1=3.16(10 C),3.08(25 C),3.04(30 C); B2=5.84(10 C),5.65(25 C),5.57(30 C)
DH(K1)=-10.5 kJ mol⁻¹,DS=23.8 J K⁻¹ mol⁻¹; DH(B2)=-19.6,DS=41.8

Cd++ gl alc/w 25°C 70% U I K1=4.26 B2=7.62 1966VQa (32990)1514
Medium: 70% MeOH. 39.1% MeOH: K1=3.57, B2=6.59
In 45,6% dioxan: K1=4.14,B2=7.47; 60%: K1=4.93,B2=8.90

Cd++ gl oth/un 25°C 0.15M U K1=2.95 B2=5.82 1958LCa (32991)1515

Cd++ vlt oth/un 25°C 0.15M U B2=5.4 1958LCa (32992)1516

Cd++ gl none 25°C 0.0 U K1=3.33 B2=5.87 1955EMa (32993)1517

Cd++ gl oth/un 25°C 0.01M U K1=3.2 1954PEa (32994)1518

Cd++ gl oth/un 21°C 0.01M U B2=5.4 1952PEa (32995)1519

Medium: CdSO4

C4H8N2S L Thiosinamine CAS 109-57-9 (2377)

1-Allylthiourea; CH2:CH.CH2.NH.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KCl	25°C	0.10M	U	T H		K1=1.46 B2=2.15 B3=3.41	1974RGa	(33152)1520

45 C: K1=1.25, B2=1.90, B3=3.00; DH=-36.6 kJ mol⁻¹, DS=-60 J K⁻¹ mol⁻¹

Cd++	vlt	alc/w	?	80%	U	I		K1=2.31 B2=3.35 B3=4.67 B4=5.10 B5=6.85 B6=8.08	1973Tmb	(33153)1521
------	-----	-------	---	-----	---	---	--	--	---------	-------------

Medium: 0.01 NH₄NO₃, 0-80% MeOH. K1(20%)=1.34, B2(20%)=2.40, B3(20%)=3.08, B4(20%)=4.24; K1(0%)=1.32, B2(0%)=2.30, B3(0%)=2.87, B4(0%)=3.88

Cd++	vlt	alc/w	?	60%	U	I		K1=1.89 B2=2.81 B3=3.93 B4=5.05 B5=5.67 B6=6.58	1971TMe	(33154)1522
------	-----	-------	---	-----	---	---	--	--	---------	-------------

Medium: 0.01 NH₄NO₃, 0-80% EtOH. K1(20%)=1.39, B2(20%)=2.3, B3(20%)=2.80, B4(20%)=3.95; K1(0%)=1.31, B2(0%)=2.34, B3(0%)=2.80, B4(0%)=3.95

C4H8N2S HL CAS 2055-46-1 (1522)
3,4,5,6-Tetrahydro-pyrimidine-2-thiol; C4H7N2.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO ₃	30°C	0.50M	U			K1= 3.6 B2=8.10	1989WIa	(33161)1523

C4H8OS₂ HL CAS 6253-38-9 (589)
(Propoxy)dithiomethanoic acid; CH₃.CH₂.CH₂O.CSSH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO ₃	25°C	0.40M	C			B3=13.94	1984HSb	(33196)1524

Method: polarography.

Cd++	dis	KNO ₃	25°C	1.00M	U			B2=9.2	1983SAa	(33197)1525
------	-----	------------------	------	-------	---	--	--	--------	---------	-------------

C4H8OS₂ HL CAS 108-25-8 (8865)
Isopropoxydithiomethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO ₃	25°C	0.40M	C			B3=14.55	1984HSb	(33200)1526

Method: polarography.

C4H8O₂ HL CAS 107-92-6 (1118)

n-Butanoic acid; CH3.CH2.CH2.COOH

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

Cd++ oth NaClO4 25°C 2.0M U K1=1.24 1990FTa (33316)1527
Methods: averaged results from potentiometric, polarographic and
spectrophotometric measurements.

Cd++ ISE NaClO4 25°C 8.00M U I K1=2.34 B2=4.42 1976FHa (33317)1528
B3=5.76

Cd++ EMF NaClO4 25°C 2.00M U K1=1.20 B2=2.03 1970FMa (33318)1529

Cd++ vlt NaClO4 25°C 2.00M U K1=1.30 B2=1.93 1968FPa (33319)1530
B3=2.34
B4=1.98

C4H8O2S HL CAS 623-51-8 (4265)
Ethyl-2-mercaptoacetate; HS.CH2.CO2.C2H5

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

Cd++ vlt NaClO4 25°C 1.00M U 1972TBc (33364)1531
B4=16.75

C4H8O2S HL CAS 627-04-3 (3007)
S-Ethylthioethanoic acid; CH3.CH2.S.CH2.COOH

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

Cd++ cal NaNO3 25°C 1.0M U H K1=1.27 B2= 2.12 1977ARa (33400)1532
K3=-0.38
DH(K1)=3.1 kJ mol⁻¹, DH(K2)=1, DH(K3)=0

Cd++ ISE NaClO4 25°C 1.00M U K1=1.27 B2=2.12 1969SAa (33401)1533
B3=2.51
B4=2.72

C4H8O3 HL CAS 594-61-6 (81)
2-Hydroxy-2-methylpropanoic acid; (CH3)2C(OH).COOH

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

Cd++ EMF NaClO4 25°C 1.0M U K1=1.24 B2=2.16 1967TGa (33439)1534
K3=0.3

Method: quinhydrone electrode.

C4H8O3 HL CAS 965-70-8 (423)
2-Hydroxybutanoic acid; CH3.CH2.CH(OH).COOH

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

Cd++	oth	NaClO4	25°C	2.0M	U			K1=1.26	1990FTa (33570)	1535
------	-----	--------	------	------	---	--	--	---------	-----------------	------

Methods: averaged results from potentiometric, polarographic and spectrophotometric measurements.

Cd++	EMF	NaClO4	25°C	2.00M	U			K1=1.29 B2=2.07 B3=3.00	1978MMg (33571)	1536
------	-----	--------	------	-------	---	--	--	-------------------------------	-----------------	------

Cd++	vlt	NaClO4	25°C	2.00M	U			K1=1.23 B2=2.13 B3=2.25 B4=2.45	1973NPa (33572)	1537
------	-----	--------	------	-------	---	--	--	--	-----------------	------

Cd++	gl	KCl	30°C	0.10M	U			K1=1.27	1938CKa (33573)	1538
------	----	-----	------	-------	---	--	--	---------	-----------------	------

C4H8O3 HL CAS 300-85-6 (30)
3-Hydroxybutanoic acid; CH3.CH(OH).CH2.COOH

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

Cd++	oth	NaClO4	25°C	2.0M	U			K1=1.20	1990FTa (33613)	1539
------	-----	--------	------	------	---	--	--	---------	-----------------	------

Methods: averaged results from potentiometric, polarographic and spectrophotometric measurements.

Cd++	EMF	NaClO4	25°C	2.00M	U			K1=1.28 B2=2.10 B3=2.49	1978MMg (33614)	1540
------	-----	--------	------	-------	---	--	--	-------------------------------	-----------------	------

Cd++	vlt	NaClO4	25°C	2.00M	U			K1=1.11 B2=2.20 B4=2.35	1973NPa (33615)	1541
------	-----	--------	------	-------	---	--	--	-------------------------------	-----------------	------

C4H8O3 HL CAS 591-81-1 (39)
4-Hydroxybutanoic acid; HO.CH2.CH2.CH2.COOH

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

Cd++	EMF	NaClO4	25°C	2.00M	U			K1=1.33 B2=2.00 B3=2.68	1978MMg (33650)	1542
------	-----	--------	------	-------	---	--	--	-------------------------------	-----------------	------

Cd++	ISE	NaClO4	25°C	1.00M	C			K1=1.10 B2=1.60	1974BJa (33651)	1543
------	-----	--------	------	-------	---	--	--	--------------------	-----------------	------

Cd++	vlt	NaClO4	25°C	2.00M	U			K1=1.45 B2=2.20 B4=2.43	1973NPa (33652)	1544
------	-----	--------	------	-------	---	--	--	-------------------------------	-----------------	------

C4H8O3 HL Ethoxyacetic ac CAS 627-03-2 (2996)
Ethoxyacetic acid; C2H5.O.CH2.COOH

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

Cd++	vlt	NaClO4	25°C	1.0M	C T H			K1=1.20 B2= 1.54 B3=1.04	1984PRb (33670)	1545
------	-----	--------	------	------	-------	--	--	--------------------------------	-----------------	------

B4=1.70

Method: polarography. Medium pH 6.1. Also data for 15 C and 10% MeOH/H2O.
DH(K1)=41.1 kJ mol-1, DH(B2)=-3.0, DH(B3)=-25.8, DH(B4)=48.3.

Cd++ cal NaNO3 25°C 1.0M U H K1=1.07 B2= 1.69 1977ARa (33671)1546
K3=-0.15

DH(K1)=4.5 kJ mol-1, DH(K2)=0, DH(K3)=40

Cd++ ISE NaClO4 25°C 1.00M U K1=1.07 B2=1.70 1969SAa (33672)1547
B3=1.54
B4=1.99

C4H8S L CAS 110-01-0 (150)
Tetrahydrothiophene; cyclo(-CH2.CH2.S.CH2.CH2-)

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

Cd++ nmr alc/w 25°C 50% C K1=-0.26 1980SSa (33732)1548

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

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

Cd++ ISE R4N.X 25°C 2.00M U K1=2.68 B2=4.70 1969PDa (33790)1549
K3=1.47
K4=1.20

Medium: NH4NO3

C4H9NO2 HL Aminoisobutyric CAS 144-90-1 (188)
2-Amino-2-methylpropanoic acid; H2N.C(CH3)2.COOH

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

Cd++ gl KNO3 35°C 0.10M C M K1=3.71 B2= 7.01 1998ZWa (33833)1550
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime

Cd++ gl oth/un 19°C 0.01M U B2=7.2 1952PEa (33834)1551
Medium: CdSO4

C4H9NO2 HL 2-Aminobutyric CAS 2835-81-6 (571)
2-Aminobutanoic acid; CH3.CH2.CH(NH2).COOH

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

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (33898)1552
K(Cd(nta)+L)=2.56

Cd++ gl oth/un 25°C 3.00M U M K1=3.64 B2=6.88 1982MOB (33899)1553

B(CdAL)=7.05

Medium: LiClO4. HA=2-aminopentanoic acid

Cd++ gl NaClO4 25°C 3.00M U K1=3.98 B2=7.27 1981MAa (33900)1554

Cd++ vlt NaClO4 25°C 0.40M U K1=3.8 B2=6.3 1979NSa (33901)1555
B3=9.0
B(Cd(OH)L)=8.2
B(Cd(OH)L2)=10.5

Cd++ gl NaClO4 25°C 0.10M U K1=3.46 B2=6.86 1976SSf (33902)1556

Cd++ gl KCl 30°C 0.10M U K1=3.36 B2=6.15 1964PCa (33903)1557

Cd++ gl oth/un 17°C 0.01M U B2=6.8 1952PEa (33904)1558

Medium: 0.005-0.01 M CdSO4, 15-20 C

C4H9NO2 HL 4-Aminobutyric CAS 56-12-2 (574)
4-Aminobutanoic acid; H2N.CH2.CH2.CH2.COOH

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

Cd++ gl KCl 25°C 0.10M U T K1=3.36 1969MGg (33982)1559
K1(5 C)=2.96, K1(45 C)=2.27, B2(45 C)=4.95

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

Cd++ gl KNO3 25°C 0.10M U M K(CdA+L)=3.37 1972IVc (34028)1560

H2A=iminodiethanoic acid

C4H9NO2S HL CAS 88806-98-8 (3019)
2-Amino-3-mercaptopropanoic acid methyl ester, cysteine methyl ester;
HSCH2CH(NH2)COOCH3

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

Cd++ gl KNO3 25°C 0.20M C K1=8.51 B2=16.41 1990KUa (34053)1561
B3=19.28
B(Cd2L3)=29.52

Cd++ gl KNO3 25°C 0.10M U K1=8.89 B2=16.24 1969PPd (34054)1562
B(Cd2L3)=29.73
K(CdLOH+H)=9.2

Cd++ gl KNO3 25°C 0.15M U K1=4.82 1955LMa (34055)1563

C4H9NO2S HL Methylcysteine CAS 1187-84-4 (84)
 2-Amino-3-methylmercaptopropanoic acid; H2N.CH(CH2.S.CH3)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	oth	NaClO4	30°C	0.10M	C	M		K1=3.95 B2= 7.50 K(Cd(nta)+L)=3.54	1991TSc	(34089)1564

Method: electrophoresis. Medium: pH 5.8.

Cd++	gl	KNO3	25°C	0.20M	C			K1=3.79 B2= 7.04 B3=9.63	1986SVa	(34090)1565
------	----	------	------	-------	---	--	--	-----------------------------	---------	-------------

Cd++	gl	KNO3	25°C	0.10M	U			K1=3.77 B2=7.09	1964LMa	(34091)1566
------	----	------	------	-------	---	--	--	-----------------	---------	-------------

C4H9NO2S HL CAS 29768-80-7 (2597)
 2-Amino-4-mercaptobutanoic acid; HOOC.CH(NH2).CH2.CH2.SH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	M	M		K(Cd(nta)+L)=5.72 K(Cd(nta)+H+L)=14.76	1990SHd	(34111)1567

C4H9NO3 HL Threonine CAS 72-19-5 (48)
 2-Amino-3-hydroxybutanoic acid; H2N.CH(CH(OH).CH3)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C	M		K1=4.00 B2= 7.00 B3=9.50 B(CdAL)=4.25 B(CdA2L)=6.88 B(CdAL2)=9.72	1998JKb	(34262)1568

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Cd++	vlt	KNO3	25°C	1.0M	C	M		K1=4.00 B2= 7.00 B3=9.50 B(CdAL)=5.96 B(CdA2L)=8.00 B(CdAL2)=8.37	1993DKb	(34263)1569
------	-----	------	------	------	---	---	--	---	---------	-------------

Method: polarography. Medium pH 8.5. HA is formic acid.
 K(H+L)=9.00.

Cd++	gl	NaClO4	25°C	0.20M	U	T	M	K1=4.02 B2= 7.22 K(CdA+L)=3.72	1993PPa	(34264)1570
------	----	--------	------	-------	---	---	---	-----------------------------------	---------	-------------

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++	gl	KNO3	35°C	0.20M	U		M	K1=3.89 B2=7.17 K(CdA+L)=3.38	1989RVa	(34265)1571
------	----	------	------	-------	---	--	---	----------------------------------	---------	-------------

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 27°C 0.20M U M K1=4.02 B2= 7.22 1988PPc (34266)1572
K(CdA+L)=3.72

A is 2,2'-dipyridylamine.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.00 B2= 6.70 1986KCb (34267)1573
B3=9.10
B(CuAL)=4.80
B(CuA2L)=5.11
B(CuAL2)=7.35

Method: polarography. Medium pH 8.5. H2A is ascorbic acid.
By potentiometry, K(H+L)=9.10

Cd++ gl NaCl 37°C 0.15M U M K1=3.54 B2=5.92 1986XHa (34268)1574
B(CdHL)=10.47
B(CdH2L)=13.15
B(CdL(His))=13.02
B(CdH2L(His))=28.17

Cd++ vlt KNO3 30°C 0.10M C K1=4.00 B2= 6.70 1985KCb (34269)1575
B3=9.10

Method: polarography. Medium pH 8.9.

Cd++ vlt KNO3 30°C 1.0M C M K1=4.06 B2= 7.06 1984CGc (34270)1576
B3=9.02
B(CdAL)=9.00
B(CdAL2)=11.16
B(CdA2L)=12.20

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl oth/un 30°C 0.20M U M K1=4.02 1984JOb (34271)1577
K(Cd(bpy)+L)=3.86

Medium: not stated.

Cd++ gl KNO3 25°C 0.10M U K1=3.9 B2=7.2 1975HLc (34272)1578

Cd++ gl oth/un 20°C .005M U B2=7.2 1953PEa (34273)1579

Medium: 0.005 CdSO4

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

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

Cd++ gl KCl 25°C 0.10M U K1=3.69 1971BDc (34354)1580

C4H9N3O2 HL CAS 57-00-1 (8275)
Methylguanidoethanoic acid;

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

Cd++ vlt NaClO4 25°C 0.10M C K1=1.16 B2= 2.56 1983SSf (34417)1581
Method: polarography.

C4H9N3S L CAS 3766-55-0 (8229)
4-Allyl-3-thiosemicarbazide;

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

Cd++ EMF KNO3 25°C 1.0M C K1=2.60 B2= 4.81 1976TRb (34431)1582
B3=5.95

Method: Cd/Hg electrode.

C4H10N2 L CAS 56123-06-9 (8023)
1,3-Diamino-2-methylenepropane;

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

Cd++ gl KNO3 25°C 0.50M U K1=4.32 B2= 7.60 1975HSb (34488)1583

C4H10N2 L (7831)
3-Aminopyrrolidine;

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

Cd++ gl KCl 25°C 0.10M C K1=3.4 2001KSa (34494)1584
B(CdH-1L2)=-2.1

C4H10N2 L Piperazine CAS 110-85-0 (2826)
Piperazine; cyclo(-CH2.CH2.NH.CH2.CH2.NH-)

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

Cd++ ISE R4N.X 25°C 2.00M U K1=2.28 B2=4.07 1969PMb (34504)1585
K3=1.48

Medium: NH4NO3

C4H10N2O L CAS 1857-19-8 (3015)
Sarcosine methylamide; CH3.NH.CH2.CO.NH.CH3

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

Cd++ gl oth/un 25°C 0.01M U K1=2.14 B2=3.73 1959DLb (34512)1586

C4H10N2O2 HL EDMA (2784)
Diaminoethane-N-ethanoic acid; H2N.CH2.CH2.NH.CH2.COOH

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

Cd++ gl NaClO4 25°C 1.00M C K1=6.86 19770Ha (34589)1587

Cd++ vlt oth/un 25°C 0.20M U K1=8.48 B2=13.23 1970FUa (34590)1588
Medium: Na ethanoate

C4H10N2S L CAS 2489-77-2 (2568)
N,N,N'-Trimethylthiocarbamide; (CH3)2N.CS.NH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	oth/un	25°C	0.10M	U			K1=0.48 B3=2.73 B4=2.60 B5=3.54 B6=5.28	1975FFb (34631)	1589

Medium: 40% EtOH/H2O. In 80% EtOH/H2O, K1=1.05; B2=2.03; B3=2.90; B4=3.79; B5=4.30; B6=5.71

C4H10N2S L CAS 10220-64-7 (2569)
N-Methyl-N-ethylthiocarbamide; (CH3)(C2H5)N.CS.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	oth/un	25°C	0.10M	U			K1=1.84 B3=4.70 B4=5.98 B5=6.66 B6=7.34	1975FFb (34635)	1590

Medium: 40% EtOH/H2O. In 80% EtOH/H2O, K1=1.80; B2=3.55; B3=4.90; B4=5.87; B5=6.08; B6=6.84

C4H10N4O2 L CAS 4146-43-4 (2564)
1,4-Butanedioic acid dihydrazide; H2N.NH.CO.CH2.CH2.CO.NH.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	25°C	1.0M	U			K1=1.90 B3=4.99 B4=4.95	1966KSb (34646)	1591

C4H10O2S L CAS 111-48-8 (4275)
3-Thiapentane-1,5-diol; HO.CH2.CH2.S.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	1.0M	C			K1=-0.32	1979SRa (34680)	1592

C4H10O2S2 H2L Dithiothreitol CAS 3483-12-3 (8164)
Threo-2,3-Dihydroxy-1,4-dithiobutane

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

Cd++ gl KNO3 25°C 0.10M C K1=14.64 B2=18.50 2001KLb (34694)1593
B(CdH-1L2)=8.3

B(CdH-1L2) by spectrophotometry.

C4H11N L Butylamine CAS 109-73-9 (159)
1-Aminobutane; CH3.CH2.CH2.CH2.NH2

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

Cd++ ISE non-aq 25°C 100% C H K1=2.6 B2= 4.20 2001CGd (34756)1594
B3=6.0

Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.

By calorimetry: DH(K1)=-24.1, DH(B2)=-58, DH(B3)=-71 kJ mol⁻¹.

C4H11N L Diethylamine CAS 109-89-7 (1331)
Diethylamine, 3-azapentane; (C2H5)2NH

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

Cd++ ISE NaClO4 25°C 0.10M U M B2=8.04 1972JJa (34814)1595
B(Cd(NH3)L2)=9.70
B(Cd(NH3)2L2)=10.51

Cd++ ISE R4N.X 25°C 2.00M U K1=2.84 B2=4.98 1968PMc (34815)1596
K3=1.50
K4=0.83
B4=7.30

Medium: NH4NO3

C4H11NO L CAS 110-73-6 (900)
2-(Ethylamino)ethanol; CH3.CH2.NH.CH2.CH2.OH

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

Cd++ vlt KNO3 25°C 0.10M U B2=4.46 1980AAa (34836)1597
B3=4.81

C4H11NO L CAS 124-68-5 (948)
2-Amino-2-methylpropan-1-ol; CH3.C(NH2)(CH3).CH2.OH

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

Cd++ gl KNO3 25°C 0.5M C K1=2.41 B2= 4.48 1998CCc (34850)1598

C4H11NO2 L Diethanolamine CAS 111-42-2 (89)
2,2'-Iminodiethanol; HN(CH2.CH2.OH)2

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

Cd++ sp R4N.X 25°C 2.00M C I K1=2.47 B2=4.52 1983DBa (34947)1599
K3=0.78

Cd++ gl NaClO4 25°C 0.50M U H K1=2.40 B2=4.52 1978MHa (34948)1600
By calorimetry, DH1=-9.3 kJ mol⁻¹, DS1=15 J K⁻¹ mol⁻¹, DH(B2)=-18, DS(B2)=26

Cd++ gl KNO3 25°C 2.00M U K1=2.46 1970URa (34949)1601

Cd++ vlt alc/w 25°C 20% U I B2=5.00 1969MIc (34950)1602
B3=5.61

Medium: 0-94% EtOH. B2(0%)=4.30, B2(20%)=5.00, B2(40%)=5.08, B2(94%)=7.93

Cd++ vlt alc/w 25°C 100% U I B2=10.84 1964MSd (34951)1603
B3=11.30
B4=12.72

Medium:EtOH,0.01M NaClO4. B2=4.30(0%),5.0(20%),5.08(40%),5.30(60%),6.36(80%)
7.93(94%); B3=5.08(0%),5.61(20%),5.83(40%),6.30(60%),6.83(80%),8.51(94%)

Cd++ vlt KNO3 25°C 0.10M U K1=2.40 B2=4.52 1960MPa (34952)1604

C4H11NO2 L CAS 115-69-5 (949)
2-Amino-2-methyl-1,3-propanediol; HO.CH2.C(NH2)(CH3).CH2.OH

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

Cd++ gl KNO3 25°C 0.5M C K1=2.16 B2= 3.88 1998CCc (34982)1605

C4H11NO3 L Tris buffer CAS 77-86-1 (550)
2-Amino-2-(hydroxymethyl)-propan-1,3-diol; (HO.CH2)3C.NH2

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

Cd++ gl KNO3 25°C 0.5M C K1=2.06 B2= 3.69 1998CCc (35046)1606

Cd++ gl KNO3 25°C 0.10M C M K1=1.94 1979FHa (35047)1607
K(Cd(ATP)+L)=1.17

Cd++ vlt KNO3 RT 1.0M C K1=3.70 B2= 4.00 1978PSc (35048)1608
B3=4.78
B4=5.15

Method: polarography.

Cd++ vlt NaClO4 25°C 2.00M U B2=5.46 1975BMb (35049)1609

C4H11N08P2 H5L CAS 2439-99-8 (2129)
N-Carboxymethyl-N,N-bis(methylenephosphonic acid); HOOC.CH2.N(CH2.PO3H2)2

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

Cd++ gl KNO3 25°C 0.10M C K1=11.84 2000SDa (35099)1610

K(CdL+H)=6.27
K(CdHL+H)=4.83
K(CdH2L+H)=3.2
K(CdL+OH)=2.8

C4H11NS HL CAS 108-02-1 (1792)
1-Mercapto-2-(N,N-dimethyl)aminoethane; HS.CH2.CH2.N(CH3)2

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

Cd++ gl KNO3 20°C 0.25M U I K1=8.25 B2=15.98 1973MSd (35133)1611
0.25 KNO3, 25% MeOH: K1=8.69, K2=8.44; 25% EtOH: K1=8.86, K2=8.52

C4H11N3 L CAS 171868-16-9 (7833)
cis-3,4-Diaminopyrrolidine;

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

Cd++ gl KCl 25°C 0.10M C K1=4.44 B2= 7.90 2001KSa (35161)1612
B(CdHL)=12.33

C4H11OPS2 HL CAS 995-79-9 (4283)
O-Ethyl hydrogen P-ethylphosphonodithioate;

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

Cd++ vlt alc/w ? 90% U K1=9.9 1971TCa (35205)1613
Medium: 90% EtOH, 0.15 M NaClO4

C4H11O2PS2 H3L CAS 298-06-6 (210)
O,O'-Diethyldithiophosphoric acid; (C2H5O)2P(S)SH

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

Cd++ vlt mixed RT 50% C B2=5.96 1986HSd (35224)1614
B3=7.82
B4=8.76

Medium: 50% v/v DMF/H2O. Method: polarography.

Cd++ vlt alc/w ? 90% U B2=8.7 1971TCa (35225)1615
Medium: 90% EtOH, 0.15 M NaClO4

Cd++ EMF mixed 25°C 80% U I K1=4.65 B2=8.65 1967LSc (35226)1616
Medium:80% acetone,1 M NaClO4. K1=3.45(60%),3.80(70%); B2=5.85(60%),6.7(70%)

Cd++ vlt alc/w 25°C 90% U I B2=9.15 1967SFb (35227)1617
Medium: 90% EtOH, 0.12 M LiNO3. B2=6.48(50%),6.93(60%),7.40(70%),8.18(80%)

C4H11O4P H2L (5867)
n-Butyl phosphoric acid; C4H9.O.PO(OH)2

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.10M C      K1=2.61      1988MSa (35283)1618
*****
C4H11PS2      HL      CAS 886-54-6 (3591)
Diethylphosphinodithioic acid; (CH3.CH2)2PSSH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      vlt alc/w  ?  90% U      B2=11.0      1971TCa (35293)1619
Medium: 90% EtOH, 0.15 M NaClO4
*****
C4H12N2      L      Putrescine      CAS 110-60-1 (360)
1,4-Diaminobutane; H2N.(CH2)4.NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   20°C 0.10M C      M      2003Lba (35359)1620
      B(CdAHL)=16.88
      K(CdA+HL)=3.90
A is cytidine.
-----

```

```

-----
Cd++      gl  KNO3   20°C 0.10M U      K1=3.98  B2= 7.20  1999Lba (35360)1621
-----

```

```

-----
Cd++      gl  oth/un 20°C 1.0M U      K1=3.6      1962SSc (35361)1622
      K(Cd+HL)=2.3
Medium: Ba(ClO4)2
*****
C4H12N2      L      Dimeen      CAS 110-70-3 (125)
N,N'-Dimethyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH.CH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      ISE non-aq 25°C 100% C      H      K1=5.22  B2= 9.61  2001CGd (35417)1623
      B3=11.09
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.
By calorimetry: DH(K1)=-43.8, DH(B2)=-90.0, DH(B3)=-143.1 kJ mol-1.
-----

```

```

-----
Cd++      ISE R4N.X 25°C 0.10M C      K1=5.28  B2= 8.90  2001CGd (35418)1624
      B3=10.8
Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4.
-----

```

```

-----
Cd++      ISE KNO3  25°C 1.00M U      K1=5.20  B2=8.74  1973CPd (35419)1625
      B3=10.59
      B(CdL2(OH))=10.94
*****
C4H12N2      L      CAS 108-00-9 (2661)
N,N-Dimethyl-1,2-diaminoethane; (CH3)2N.CH2.CH2.NH2
-----

```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	1.00M	U			K1=4.81 B2=8.11 B3=9.41 B(CdLOH)=8.69	1973CPd (35454)	1626

C4H12N2O L CAS 2752-17-2 (312)
Bis-(2-aminoethyl)ether; H2N.CH2.CH2.O.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE non-aq	dmsO, 0.1 M Et4NClO4.	25°C	100%	C H			K1=5.00 B2=10.41	2004DMb (35502)	1627

Method: Cd ion selective electrode.
DH(K1)=-42 kJ mol⁻¹, DS(K1)=-47 J K⁻¹ mol⁻¹, DH(B2)=-93, DS(B2)=-114

Cd++	gl	NaNO3	25°C	0.10M	U			K1=5.27 B2=9.33	1986TSa (35503)	1628
------	----	-------	------	-------	---	--	--	--------------------	-----------------	------

C4H12N2O L CAS 111-41-1 (648)
N-(2-Hydroxyethyl)diaminoethane, 1,4-Diaza-7-oxaheptane; H2N.CH2.CH2.NH.CH2.CH2.OH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE non-aq	dmsO, 0.1 M Et4NClO4.	25°C	100%	C H			K1=5.35 B2=10.56 B3=13.0	2004DMb (35537)	1629

Method: polarography.
DH(K1)=-37 kJ mol⁻¹, DS(K1)=-23 J K⁻¹ mol⁻¹, DH(B2)=-86, DS(B2)=-87, DH(B3)=-141, DS(B3)=-225. Calorimetry.

Cd++	vlt	NaNO3	25°C	0.50M	U			K1=5.08 B2=9.44 B3=11.25 K(Cd+OH+2L)=12.06	1997CUa (35538)	1630
------	-----	-------	------	-------	---	--	--	---	-----------------	------

Cd++	gl	NaNO3	25°C	0.10M	U			K1=5.02 B2=9.19	1986TSa (35539)	1631
------	----	-------	------	-------	---	--	--	--------------------	-----------------	------

Cd++	vlt	KNO3	30°C	1.0M	C			K1=5.39 B2=9.80	1984CGc (35540)	1632
------	-----	------	------	------	---	--	--	--------------------	-----------------	------

Method: polarography.

Cd++	vlt	NaClO4	20°C	0.10M	C			K1=5.48 B2=9.78	1983SAb (35541)	1633
------	-----	--------	------	-------	---	--	--	--------------------	-----------------	------

Method: polarography.

Cd++	vlt	KNO3	30°C	1.50M	C			K1=5.39 B2=9.80	1982SCa (35542)	1634
------	-----	------	------	-------	---	--	--	--------------------	-----------------	------

Cd++	vlt	NaClO4	25°C	1.0M	C I			K1=7.14 B2=9.36	1980PAa (35543)	1635
------	-----	--------	------	------	-----	--	--	--------------------	-----------------	------

Method: polarography. Medium: pH 6.6. Also data for a range of mixed (25-60%) organic/H2O solvents:

Cd++	gl	oth/un	25°C	0.50M	U			K1=4.93 B2=9.23	1960HDa (35544)	1636
------	----	--------	------	-------	---	--	--	--------------------	-----------------	------

C4H12N2S L CAS 871-76-1 (1854)
1,5-Diamino-3-thiapentane; H2N.CH2.CH2.S.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	30°C	1.0M	U		K1=5.47 B2=8.99	1956BFc	(35565)1637

C4H12O7P2		H3L					CAS 52811-47-9	(7665)	
N-Butyldiphosphoric acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	M		K1=4.51	1999SSa	(35582)1638

C4H13N3		L					CAS 14478-63-8	(3000)	
1,3-Diamino-2-aminomethylpropane; H2N.CH2.CH(CH2.NH2).CH2.NH2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U		K1=5.40 K(Cd+HL)=3.40 K(Cd+H2L)=1.55	1962ANb	(35631)1639

C4H13N3		L		Dien			CAS 111-40-0	(584)	
1,4,7-Triazaheptane, 2,2'Iminobis(ethylamine), diethylenetriamine; NH2.(CH2)2.NH.(CH2)2.NH2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	C	M	B(CdAHL)=17.89 K(CdA+HL)=5.53	2004Lba	(35739)1640
H2A is cytidine-5'-monophosphoric acid.									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	C	M	B(CdAL)=11.30 K(CdA+L)=8.87 B(CdAHL)=18.14 K(CdA+HL)=5.75	2003Lba	(35740)1641
A is cytidine. B(CdAH2L)=25.42, K(CdA+H2L)=3.82.									

Cd++	ISE non-aq		25°C	100%	C	H	K1=8.46 B2=17.18	2001CGd	(35741)1642
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4. By calorimetry: DH(K1)=-65.3, DH(B2)=-137.2 kJ mol-1.									

Cd++	ISE R4N.X		25°C	0.10M	C	H	K1=8.3 B2=13.70	2001CGd	(35742)1643
Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4. DH(K1)=-41 kJ mol-1.									

Cd++	gl	KNO3	20°C	0.10M	U		K1=7.68 B2=13.34 B3=16.48 B(CdH2L2)=26.67	1999Lba	(35743)1644
------	----	------	------	-------	---	--	---	---------	-------------

Cd++ gl NaClO4 25°C 0.20M M M K1=8.42 1996VBa (35744)1645
 B(Cd(ala)L)=12.87
 B(Cd(phe)L)=12.55
 B(Cd(tyr)L)=12.29
 B(Cd(trp)L)=12.46
 B(Cd(gly-gly)L)=10.71, B(Cd(gly-ala)L)=10.78, B(Cd(en)L)=13.27.

 Cd++ vlt NaClO4 25°C 0.20M M H K1=8.2 1978KKb (35745)1646
 DH1=-42.3 kJ mol-1

 Cd++ gl KNO3 25°C 0.10M U K1=7.9 B2=13.50 1973AHc (35746)1647
 K(Cd+HL)=4.0

 Cd++ gl NaNO3 25°C 0.50M U M B(CdLA)=13.59
 H2A=pyridine-2,6-dicarboxylic acid

 Cd++ ISE R4N.X 25°C 1.00M U M K1=8.05 B2=13.84 1969ESb (35748)1649
 B(CdLA)=13.59
 H2A=dipicolinic acid. Background salt: NH4NO3

 Cd++ vlt alc/w 25°C 20% U I K1=11.0 B2=13.49 1969MIc (35749)1650
 B3=15.25
 Medium: 0-93.5% EtOH, 0.1 M LiNO3. 40%, K1=11.6, B2=13.7, B3=16.08
 93.5%, B2=15.70, B3=18.30

 Cd++ gl NaNO3 25°C 0.50M U M K1=8.05 B2=13.84 1968SPa (35750)1651
 B(CdL(en))=12.54

 Cd++ gl NaNO3 25°C 0.50M U M K1=8.05 B2=13.84 1967SPb (35751)1652
 B(CdLA)=12.54

 Cd++ vlt oth/un 25°C 0.10M U B2=14.8 1950DLA (35752)1653

 Cd++ gl KCl 20°C 0.10M U K1=8.45 B2=13.85 1950PSa (35753)1654

C4H14N2O6P2 H2L EDDPO CAS 1733-49-9 (2435)
 1,2-Diaminoethane-N,N'-bis(methylenephosphonic) acid; (H2O3P.CH2.NH.CH2)2

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

 Cd++ gl oth/un 25°C 0.10M U K1=10.9 1972AUa (35860)1655
 K(Cd+HL)=5.8
 K(Cd+H2L)=3.85

C5H3N2O4Br H2L 5-Bromoortotic CAS 15018-62-9 (3629)
 1,2,3,6-Tetrahydro-2,6-dioxo-5-bromo-4-pyrimidinecarboxylic acid;

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

Cd++ gl R4N.X 25°C 0.10M U K1=2.43 1964TTa (35959)1656
Medium: Me4NBr

C5H3N2O4I H2L 5-Iodoorotic CAS 17687-22-8 (3630)
1,2,3,6-Tetrahydro-2,6-dioxo-5-iodo-4-pyrimidinecarboxylic acid;

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

Cd++ gl R4N.X 25°C 0.10M U K1=2.90 1964TTa (35966)1657
Medium: Me4NBr

C5H3N3O6 H2L 5-Nitroorotic CAS 17687-24-0 (3615)
1,2,3,6-Tetrahydro-2,6-dioxo-5-nitro-4-pyrimidinecarboxylic acid;

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

Cd++ gl KCl 25°C 0.10M U K1=1.91 1961TDa (35974)1658

C5H4NBr L CAS 626-55-1 (3617)
3-Bromopyridine; C5H4N.Br

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

Cd++ ISE KNO3 25°C 0.30M U K1=0.64 1967NAc (35993)1659

C5H4NBr L CAS 1120-87-2 (8780)
4-Bromopyridine;

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

Cd++ gl NaNO3 25°C 0.50M C K1=1.14 2002KSb (36000)1660

C5H4NCl L CAS 626-60-8 (322)
3-Chloropyridine; C5H4N.Cl

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

Cd++ gl NaNO3 25°C 0.50M C K1=0.93 2002KSb (36018)1661

C5H4N2O4 H2L Orotic acid CAS 65-86-1 (624)
1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid;

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

Cd++ gl R4N.X 25°C 0.10M U K1=5.87 1967TKc (36103)1662
Medium: Me4NBr

C5H4N2O4 H2L Isoorotic acid CAS 23945-44-0 (3616)
1,2,3,6-Tetrahydro-2,6-dioxo-5-pyrimidinecarboxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	U				1961TDb (36126)	1663

K(Cd+HL)=2.02

C5H4N4O		HL		Hypoxanthine				CAS 68-94-0	(1174)	
---------	--	----	--	--------------	--	--	--	-------------	--------	--

6-Hydroxypurine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=10.20 K(H-1L+Cd)=10.20	1984PBe (36182)	1664

Cd++	gl	NaClO4	25°C	0.10M	U	TIH		K1=4.44 B2= 8.32	1979RPa (36183)	1665
------	----	--------	------	-------	---	-----	--	------------------	-----------------	------

Medium: KClO4. DH(K1)=1.76 kJ mol⁻¹, DS(K1)=91 J K⁻¹ mol⁻¹; DH(K2)=-89.5, DS(K2)=-226. Data for 35 and 45 C. At 35 C, I=0.0 M: K1=5.00, K2=4.35.

C5H4N4O2		HL		Xanthine				CAS 69-89-6	(4305)	
----------	--	----	--	----------	--	--	--	-------------	--------	--

Xanthine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=2.63	1991KMa (36204)	1666

C5H4O2S		HL		2-Thenoic acid				CAS 527-72-0	(2312)	
---------	--	----	--	----------------	--	--	--	--------------	--------	--

Thiophene-2-carboxylic acid; C4H3S.CO0H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	cal	NaNO3	25°C	1.00M	U	H			1979ARa (36249)	1667

DH(CdL)=0.38 kJ mol⁻¹; DS=40.3.

Cd++	gl	NaClO4	30°C	0.20M	U	T H		K1=2.10	1976SKc (36250)	1668
------	----	--------	------	-------	---	-----	--	---------	-----------------	------

At 40 C:K1=2.12; 50 C:2.14

C5H5N		L		Pyridine				CAS 110-86-1	(31)	
-------	--	---	--	----------	--	--	--	--------------	------	--

Pyridine, Azine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.50M	C			K1=1.51	2002KSb (36528)	1669

Cd++	dis non-aq		25°C	100%	U	H			1993SSe (36529)	1670
------	------------	--	------	------	---	---	--	--	-----------------	------

DH(CdCl2A2+2L=CdCl2L2+2A)=-6 kJ mol⁻¹, DH(CdBr2A2+2L=CdBr2L2+2A)=9 kJ mol⁻¹
A=trioctylphosphine oxide. Medium: 1,2-dichloroethane.

Cd++	dis non-aq		25°C	100%	U				1989STa (36530)	1671
------	------------	--	------	------	---	--	--	--	-----------------	------

K(CdCl2A2+L=CdCl2AL+A)=0.19
K(CdCl2AL+L=CdCl2L2+A)=-0.59
K(CdBr2A2+L=CdBr2AL+A)=0.10

$$K(\text{CdBr}_2\text{AL}+\text{L}=\text{CdBr}_2\text{L}_2+\text{A})=-0.89$$

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++	EMF	NaCl04	25°C	2.0M	C	K1=1.42	B2= 2.78	1985GNa (36531)	1672
						B3=2.91			
						B4=3.88			

Method: Cd amalgam electrode.

Cd++	dis	NaCl	25°C	0.10M	U			1984SMa (36532)	1673
								K(R2CdCl4+L=RCdCl3L+RCl)	=-0.56
								K(RCdCl3L+L=CdCl2L2+RCl)	=-3.20

R = N(Bu)4

Cd++	sp	non-aq	21°C	100%	U	M	K1=3.37	1983LKa (36533)	1674
								K(CdA+L)	=3.37

Medium: C2H4Cl2. A=tetraphenylporphin

Cd++	gl	KNO3	25°C	0.10M	C	I	K1=1.20	B2=2.13	1979EBa (36534)	1675
								B3=2.14		

In 0.5 M KNO3, K1=1.42, B2=1.96, B3=2.40

Cd++	cal	non-aq	30°C	100%	U	M		1976AGa (36535)	1676
								K(CdI2+Py)	=2.92
								K(CdI2Py+Py)	=2.32

Medium: MeCN

Cd++	cal	non-aq	30°C	100%	U	H		1976AGc (36536)	1677
								K(CdA2+L)	=2.40
								K(CdB2+L)	=1.88
								K(CdC2+L)	=2.84

In benzene. A=diethyldithiocarbamate; DH=-51 kJ mol⁻¹, DS=-122. B=dibutyldithiocarbamate; DH=-31; DS=-66. C=dibenzoyldithiocarbamate; DH=-40; DS=-78

Cd++	gl	alc/w	30°C	25%	U		K1=1.22	B2=1.91	1975VUa (36537)	1678
								B3=2.23		

Cd++	gl	KNO3	25°C	0.10M	U		K1=1.35	1974ILa (36538)	1679
------	----	------	------	-------	---	--	---------	-----------------	------

Cd++	gl	KNO3	25°C	0.50M	U		K1=1.30	B2=2.14	1973BJa (36539)	1680
								K3=0.36		
								K4=-0.2		

Cd++	ISE	KNO3	25°C	0.10M	U		K1=1.28	B2=2.02	1971BLb (36540)	1681
------	-----	------	------	-------	---	--	---------	---------	-----------------	------

Cd++	ISE	oth/un	25°C	0.10M	U		K1=1.37	B2=2.12	1971HBa (36541)	1682
								B3=2.32		

Range of ionic strength 0.1-0.3

Cd++	gl	NaCl04	35°C	0.20M	U		K1=2.24	B2=4.03	1971SBb (36542)	1683
------	----	--------	------	-------	---	--	---------	---------	-----------------	------

Cd++ gl R4N.X 20°C 1.0M U K1=1.51 B2=2.46 1967FLc (36543)1684
 B(Cd(NH3)L)=3.25
 B(Cd(NH3)2L)=5.60
 B(Cd(NH3)L2)=4.04
 B(Cd(NH3)3L)=6.69

Distribution also used. Medium: NH4NO3. B4=2.50, B(Cd(NH3)2L2)=5.90
 B(Cd(NH3)L3)=4.08

 Cd++ vlt mixed 30°C 40% U I K1=0.85 B2=1.94 1967GSa (36544)1685
 Medium: 0-80% v/v N(CH3)2CHO, 0.1 M KNO3
 K1(0%)=1.36, K1(80%)=1.00, B2(0%)=1.86, B2(80%)=1.39, B3(0%)=1.90

 Cd++ ISE KNO3 25°C 0.30M U K1=1.04 1967NAc (36545)1686

 Cd++ vlt KNO3 30°C 0.50M U K1=1.10 B2=1.48 1967SSk (36546)1687
 B3=1.91
 B4=1.95
 B5=1.48

 Cd++ EMF alc/w 25°C 75% U I 1965NAb (36547)1688
 B4=2.09
 Medium: 75% EtOH, 0.2 M LiNO3. B4=2.64(0%), 2.37(25%), 2.10(50%)

 Cd++ vlt KNO3 30°C 0.10M U K1=1.36 B2=1.86 1965SGa (36548)1689
 B3=1.90

 Cd++ ISE NaClO4 30°C 0.10M U K1=1.26 B2=1.95 1961DKa (36549)1690
 B3=2.29

 Cd++ vlt oth/un ? ? U K1=1.40 B2=1.95 1956MOb (36550)1691
 B3=2.27

 Cd++ gl oth/un 25°C 0.50M U K1=1.27 B2=2.1 1950BJa (36551)1692
 Medium: 0.5 M C5H5N.HNO3

 Cd++ vlt KNO3 25°C 0.10M U B2=2.14 1950DLa (36552)1693
 B4=2.50

 Cd++ ISE oth/un 18°C 0.40M U B2=1.7? 1904EUb (36553)1694

 C5H5NO L 3-Pyridinol CAS 109-00-2 (1475)
 3-Hydroxypyridine; C5H4N.OH

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

 Cd++ gl KNO3 25°C 0.50M U K1=0.81 B2=2.06 1978LRa (36705)1695
 B3=2.20

 C5H5NO2 HL CAS 16867-04-2 (2316)
 2,3-Dihydroxypyridine, 3-Hydroxypyridin-2(1H)-one; C5H3N(OH)2

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 25°C 50% U      K1=5.96  B2=10.74  1970GDa (36775)1696
Medium: 50% dioxan, 0.1 M NaClO4

```

```

*****
C5H5N2O2      CAS 1121-47-7 (6252)
2-Furancarboxaldehyde oxime, 2-Furfuraldoxime; C4H3O.CH:NOH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 20°C 60% U I    K1=4.37      1979GBd (36803)1697
B(CdHL2)=21.46

```

```

*****
C5H5N2Br      L      CAS 1072-97-5 (2630)
5-Bromo-2-aminopyridine; C5H3N(Br)(NH2)
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3 25°C 0.50M C      K1=0.59      2002KSb (36856)1698

```

```

*****
C5H5N3O4      H2L    5-Aminoorotic      CAS 7164-43-4 (3619)
1,2,3,6-Tetrahydro-2,6-dioxo-5-amino-4-pyrimidinecarboxylic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  R4N.X 25°C 0.10M U      K1=4.48      1967TKc (36864)1699
Medium: Me4NBr

```

```

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

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3 25°C 0.10M C      M    K1=8.24      2000SSd (36953)1700

```

```

K(Cd+HL)=4.03
K(Cd+HL+OH)=13.00
K(CdHL+OH)=8.93

```

Also data for ternary complexes.

```

-----
Cd++      gl  NaNO3 25°C 0.10M U      K1=5.60      1996SGa (36954)1701

```

```

-----
Cd++      gl  NaClO4 25°C 0.10M M      1995LWa (36955)1702

```

```

K(Cd+HL)=1.49
K(Cd(atp)+HL)=1.36

```

```

*****
C5H5O2F3      HL      CAS 367-57-7 (163)
1,1,1-Trifluoropentane-2,4-dione; CF3.CO.CH2.CO.CH3
-----

```

```

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

```

Cd++ dis NaClO4 25°C 1.0M U I K1=2.08 B2=3.20 1977SIb (37045)1703

C5H6N2 L CAS 1072-63-5 (8709)

1-Vinylimidazole;

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

Cd++ gl KNO3 25°C 0.50M U K1=2.30 B2= 4.12 1989LKc (37085)1704
B3=5.46
B4=6.34
B5=6.74

C5H6N2 L 2-Aminopyridine CAS 504-29-0 (1478)

2-Aminoazine, 2-Pyridylamine; C5H4N.NH2

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

Cd++ gl NaNO3 25°C 0.50M C K1=0.93 2002KSb (37118)1705

Cd++ gl KNO3 25°C 0.10M U TIH K1=2.54 B2=5.24 1976BBE (37119)1706

C5H6N2 L 3-Aminopyridine CAS 462-08-8 (1477)

3-Aminoazine, 3-Pyridylamine; C5H4N.NH2

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

Cd++ gl KNO3 25°C 0.10M C I K1=1.61 B2=2.13 1979EBa (37158)1707
B3=3.31

In 0.5 M KNO3, K1=1.60, B2=2.48, B3=3.19

Cd++ gl KNO3 25°C 0.50M U K1=1.50 B2=2.60 1978LRa (37159)1708
B3=3.30
B4=3.64

Cd++ gl oth/un 30°C 0.10M U K1=1.52 B2=2.19 1963DKa (37160)1709
K3=0.69

C5H6N2 L 4-Aminopyridine CAS 504-24-5 (1356)

4-Aminoazine, 4-Pyridylamine; C5H4N.NH2

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

Cd++ gl KNO3 25°C 0.10M C I K1=2.29 B2=3.61 1979EBa (37174)1710
B3=5.28

In 0.5 M KNO3, K1=2.02, B2=3.94, B3=5.50

C5H6N2O L CAS 16867-03-1 (2903)

2-Amino-3-hydroxypyridine; C5H3N(OH)(NH2)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	30°C	0.10M	C	M		K1=6.04 B2=10.90	1991STb	(37187)1711

Method: polarography. Medium pH 9.5.
Ternary complexes with oxalate and succinate.

Cd++	vlt	KNO3	30°C	0.10M	C			K1=6.04 B2=10.90	1991STb	(37188)1712
------	-----	------	------	-------	---	--	--	------------------	---------	-------------

Method: polarography, medium pH 9.5.

Cd++	gl	KNO3	20°C	0.10M	U	TIH		K1=3.19 B2= 6.16	1982KMe	(37189)1713
------	----	------	------	-------	---	-----	--	------------------	---------	-------------

Data for 0.05-0.20 M KNO3. At I=0, K1=3.48, K2=3.18.
Data for 30 and 40 C. DH(B2)=-35.1 kJ mol⁻¹, DS(B2)=-1.1 J K⁻¹ mol⁻¹.

C5H6N2OS HL (4336)
5-Methyl-2-thiouracil (5-methyl-4-hydroxy-2-mercaptopyrimidine);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U	T		K1=4.25 B2=7.96	1970Gwa	(37214)1714

I=0.006 M. K1(34.9 C)=4.19, K1(45 C)=4.04; K2(34.9 C)=3.87, K2(45 C)=3.54

C5H6N2OS HL CAS 3581-30-4 (4337)
6-Methyl-2-thiouracil (6-methyl-4-hydroxy-2-mercaptopyrimidine);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	26°C	0.01M	U	T		K1=4.13 B2=7.70	1970Gwa	(37218)1715

I=0.006 M. K1(35 C)=4.33, K1(45 C)=4.22; K2(35 C)=3.92, K2(45 C)=3.81

C5H6O4 H2L Citraconic acid CAS 498-23-7 (3021)
Citraconic acid; CH3.C(COOH):CH.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	30°C	1.5M	U	T H		K1=1.24 B2= 1.48	1981PBb	(37355)1716

B3=2.72
Method: polarography. At 40C, K1=1.0, B2=1.54, B3=3.0.
DH(B3)=49.8 kJ mol⁻¹, DS(B3)=218 J K⁻¹ mol⁻¹.

Cd++	vlt	NaClO4	25°C	1.50M	U	M		K1=1.93 B2=2.56	1979JAb	(37356)1717
------	-----	--------	------	-------	---	---	--	-----------------	---------	-------------

B3=3.72
B(CdLA)=2.07
B(CdL2A)=3.64
B(CdLA2)=4.02
H2A=itaconic acid

Cd++	gl	oth/un	25°C	0.10M	U			K1=2.2	1960YYa	(37357)1718
------	----	--------	------	-------	---	--	--	--------	---------	-------------

C5H6O4 H2L Itaconic acid CAS 97-65-4 (398)
Methylenesuccinic acid; HOOC.CH2.C(:CH2).COOH


```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      vlt NaClO4 25°C 1.50M U          K1=1.3   B2=2.20   1979JAb (37408)1719
          B3=3.25
-----

```

```

-----
Cd++      vlt KNO3   25°C 2.50M U    M   K1=1.73   B2=3.36   1979JBb (37409)1720
          B3=3.20
          B(CdL(SCN))=2.30
          B(CdL(SCN)2)=2.74
-----

```

```

-----
Cd++      gl  oth/un 25°C 0.10M U          K1=2.3           1960YYa (37410)1721
*****
C5H6O7          H3L                      (8107)
Carboxymethyltartronic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KCl    25°C 0.10M C          K1=4.49           1984MMg (37486)1722
          K(CdL+H)=2.67
-----

```

```

*****
C5H7N04S2      H3L                      CAS 36061-59-3 (1953)
Bis(carboxymethyl)dithiocarbamic acid; (HOOC.CH2)2.N.CSSH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      EMF KNO3   22°C 1.00M U          K1=7.49   B2=13.85  1970TPb (37554)1723
-----

```

```

-----
Cd++      dis KNO3   20°C 0.10M U          B2=11.2           1967HMc (37555)1724
*****
C5H7NS          L                      CAS 541-58-2 (1421)
2,4-Dimethylthiazole; C3HNS(CH3)2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.50M U          K1=0.54   B2=1.20   1982GKa (37568)1725
-----

```

```

*****
C5H7N3          L                      CAS 42166-50-7 (4291)
2-Pyridylhydrazine; C5H4N.NH.NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      EMF NaNO3   20°C 0.10M U          K1=4.36   B2=8.18   1971ANa (37581)1726
-----

```

```

*****
C5H8N2          L                      CAS 1759-84-0 (173)
1,2-Dimethylimidazole; C3H2N2(CH3)2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.50M U          K1=2.48   B2=4.30   1981LKa (37614)1727
-----

```

 C5H8N2 L CAS 1072-62-4 (929)
 2-Ethylimidazole; C3H3N2.C2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=2.17 B2=3.67 B3=4.55	1982LKb	(37660)1728

 C5H8N2 L Di-Me-Pyrazole CAS 67-51-6 (369)
 3,5-Dimethyl-1,2-diazole; C3H2N2(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	alc/w	25°C	100%	U			K1=1.15 B2=0.6? B3=1.88	1965CRb	(37675)1729

Medium: MeOH(?), 0.1 M KNO3

 C5H8N2O L (1429)
 5-Amino-3,4-dimethylisoxazole; C3NO(CH3)2(NH2)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.50M	U			K1=0.90	1983Gwa	(37685)1730

Constant determined by means of the competitive potentiometric method using Ag(I) as the auxilliary cation, silver electrode applied.

 C5H8N2O2 L DiMe-Hydantoin CAS 77-71-4 (6091)
 5,5-Dimethyl-2,4-imidazolidinedione, 5,5-Dimethylhydantoin

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaNO3	25°C	0.50M	U			K1=4.49 B2=6.63	1988EAb	(37689)1731

 C5H8O2 HL Acetylacetone CAS 123-54-6 (164)
 Pentane-2,4-dione; CH3.CO.CH2.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	oth	NaClO4	25°C	0.10M	C	I R		K1=3.48 B2=6.26	1982SLc	(37878)1732

IUPAC evaluation. I=0 corr.: K1=3.83, B2=6.6

Cd++	gl	diox/w	24°C	50%	U			K1=4.0	1979ACa	(37879)1733
------	----	--------	------	-----	---	--	--	--------	---------	-------------

Cd++	dis	NaClO4	25°C	1.0M	U	I		K1=3.94 B2=6.68	1977SIb	(37880)1734
------	-----	--------	------	------	---	---	--	--------------------	---------	-------------

Cd++	vlt	KNO3	30°C	0.70M	U			B2=6.12	1962SSa	(37881)1735
------	-----	------	------	-------	---	--	--	---------	---------	-------------

Cd++	gl	alc/w	30°C	100%	M			K1=2.7	1960DRa	(37882)1736
------	----	-------	------	------	---	--	--	--------	---------	-------------

Medium: EtOH: 0.025 M NaClO4

Cd++ dis oth/un ? 0.10M U K1=4.0 B2=7.80 1960STb (37883)1737

Cd++ gl diox/w 30°C 75% U K1=7.79 B2=14.54 1959MFa (37884)1738

Cd++ gl oth/un 20°C 0.0 U T H K1=3.84 B2=6.72 1955IFb (37885)1739
DH(K1)=-5.9 kJ mol⁻¹, DS=54. 10 C: K1=33.88, K2=2.90; 30 C: K1=3.83, K2=2.76
40 C: K1=3.77, K2=2.47

Cd++ gl diox/w 30°C 75% U K1=7.64 B2=14.06 1953UFb (37886)1740

C5H8O2S HL CAS 19418-11-2 (408)

Tetrahydrothiophene-2-carboxylic acid; C4H7S.CO0H

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

Cd++ EMF diox/w 25°C 50% U K1=2.68 1978SPa (38158)1741

C5H8O3 HL Laevulinic acid CAS 123-76-2 (941)

4-Ketopentanoic acid; CH3.CO.CH2.CH2.CO0H

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

Cd++ vlt NaClO4 30°C 1.00M U K1=1.04 B2=1.62 1970GPc (38168)1742

C5H8O4 H2L CAS 595-46-0 (1144)

Dimethylmalonic acid; HOOC.C(CH3)2.CO0H

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.54 19700Va (38204)1743

Cd++ gl NaClO4 25°C 0.10M U K1=2.54 19680Va (38205)1744
K(Cd+HL)=1.30

C5H8O4 H2L CAS 601-75-2 (479)

Ethylpropanedioic acid; HOOC.CH(C2H5).CO0H

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.59 19680Va (38232)1745
K(Cd+HL)=1.28

C5H8O4 H2L Glutaric acid CAS 110-94-1 (420)

Pentanedioic acid; HOOC.CH2.CH2.CH2.CO0H

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

Cd++ gl oth/un 25°C 0.10M U K1=2.0 1960YYa (38303)1746

C5H8O4S H2L CAS 36303-63-6 (988)
3-Thiahexane-1,6-dioic acid; HOOC.CH2.S.CH2.CH2.COOH

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

Cd++ gl KNO3 25°C 0.10M C K1=3.09 1975LPa (38380)1747
K(Cd+HL)=1.05

C5H8O4S2 H2L CAS 2068-24-8 (908)
2,2'-(Methylenebis(thio))bis-ethanoic acid; HOOC.CH2.S.CH2.S.CH2.COOH

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

Cd++ gl oth/un 20°C ? U T K1=2.82 B2=5.45 1984SPa (38394)1748
Temperatures: 30,40 C. DH(B2)=-76.4 kJ mol⁻¹, DS=-139.4 J K⁻¹ mol⁻¹

C5H8O4S2 H3L CAS 73618-85-6 (7720)
meso-2,3-Dimercaptobutanedioc acid monomethyl ester;

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

Cd++ gl KCl 25°C 0.10M C 2002CDc (38401)1749
B(Cd4H3L4)=80.29
B(Cd4H2L4)=75.36
B(Cd4HL4)=68.96
B(Cd4L4)=58.45
B(Cd2H4L4)=70.88, B(Cd2H3L4)=65.14, B(Cd2H2L4)=58.44, B(Cd2HL4)=50.45.

C5H9NO2 H2L CAS 69651-97-4 (1164)
2-Amino-(2-allyl)ethanoic acid; H2N.CH(CH2.CH:CH2)COOH

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

Cd++ gl KNO3 25°C 0.10M C K1=3.772 B2=7.13 1975IPb (38466)1750

C5H9NO2 HL Proline CAS 147-85-3 (44)
Pyrrolidine-2-carboxylic acid; C4H8N.COOH

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

Cd++ gl KNO3 35°C 0.10M C K1=4.24 B2= 7.58 1998ZWa (38588)1751
B(CdH-1L2)=-1.56

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime

Cd++ vlt KNO3 25°C 1.0M C M K1=4.70 B2= 8.72 1997KKb (38589)1752
B3=11.80
B(CdAL)=5.20
B(CdA2L)=9.32
B(CdAL2)=12.32

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl NaClO4 25°C 0.70M U K1=4.274 B2= 7.94 1985SCc (38590)1753
By differential pulse polarography, K1=4.26, B2=7.71

Cd++ vlt KNO3 30°C 0.50M U K1=4.45 B2= 7.40 1980PKc (38591)1754
B3=10.18

Method: polarography.

Cd++ gl KCl 20°C 0.10M U K1=4.40 1970GVa (38592)1755

Cd++ gl oth/un 17°C 0.01M U B2=8.0 1952PEa (38593)1756
Medium: CdSO4

Cd++ gl oth/un 20°C 0.03M U B2=8.7 1950ALa (38594)1757

C5H9NO3 HL Hydroxyproline CAS 51-35-4 (416)
4-Hydroxy-2-pyrrolidinecarboxylic acid; C4H7N(OH)(COOH)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	1.0M	C	M		K1=4.62 B2= 8.21 B3=11.11 B(CdAL)=4.80 B(CdA2L)=8.61 B(CdAL2)=11.72	1997KKb (38713)	1758

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl none 25°C 0.0 U K1=4.26 B2=7.81 1978HAa (38714)1759

Cd++ gl oth/un 17°C 0.01M U B2=8.2 1952PEa (38715)1760
Medium: CdSO4

C5H9NO3S H2L Thiopronin CAS 1953-02-2 (2162)
N-2-Mercaptopropanoyl-glycine; CH3.CH(SH).CO.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.20M	C			K1=6.83 B2=12.78 B3=16.70 B(Cd3L4)=33.01	1990KUa (38779)	1761

Cd++ gl KNO3 25°C 0.20M C K1=6.76 B2=12.66 1986SVa (38780)1762
B3=16.46
B(Cd3L4)=32.83

Cd++ gl NaCl 37°C 0.15M C 1985FWa (38781)1763
B(Cd2HL2)=18.347
B(Cd2L2)=14.946
B(Cd2L3)=20.834

B(Cd2L4)=25.432

B3=14.988

Cd++ gl KNO3 22°C 0.10M U K1=7.06 B2=13.11 1975SHa (38782)1764

C5H9NO3S H2L N-Acetyl-Cys CAS 616-91-1 (1187)
N-Acetylcysteine; CH3.CO.NH.CH(CH2.SH)COOH

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

Cd++ gl KNO3 25°C 0.20M C K1=7.05 B2=13.49 1990KUa (38812)1765
B3=17.41
B(Cd3L4)=35.53

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (38813)1766
K(Cd(nta)+L)=5.03

Cd++ gl KNO3 25°C 0.20M C K1=7.05 B2=13.49 1986SVa (38814)1767
B3=17.41
B(Cd3L4)=35.53

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

Cd++ gl KNO3 25°C 0.10M C M K1=4.45 2003AHa (39006)1768
K(CdL+A)=3.39

HA is 3-amino-5-mercapto-1,2,4-triazole.

Cd++ gl NaNO3 25°C 0.10M C M K1=3.78 2000KAb (39007)1769
K(CdA+L)=3.98

H2A=Dipicolinic acid.

Cd++ vlt KNO3 25°C 0.10M C M K1=4.30 B2= 7.45 1998JKb (39008)1770
B3=10.06
B(CdAL)=4.70
B(CdA2L)=7.60
B(CdAL2)=10.30

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.30 B2= 7.45 1993DKb (39009)1771
B3=10.06
B(CdAL)=6.62
B(CdA2L)=8.82
B(CdAL2)=9.21

Method: polarography. Medium pH 8.5. HA is formic acid.
K(H+L)=9.67.

Cd++ nmr NaNO3 25°C 0.40M U M 1990KRa (39010)1772

K(Cd(NTA)+L)=2.79

Cd++ ISE NaClO4 25°C 1.00M C K1=4.02 B2=6.97 1989BFa (39011)1773
B3=8.83
B(CdH2L)=14.40
B(CdHL)=10.85
B(CdH2L3)=31.62

Cd++ vlt KNO3 30°C 1.0M C M K1=4.30 B2= 7.40 1986KCb (39012)1774
B3=10.10
B(CuAL)=5.20
B(CuA2L)=5.41
B(CuAL2)=7.98

Method: polarography. Medium pH 8.5. H2A is ascorbic acid.
By potentiometry, K(H+L)=9.42

Cd++ gl NaCl 37°C 0.15M U K1=3.60 B2=6.21 1985CFb (39013)1775
B(CdH-1L)=-6.38

Cd++ vlt KNO3 30°C 0.10M C K1=4.30 B2= 7.40 1985KCb (39014)1776
B3=10.10

Method: polarography. Medium pH 8.9.

Cd++ gl NaClO4 25°C 0.70M U K1=3.83 B2= 6.83 1985SCc (39015)1777

Cd++ vlt KNO3 30°C 1.0M C M K1=4.48 B2= 8.02 1984CGc (39016)1778
B3=10.33
B(CdAL)=9.55
B(CdAL2)=12.00
B(CdA2L)=12.59

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ vlt NaClO4 25°C 1.0M C K1=4.00 B2= 7.00 1984DOb (39017)1779
B3=10.17

Method: polarography. Medium pH 6.8.

Cd++ gl NaClO4 20°C 0.70M C K1=3.863 B2= 7.13 1984SCb (39018)1780

Cd++ gl KNO3 25°C 0.10M M K1=4.15 B2= 7.14 1981GVa (39019)1781

Cd++ vlt NaClO4 25°C 0.10M C K1=1.58 B2= 2.57 1980SKd (39020)1782

Method: polarography.

Cd++ gl KNO3 25°C 0.10M U K1=4.0 B2=7.1 1975HLc (39021)1783

Cd++ gl KCl 25°C 0.10M U T K1=3.72 B2=6.73 1969MGg (39022)1784
K1(5 C)=3.89, K1(4 5C)=3.42; B2(5 C)=7.04, B2(45 C)=6.06

Cd++ vlt KCl 25°C 0.10M U B2=6.30 1969MGg (39023)1785

Cd++ oth KNO3 20°C 0.10M U K1=5.3 B2=8.20 1964JOa (39024)1786
Method: paper electrophoresis

Cd++ vlt KNO3 30°C 1.0M U M B2=7.10 1964RSe (39025)1787
B3=8.28
B(CdL2(OH))=7.97
B(CdL2(NH3)2)=9.01

Cd++ vlt oth/un 30°C 1.0M U B2=9.75 1962RSb (39026)1788

Cd++ gl oth/un 25°C 0.02M U K1=4.78 B2=7.56 1954REa (39027)1789

Cd++ vlt oth/un 25°C 1.0M U K1=4.72 B2=7.44 1954REa (39028)1790

Cd++ gl KCl 25°C 0.10M U K1=3.9 1953LMa (39029)1791

Cd++ gl oth/un 15°C .005M U B2=7.9 1953PEa (39030)1792
Medium: 0.005 CdSO4

C5H9NO4 H2L CAS 1948-48-7 (3038)
3-Carboxymethylaminopropanoic acid; HOOC.CH2.NH.CH2.CH2.COOH

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

Cd++ gl KCl 30°C 0.10M U K1=4.51 B2=7.67 1952CMb (39155)1793

C5H9NO4 H2L MIDA CAS 4408-64-4 (190)
N-Methyliminodiethanoic acid; CH3.N(CH2.COOH)2

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

Cd++ gl NaClO4 25°C 0.50M U K1=6.42 B2=11.83 1992GLa (39219)1794
B(CdH-1L)=-2.8

Cd++ gl KNO3 25°C 0.10M U T M 1973IVa (39220)1795

K(CdL+Pro)=3.95

K(15 C)=4.05, K(37 C)=3.86, K(55 C)=3.66

Cd++ gl KNO3 25°C 0.10M U T M 1972IVa (39221)1796

K(CdL+A)=3.41

K(CdL+A): (15 C)=3.50, (37 C)=3.27, (55 C)=3.15. HA=cycloserine

Cd++ cal KNO3 20°C 0.10M U H 1965ANa (39222)1797

DH(K1)=-7.9 kJ mol⁻¹, DS=102.4 J K⁻¹ mol⁻¹, DH(B2)=-30.4, DS=135.9

Cd++ gl KNO3 20°C 0.10M U K1=6.77 B2=12.52 1955SAa (39223)1798

C5H9N3 L Histamine CAS 51-45-6 (103)
4(5)-(2'-Aminoethyl)imidazole; C3H3N2.CH2.CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	C	H R		K1=4.78 B2=8.05 B(CdHL)=11.53	1997SJa	(39508)1799
IUPAC evaluation. DH(K1)=-26.8 kJ mol ⁻¹ , DH(K2)=-24.4, DH(CuHL)=-71.1										

Cd++	gl	NaNO3	25°C	0.10M	U			K1=4.80 B2= 8.25	1993GAa	(39509)1800
Cd++	cal	KNO3	25°C	0.10M	U	H		K1=4.76 B2=7.91 B3=9.93 B(CdHL)=11.53	1981AAc	(39510)1801
DH(K1)=-26.8, DH(B2)=-51.2, DH(B3)=-51.0; DH(CdHL)=-71.1 kJ mol ⁻¹										

Cd++	vlt	KNO3	45°C	0.10M	U	T H		B2=8.30	1964ARa	(39511)1802
B2=9.60(0 C),8.57(25 C); DH(B2)=-49.3 kJ mol ⁻¹ , DS=4.2 J K ⁻¹ mol ⁻¹										

Cd++	gl	oth/un	20°C	0.0	U	T H		K1=4.83 B2=8.23	1960NFa	(39512)1803
10 C: K1=5.12, K2=3.60; 30 C: 5.08, 3.76; 40 C 5.01, 3.63 DH(K1)=-31.3 kJ mol ⁻¹ , DS=-12.6; DH(K20)=-18.41, DS=-29.3										

Cd++	gl	oth/un	20°C	.005M	U			B2=8.0	1953PEa	(39513)1804
Medium: 0.005 CdSO4										

C5H9N3O4S	H2L	CAS 16907-58-7	(2106)
Thiosemicarbazone-diethanoic acid; H2N.CS.NH.N(CH2.COOH)2			

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=7.4 K(Cd+HL)=6.1	1967GNb	(39561)1805

C5H9N3O5	H2L	CAS 4438-86-2	(3622)
Semicarbazone-1,1-diethanoic acid; H2N.CO.NH.N(CH2.COOH)2			

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=5.7 K(Cd+HL)=4.1	1967GNb	(39591)1806

C5H9N3S	HL	(1822)
2-Mercaptohistamine;		

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	U			K1=8.09 B2=14.17	1977STc	(39605)1807

C5H10N07P	H4L	PMIDA						CAS 5994-61-6	(2433)	
N-(Phosphonomethyl)iminodiethanoic acid; H2O3P.CH2.N(CH2.COOH)2										

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

Cd++ gl KNO3 25°C 0.10M C K1=10.95 2000SDa (39656)1808
K(CdL+H)=5.44
K(CdHL+H)=3.0
K(CdL+OH)=2.5

Cd++ gl KNO3 30°C 0.10M U T HM K1=12.63 B2=22.28 1997RPc (39657)1809
K(CdL+gly)=3.33
K(CdL+ala)=3.47
K(CdL+A)=7.35
K(Cd(phen)+L)=12.38

Data for 20-50 C. DH(K1)=-34 kJ mol⁻¹, DS(K1)=130 J K⁻¹ mol⁻¹, DH(K2)=-25,
DS(K2)=100. H2A is catechol. K(Cd(bpy)+L)=11.98, K(Cd(ida)+L)=11.32.

Cd++ gl KCl 30°C 0.10M U K1=8.5 19580Mb (39658)1810

C5H10N2O2 HL (3039)
Dimethylglyoxime O-methyl ether; CH3.C(:N.OH).C(:N.O.CH3).CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=6.3 B2=11.5	1954CFa	(39705)1811

C5H10N2O2		HL						CAS 2762-32-5	(3041)	
Piperazine-2-carboxylic acid; C4H9N2.COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	22°C	0.10M	U			K1=3.6	1960REb	(39721)1812

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	1.0M	U	M		K1=4.00 B2= 7.04	1989KNb	(39797)1813
K3=1.87										
B(CdAL)=5.79										
B(CdA2L)=7.71										
B(CdAL2)=8.07										
Method: polarography. Medium: pH 8.5. HA is formic acid.										

Cd++	vlt	KNO3	25°C	1.0M	C	M		K1=4.00 B2= 7.04	1989NKc	(39798)1814
B3=8.91										
B(CdAL)=5.92										
B(CdAL2)=8.26										
K(CdAL+A)=1.98										
Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=7.90.										

Cd++ gl NaCl 37°C 0.15M U T K1=3.168 B2=5.694 1985CFb (39799)1815

B(CdH-1L)=-6.58

Cd++ gl NaCl04 25°C 0.70M U K1=3.62 B2= 6.66 1985SCc (39800)1816

Cd++ vlt KNO3 30°C 1.00M C M K1=4.48 B2=8.02 1982CGc (39801)1817
B3=10.33

Cd++ gl NaCl04 25°C 3.00M U K1=3.83 B2=6.95 1981MAa (39802)1818

Cd++ ISE NaCl04 25°C 3.00M C T K1=4.099 B2=7.664 1974WWa (39803)1819
B3=9.999

Cd++ gl NaCl04 25°C 0.10M U K1=3.47 B2=6.33 1973TSb (39804)1820

Cd++ gl oth/un 15°C .005M U B2=7.4 1953PEa (39805)1821
Medium: 0.005 CdSO4

C5H10N2O3 HL Ala-Gly CAS 687-69-4 (55)
Alanyl-glycine; H2N.CH(CH3).CO.NH.CH2.COOH

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

Cd++ gl KCl 20°C 0.20M U K1=2.39 B2=4.08 1982RRd (39884)1822

Cd++ gl oth/un 25°C 0.01M U K1=3.0 1954PEa (39885)1823

C5H10N2O3 HL Gly-DL-Ala CAS 926-77-2 (66)
Glycyl-DL-alanine; H2N.CH2.CO.NH.CH(CH3).COOH

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

Cd++ gl KCl 20°C 0.20M U K1=2.87 B2=5.25 1982RRd (39932)1824

Cd++ gl oth/un 25°C 0.01M U K1=3.6 1954PEa (39933)1825

C5H10N2O3 HL Gly-Ala CAS 3695-73-6 (56)
Glycyl-alanine; H2N.CH2.CO.NH.CH(CH3).COOH

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

Cd++ gl NaCl04 25°C 0.20M M K1=2.99 1996VBa (39998)1826

Cd++ gl NaCl04 25°C 0.20M M M K1=2.990 B2= 5.53 1994VBb (39999)1827
B(Cd(Ala)L)=7.435
B(Cd(Phe)L)=7.262
B(Cd(Tyr)L)=7.316
B(Cd(Trp)L)=7.456

B(Cd(His)L)=8.932.

Cd++ gl NaCl04 25°C 0.20M M K1=2.990 B2= 5.53 1994VBc (40000)1828

C5H10N2O3S H2L Cys-Gly CAS 19246-18-5 (2006)
Cysteiny1-glycine; H2N.CH(CH2.SH)CO.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.20M	U			K1=9.84 B2=17.36	1990CRa	(40060)1829

Cd++	gl	KNO3	25°C	0.20M	C			K1=9.84 B2=17.36	1990KUa	(40061)1830
------	----	------	------	-------	---	--	--	------------------	---------	-------------

C5H10N2O4 HL Gly-Ser CAS 7361-43-5 (281)
Glycyl-serine; H2N.CH2.CO.NH.CH(CH2.OH).COOH

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

Cd++	gl	oth/un	25°C	0.01M	U			K1=1.5	1954PEa	(40099)1831
------	----	--------	------	-------	---	--	--	--------	---------	-------------

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

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

Cd++	vlt	KNO3	25°C	0.40M	C			B3=14.04	1984HSb	(40154)1832
------	-----	------	------	-------	---	--	--	----------	---------	-------------

Method: polarography.

Cd++	dis	KNO3	25°C	1.00M	U			B2=10.2	1983SAa	(40155)1833
------	-----	------	------	-------	---	--	--	---------	---------	-------------

C5H10O5S2 HL CAS 6791-12-4 (8866)
Isobutoxydithiomethanoic acid;

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

Cd++	vlt	KNO3	25°C	0.40M	C			B3=14.04	1984HSb	(40167)1834
------	-----	------	------	-------	---	--	--	----------	---------	-------------

Method: polarography.

C5H10O2 HL IsoValeric acid CAS 503-74-2 (1311)
3-Methyl-butanoic acid, Isovaleric acid; (CH3)2CH.CH2.COOH

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

Cd++	ISE	NaClO4	25°C	3.0M	U			K1=1.34 B2=2.30 B3=2.50 B4=2.00	1943LEa	(40184)1835
------	-----	--------	------	------	---	--	--	---------------------------------------	---------	-------------

C5H10O2S HL CAS 7244-82-8 (3042)
3-Ethylthiopropoic acid; CH3.CH2.S.CH2.CH2.COOH

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

Cd++ gl diox/w 30°C 50% U K1=3.17 B2=6.72 1956IFa (40240)1836

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

Cd++ vlt KNO3 RT 1.0M C K1=5.07 B2= 5.51 1978PSc (40439)1837
B3=5.65
B4=6.42

Method: polarography.

C5H11NO2 HL Valine CAS 72-18-4 (43)
2-Amino-3-methylbutanoic acid; H2N.CH(CH3)2COOH

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

Cd++ gl KNO3 35°C 0.10M C M K1=3.82 B2= 6.93 1998ZWa (40655)1838
B(CdH-1L2)=-1.98
B(CdH-2L2)=-11.32

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime

Cd++ gl NaClO4 25°C 0.20M U T M K1=3.91 B2= 7.13 1993PPa (40656)1839
K(CdA+L)=3.88

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ vlt NaClO4 25°C 1.0M C K1=3.61 B2= 7.11 1992RAF (40657)1840
B3=9.18
K(Cd+HL)=0.84
K(Cd+2HL)=1.38
K(Cd+3HL)=2.18

Method: polarography. K(Cd+HL+L)=4.63, K(Cd+HL+2L)=7.23, K(Cd+2HL+L)=5.08

Cd++ gl KNO3 25°C 0.10M C K1=3.69 B2=6.86 1990BBa (40658)1841
Using cyclic voltammetry: B2=6.78, B3=8.83

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (40659)1842
K(Cd(nta)+L)=2.52

Cd++ vlt KNO3 25°C 1.0M U M K1=4.11 B2= 7.21 1989KNb (40660)1843
K3=1.95
B(CdAL)=5.96
B(CdA2L)=8.00
B(CdAL2)=8.37

Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.11 B2= 7.21 1989NKc (40661)1844
B3=9.16

B(CdAL)=6.09
B(CdAL2)=8.56
K(CdAL+A)=2.10

Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=8.19.

Cd++ gl KNO3 35°C 0.20M U M K1=3.91 B2=7.23 1989RVa (40662)1845
K(CdA+L)=3.47

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 27°C 0.20M U M K1=3.91 B2= 7.13 1988PPc (40663)1846
K(CdA+L)=3.88

A is 2,2'-dipyridylamine.

Cd++ gl NaClO4 20°C 0.70M U K1=3.68 B2= 7.00 1985SCc (40664)1847
By differential pulse polarography, K1=3.67, B2=6.99

Cd++ vlt KNO3 30°C 1.0M C M K1=3.95 B2= 6.81 1984CGc (40665)1848
B3=8.90
B(CdAL)=8.85
B(CdAL2)=10.99
B(CdA2L)=12.12

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl oth/un 30°C 0.20M U M K1=3.91 1984JOb (40666)1849
K(Cd(bpy)+L)=3.81

Medium: not stated.

Cd++ gl NaClO4 20°C 0.70M C K1=3.706 B2= 6.81 1984SCb (40667)1850
By DPP: K1=3.67, B2=6.99.

Cd++ vlt KNO3 30°C 1.00M C M T K1=3.95 B2=6.81 1982CGc (40668)1851
B3=8.90

Cd++ gl oth/un 25°C 3.00M U M K1=3.72 B2=7.01 1982MOB (40669)1852
B(CdAL)=7.31

Medium: LiClO4. HA=2-aminohexanoic acid

Cd++ vlt KNO3 30°C 0.30M U M K1=4.32 B2=6.78 1981APa (40670)1853
B3=8.67
B(CdLA2)=7.11
B(CdL2A)=8.18
B(CdLA)=5.90

H2A=oxalic acid

Cd++ oth oth/un 25°C 0.50M U T K1=3.46 B2=6.46 1967RPd (40671)1854
Method: optical rotation.

Cd++ vlt KNO3 30°C 1.0M U M T B2=6.66 1964RSe (40672)1855
B3=8.48
B(CdL2(OH))=8.35

B(CdL2(CO3))=7.45
 B(CdL2(NH3)4)=8.75

Cd++	vlt	oth/un	30°C	1.0M	U					1962RSb (40673)1856	
										B3=8.60	
Cd++	ISE	oth/un	25°C	4.0M	U	T	K1=3.80	B2=7.13		1958PQa (40674)1857	
Cd++	gl	oth/un	25°C	0.02M	U		K1=4.30	B2=7.49		1954REa (40675)1858	
Also quoted: K1=4.70, K2=3.70											
Cd++	gl	oth/un	20°C	0.01M	U			B2=6.7		1952PEa (40676)1859	
Medium: CdSO4											
Cd++	gl	oth/un	20°C	0.01M	U		K1=8.60			1950ALa (40677)1860	
Cd++	gl	oth/un	25°C	0.01M	U		K1=4.57	B2=8.24		1949MMa (40678)1861	

C5H11NO2 HL Nor-Valine CAS 760-78-1 (689)											
2-Aminopentanoic acid; CH3.CH2.CH2.CH(NH2).COOH											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C	M		K1=4.15		2000KAb (40822)1862	
H2A=Dipicolinic acid.											
Cd++	gl	NaClO4	25°C	3.00M	U			K1=4.04	B2=7.39	1981MAa (40823)1863	
Cd++	gl	KNO3	25°C	0.10M	C	T		K1=3.73	B2=7.03	1975IPb (40824)1864	
Cd++	gl	oth/un	25°C	0.02M	U	I		K1=4.29	B2=7.49	1954REa (40825)1865	
By polarography, I=1.0: K1=4.58, K2=2.66											
Cd++	gl	oth/un	20°C	0.00	U			B2=6.6		1952PEa (40826)1866	
Medium: 0.0005 CdSO4											

C5H11NO2 HL DL-Valine CAS 516-06-3 (186)											
DL-2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2).COOH											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values		Reference	ExptNo
Cd++	gl	KNO3	37°C	0.15M	C	M		K1=3.70	B2=6.62	1990KDa (40889)1867	
B(CdH-1L)=-5.07											
Ternary complex with imidazole (A): B(CdAL)=6.35											
Cd++	vlt	KNO3	35°C	0.50M	C	M		K1=3.65	B2= 6.01	1990KKd (40890)1868	
B3=8.06											
B(Cd(bpy)L)=6.98											
B(Cd(bpy)2L)=9.21											

B(Cd(bpy)L2)=9.33

Method: polarography. Medium pH 7.0-10.5

Cd++ gl KNO3 25°C 0.10M U K1=3.7 B2=6.9 1975HLc (40891)1869

C5H11NO2S HL Methionine CAS 63-68-3 (42)
2-Amino-4-(methylthio)butanoic acid; H2N.CH(CH2.CH2.S.CH3)COOH

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

Cd++ vlt KNO3 25°C 1.0M C M K1=3.69 B2= 7.00 1997KKb (41052)1870
B3=9.23
B(CdAL)=4.43
B(CdA2L)=7.39
B(CdAL2)=10.21

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl KNO3 25°C 0.10M C I R K1=3.69 B2=7.00 1995BEa (41053)1871
IUPAC evaluation. I=0.2 M(Tentative): K1=3.65, K2=6.76, K3=9.08

Cd++ gl NaClO4 25°C 0.20M U T M K1=4.30 B2= 8.34 1993PPa (41054)1872
K(CdA+L)=3.85

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl KNO3 35°C 0.20M U M K1=3.63 B2=6.51 1989RVa (41055)1873
K(CdA+L)=3.09

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 27°C 0.20M U M K1=4.30 B2= 8.34 1988PPc (41056)1874
K(CdA+L)=3.85

A is 2,2'-dipyridylamine.

Cd++ gl KNO3 25°C 0.20M C K1=3.65 B2= 6.76 1986SVa (41057)1875
B3=9.08

Cd++ gl oth/un 30°C 0.20M U M K1=4.30 1984JOb (41058)1876
K(Cd(bpy)+L)=3.89

Medium: not stated.

Cd++ vlt KNO3 25°C 1.00M U M 1984MRa (41059)1877
B(CdL(en))=9.52
B(CdL2(en))=10.8
B(CdL(en)2)=11.7

Cd++ vlt KNO3 RT 1.0M C M K1=3.80 B2= 6.35 1982RBA (41060)1878
B3=8.19
B(Cd(gly)L)=6.00
B(Cd(gly)L2)=9.10
B(Cd(gly)2L)=9.50

Method: polarography.

Cd++ gl KNO3 25°C 0.10M C T K1=3.70 B2=6.97 1975IPb (41061)1879

Cd++ oth KNO3 20°C 0.10M U K1=5.4 B2=8.70 1964J0a (41062)1880
K3=2.1

Method: paper electrophoresis

Cd++ gl KNO3 25°C 0.10M U K1=3.67 B2=7.03 1964LMa (41063)1881

Cd++ gl KNO3 25°C 0.15M U K1=3.88 B2=6.99 1955LMa (41064)1882

Cd++ gl oth/un 18°C .005M U B2=7.1 1953PEa (41065)1883

Medium: 0.005 CdSO4

C5H11NO2S HL CAS 93964-73-9 (3633)

Cysteine ethyl ester; H2N.CH(CH2.SH).CO.OCH2.CH3

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

Cd++ EMF oth/un ? dil U K1=8.40 B2=18.12 1967YTa (41145)1884

C5H11NO2S H2L D-Penicillamine CAS 52-67-5 (1323)

D-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

Cd++ gl KCl 25°C 0.20M C M K1=11.50 B2=19.26 1992UKa (41176)1885
B(Cd2L3)=49.77

K1=13.08; B2=18.39 from polarographic measurements. B(CdAL)=16.64 (17.10
17.10 from polarography). H2A=oxalic acid

Cd++ oth NaClO4 35°C ? U K1=9.30 B2=16.61 1991TSb (41177)1886

Method: Electrophoresis

Cd++ gl KNO3 25°C 0.20M C K1=11.53 B2=19.64 1990KUa (41178)1887
B(Cd3L4)=50.22

Data also by polarography (0.2 M KNO3): B1=11.92, B2=19.30

Cd++ gl KNO3 25°C 0.10M C K1=11.51 B2=19.52 1983SLc (41179)1888
K(Cd+HL+L)=15.94
B3=22.35

Cd++ gl KNO3 25°C 0.20M C B2=20.27 1982AKb (41180)1889

B(CdHL)=16.39
B(Cd3H2L4)=62.74
B(Cd5H6L8)=133.8
B(Cd4H5L7)=113.4

B(Cd3H4L6)=93.54, B(Cd2H3L5)=71.04, B(CdH-1L2)=9.74

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

Cd++ oth NaCl04 35°C 0.10M C M K1=9.35 B2=16.70 1993SGb (41242)1890
K(Cd(nta)+L)=5.18

Method: electrophoresis. Medium: pH 8.5

Cd++ gl NaCl 37°C 0.15M U K1=10.742 B2=17.68 1984JSb (41243)1891
B(CdHL2)=24.67

Cd++ gl NaCl 37°C 0.15M U K1=10.742 B2=17.684 1982HFa (41244)1892
B(CdHL2)=24.671

Cd++ gl NaCl04 25°C 3.00M C K1=12.68 B2=20.68 1976CWa (41245)1893
B(CdHL)=17.15
B(CdHL2)=28.31
B(CdH2L2)=34.53
B(CdH-1L2)=9.14

Cd++ vlt oth/un 25°C 0.20M U 1966SPa (41246)1894
B3=13.08

Medium: phosphate buffer

Cd++ gl KNO3 25°C 0.10M U K1=10.88 1964LMa (41247)1895

Cd++ gl KNO3 25°C 0.15M U K1=11.4 B2=18.50 1962KRa (41248)1896

C5H11NO2S HL CAS 2629-59-6 (2461)

S-Ethyl-L-cysteine; H2N.CH(CH2.S.C2H5).COOH

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

Cd++ gl NaCl04 25°C 1.00M C K1=3.76 B2=7.44 1981CPb (41292)1897
B(CdH-1L)=-2.62

C5H11NS2 HL CAS 147-84-2 (2126)

Diethyldithiocarbamic acid; (CH3.CH2)2N.CSSH

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

Cd++ EMF non-aq 25°C 100% U B2=12.5 1987USa (41339)1898
Medium: DMF, 0.1 M LiCl04

Cd++ vlt mixed RT 50% C 1986HSd (41340)1899
B3=19.83

Medium: 50% v/v DMF/H2O. Method: polarography.

Cd++ ISE non-aq 25°C 100% U K1=8.4 B2=16.7 1984LSb (41341)1900
Medium: DMSO, 0.1 M NaCl04; Ag-electrode. In MeOH: K1=9.1, B2=17.1

Cd++ sp non-aq ? 100% U M 1968SRg (41342)1901
K(Cd(HA)2+2HL=CdL2+2H2A)=2.53

Medium: CCl4. H2A=dithizone.

Cd++ sp alc/w 25°C 75% U K1=14.9 B2=28.80 1956JAa (41343)1902

Medium: 75% EtOH, 0.01 M NaOH. 23-27 C

C5H1108P H2L Ribose-5-phosph CAS 4300-28-1 (2756)

Ribose-5-phosphoric acid, Ribofuranoside 5 Phosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M C K1=2.49 1988MSa (41416)1903

C5H12N2 L CAS 171868-16-9 (7832)

cis-1,2-Cyclopentanediamine;

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

Cd++ gl KCl 25°C 0.10M C K1=5.20 B2= 9.52 2001KSa (41457)1904

C5H12N2O L (3046)

Sarcosine dimethylamide; CH3.NH.CH2.CO.N(CH3)2

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

Cd++ gl oth/un 25°C 0.01M U K1=2.48 B2=4.45 1959DLb (41473)1905

C5H12N2O L TMU CAS 632-22-4 (146)

Tetramethylurea; (CH3)2N.CO.N(CH3)2

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

Cd++ cal oth/un 25°C ? U H 1980ACa (41477)1906

CdX2(s)+2L=CdL2X2(s) DH = -44.7 X = Cl, DH = -32.1 X = Br, DH = -63 X=I

C5H12N2O2 HL Ornithine CAS 1069-31-4 (46)

2,5-Diaminopentanoic acid; H2N.CH2.CH2.CH2.CH(NH2)COOH

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

Cd++ vlt KNO3 25°C 0.10M C M 1998JKb (41559)1907

K(Cd+HL)=3.77

K(Cd+2HL)=6.61

K(Cd+3HL)=9.42

K(Cd+A+HL)=4.16

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

K(Cd+2A+HL)=6.825, K(Cd+A+2HL)=9.525

Cd++ EMF NaCl 25°C 1.00M C K1=4.91 B2=6.56 1993BFa (41560)1908
 B(CdHL)=13.60
 B(CdH2L)=19.8
 B(CdHL2)=17.40
 B(CdH2L2)=26.1

Method: Cd/Hg amalgam electrode and glass electrode

 Cd++ vlt KNO3 25°C 1.0M C M 1993DKb (41561)1909
 K(Cd+HL)=3.77
 K(Cd+2HL)=6.61
 K(Cd+3HL)=9.42
 K(Cd+A+HL)=5.81

Method: polarography. Medium pH 8.5. B(Cd+2A+HL)=7.80,
 B(Cd+A+2HL)=8.10. HA is formic acid. K(H+HL)=8.98.

 Cd++ gl oth/un 25°C 0.02M U I K1=3.70 B2=6.40 1954REa (41562)1910
 By polarography, I=1.0 M: K1=3.41, K2=2.41

 Cd++ gl oth/un 20°C .005M U B2=6.1 1953PEa (41563)1911
 Medium: 0.005 CdSO4

 C5H12N2S L CAS 105-55-5 (2379)
 1,3-Diethylthiourea; C2H5.NH.CS.NH.C2H5

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

Cd++	ISE	oth/un	25°C	0.10M	U		K1=1.62 B2=2.81	1975FFb (41621)	1912
							B3=3.74		
							B4=4.90		
							B5=5.60		
							B6=6.84		

Medium: 40% EtOH/H2O. In 80% EtOH/H2O, K1=1.70; B2=2.93; B3=4.41; B4=5.19

 C5H12N2S L CAS 1576-32-1 (1518)
 N-Butylthiourea; C4H9.NH.CS.NH2

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

Cd++	vlt	NaCl04	25°C	0.10M	U		K1=1.9 B2=2.7	1988Cma (41629)	1913
							B3=3.6		
							B4=4.8		

Cd++	ISE	oth/un	25°C	0.10M	U		K1=1.60 B2=2.90	1975FFb (41630)	1914
							B3=3.88		
							B4=4.95		
							B5=5.78		
							B6=6.99		

Medium: 40% EtOH/H2O. In 80% EtOH/H2O, K1=1.76; B2=3.12; B3=4.38; B4=5.20;
 B5=6.20; B6=7.15

C5H1203S4 H3L CAS 19872-38-9 (4331)
2,3-Dimercaptopropylthioethanesulfonic acid;

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

Cd++ EMF KNO3 20°C 0.10M U K1=16.20 B2=24.29 1968PRc (41652)1915

C5H1204S3 H3L CAS 19872-36-7 (4332)
2,3-Dimercaptopropanoxyethanesulfonic acid; HS.CH2.CH(SH).CH2.O.CH2.CH2.HSO3

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

Cd++ EMF KNO3 20°C 0.10M U K1=16.25 B2=25.16 1968PRc (41666)1916

C5H1205S4 H3L CAS 35617-14-2 (4333)
2,3-Dimercaptopropanesulfonethanesulfonic acid; HS.CH2.CH(SH).CH2.SO2.CH2CH2.HSO3

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

Cd++ EMF KNO3 20°C 0.10M U K1=15.89 B2=24.36 1968PRc (41697)1917

C5H13NS HL (5870)
3-(Dimethylamino)-1-propanethiol; (Me)2N.CH2.CH2.CH2.SH

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

Cd++ gl alc/w 25°C 10% C 1989GVb (41782)1918

B(3,6,6)=117.33
B(4,9,9)=176.41
B(4,10,10)=194.12
B(3,8,8)=153.65

3.0M NaClO4, 10% MeOH. B(1,4,4)=68.01, B(3,6,5)=111.9, B(3,6,2)=85.19
B(4,9,8)=170.38, B(4,10,9)=186.38, B(1,4,2)=47.2 B(p,q,r)=pCd+qL+rH=CdpLqHr

C5H13N3 L (1866)
cis-3,5-Diaminopiperidine; C5H9N(NH2)2

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

Cd++ gl KCl 25°C 0.10M C I K1=6.71 B2=11.72 2000PSb (41793)1919
In 0.10 M KNO3: K1=6.87, K2=5.46

C5H14N2 (4303)
N,N,N'-Trimethyl-1,2-diaminoethane; L

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

Cd++ ISE non-aq 25°C 100% C H K1=4.13 B2= 6.39 2001CGd (41886)1920
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.
By calorimetry: DH(K1)=-39.0, DH(B2)=-78.6 kJ mol-1.

Cd++ ISE R4N.X 25°C 0.10M C K1=4.56 B2= 6.73 2001CGd (41887)1921
B3=7.7

Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4.

Cd++ ISE KNO3 25°C 1.00M U K1=4.56 B2=6.73 1973CPd (41888)1922
B3=7.75
B(CdHL)=0.83
B(CdL(OH)2)=10.83

C5H15N3 L CAS 15995-42-3 (153)
1,1,1-Tris(aminomethyl)ethane; (H2N.CH2)3C.CH3

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

Cd++ gl KNO3 20°C 0.10M U K1=5.81 1970KAd (41973)1923
K(Cd+HL)=3.22
K(Cd+H2L)=1.53

C5H15N3 L CAS 13531-52-7 (738)
1,4,8-triazaoctane, N-(2-Aminoethyl)propane-1,3-diamine; H2NCH2CH2NHCH2CH2CH2NH2

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

Cd++ gl KNO3 20°C 0.10M C M 2004Lba (41999)1924
B(CdAHL)=18.54
K(CdA+HL)=5.74
B(CdAH3L)=32.18
K(CdA+H3L)=3.98

H2A is cytidine-5'-monophosphoric acid.

Cd++ gl KNO3 20°C 0.10M C M 2004Lba (42000)1925
B(CdAH2L)=27.99
K(CdA+H2L)=4.81
B(CdAH3L)=35.29
K(CdA+H3L)=3.59

H2A is cytidine-5'-monophosphoric acid.

Cd++ gl KNO3 20°C 0.10M C M 2003Lba (42001)1926
B(CdAL)=10.54
K(CdA+L)=8.11

A is cytidine.

Cd++ gl KNO3 25°C 0.10M U K1=7.8 B2=11.5 1973AHc (42002)1927
K(Cd+HL)=4.1

C5H16N4 L (3614)
Tetrakis(aminomethyl)methane; C(CH2.NH2)4

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

Cd++ gl KNO3 25°C 0.10M U K1=5.7 1968ZBa (42012)1928
K(Cd+HL)=3.7

C6HOC15 HL CAS 87-86-5 (506)
Pentachlorophenol; HO.C6.Cl5

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

Cd++ ISE none 25°C 0.0 M K1=3.1 1997DFc (42025)1929
Method: Cd ion selective electrode. Self medium. K1 calculated for I=0.
By spectrophotometry, K1=2.6.

C6H3N3O7 HL Picric acid CAS 88-89-1 (593)
2,4,6-Trinitrophenol; HO.C6H2(NO2)3

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

Cd++ sp oth/un 21°C 0.40M U K1=1.40 1955BKa (42086)1930
Medium:0.2-0.6(some EtOH)

C6H3OC13 HL CAS 88-06-2 (508)
2,4,6-Trichlorophenol; HO.C6H2(Cl)3

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

Cd++ ISE none 25°C 0.0 M K1=2.4 1997DFc (42162)1931
Method: Cd ion selective electrode. Self medium. K1 calculated for I=0.
By spectrophotometry, K1=2.6.

C6H4NO2Cl HL CAS 39825-15-5 (3709)
4-Chloro-2-nitrosophenol; HO.C6H3.(2-N:O)(4-Cl)

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

Cd++ gl diox/w 25°C 50% U K1=4.03 1961SHa (42177)1932
Medium: 50% dioxan, 0.1 M KNO3

C6H4N2 L CAS 100-48-1 (321)
4-Cyanopyridine; C5H4N.CN

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

Cd++ dis non-aq 25°C 100% U 1989STa (42192)1933
K(CdBr2A2+L=CdBr2AL+A)=-1.43
K(CdBr2AL+L=CdBr2L2+A)=-2.8
Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++ dis NaCl 25°C 0.10M U 1984SMa (42193)1934
K(R2CdCl4+L=RCdCl3L+RCl)=-1.50

$$K(RCdC13L+L=CdC12L2+RC1)<-4.5$$

R = N(Bu)4

C6H4N2O5 HL CAS 50-28-5 (505)

2,4-Dinitrophenol; HO.C6H3(NO2)2

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

Cd++ sp oth/un 21°C 0.40M U K1=0.92 1955BKa (42221)1935

Medium:0.2-0.6(some EtOH)

C6H4N4O HL CAS 900-47-0 (3083)

4-Hydroxypteridine;

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

Cd++ gl oth/un 20°C 0.01M U K1=3.4 1953ALa (42275)1936

C6H4O4 H2L CAS 615-94-1 (1280)

2,5-Dihydroxy-1,4-benzoquinone;

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

Cd++ gl KCl 30°C 25% M TIH K1=4.06 1991GDe (42302)1937

Medium: 35% Dioxan/H2O, 0.1 M NaClO4. Other solvents and backgroundf concs.

C6H5NO2 HL Picolinic acid CAS 98-98-6 (391)

2-Pyridine-carboxylic acid; C5H4N.COOH

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

Cd++ vlt KNO3 25°C 0.10M U I K1=4.34 B2=8.01 1998CLa (42474)1938

B3=10.79

Method:differential pulse polarography. At 0.5 M, K1=4.29, B2=7.89,

B3=10.49.

Cd++ vlt NaNO3 25°C 2.0M C M K1=1.20 B2= 2.00 1984KSc (42475)1939

B3=3.42

B(CdAL)=4.1

B(CdA2L)=4.84

B(CdAL2)=4.95

Method: polarography. Medium pH 8.0. H2A is oxalic acid.

Cd++ gl NaClO4 25°C 3.00M U M K1=4.47 B2=8.17 1982MOa (42476)1940

B(CdL(Gly))=8.88

Cd++ vlt KNO3 25°C 0.32M U M 1973Mwa (42477)1941

B3=10.3

B(CdL2A)=10.0

B(CdLA2)=9.5

A=imidazole

Cd++ gl NaNO3 25°C 0.50M U K1=4.18 B2=7.61 1968SPa (42478)1942
B3=10.14

Cd++ vlt diox/w 25°C 50% U 1966WRb (42479)1943
B4=3.52

Medium: 50% dioxan, 0.1 M KNO3

Cd++ gl NaNO3 20°C 0.10M U K1=4.55 B2=8.16 1960ANb (42480)1944
K3=2.60

Cd++ gl oth/un 25°C 0.0 U K1=4.79 B2=8.25 1957LUa (42481)1945

Cd++ gl NaNO3 25°C 0.10M U K1=4.36 B2=7.54 1957SYa (42482)1946

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

Cd++ vlt KNO3 25°C 0.10M C K1=1.40 B2= 2.20 1998JKb (42658)1947
Method: polarography. Medium pH 8.50.

Cd++ vlt NaClO4 25°C 0.80M C K1=1.73 B2=4.45 1981SZa (42659)1948
K3=2.75

Cd++ vlt NaClO4 30°C 1.0M C K1=1.30 B2= 1.60 1978BPc (42660)1949
B3=3.94

Method: polarography.

C6H5NO4 H2L 3-Nitrocatechol CAS 6665-98-1 (2685)
1,2-Dihydroxy-3-nitrobenzene; O2N.C6H3(OH)2

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

Cd++ gl KCl 25°C 0.10M M K1=6.73 B2=11.87 1986HAb (42852)1950
B(CdH-1L)=1.07

C6H5NO4 H2L 4-Nitrocatechol CAS 3316-09-4 (890)
1,2-Dihydroxy-4-nitrobenzene; O2N.C6H3(OH)2

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

Cd++ gl KNO3 35°C 0.20M U M K1=5.96 B2=10.76 1989RVa (42903)1951
K(CdA+L)=5.57

A=bis(imidazol-2-yl)methane

Cd++ gl KCl 25°C 0.10M M K1=6.50 B2=11.28 1984HAD (42904)1952

C6H5N3 L Azabenzimidazol CAS 273-21-2 (2033)
4-Azabenzimidazole, 1H-Imidazo[4,5-b]pyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=1.69 B3=3.78 B4=4.16	1981LMb	(42987)1953

C6H5N5 L (1699)
3-(Pyrazin-2-yl)-1,2,4-triazole; C4H3N2.C2H2N3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	25°C	0.10M	C	I		K1=4.90 B(CdLOH)=8.84 B(CdL2OH)=11.84 B(CdL(OH)2)=11.95 B(CdL2(OH)2)=14.90	1988GBb	(42999)1954

Data also for methanol solution: K1=12.54, B2=13.30, B(CdLOH)=14.00,
B(CdL2OH)=16.45, B(CdL(OH)2)=15.25, B(CdL2(OH)2)=18.70

C6H5O4Br L CAS 40838-32-2 (1084)
6-Bromo-5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	NaCl	25°C	0.10M	C			K1=3.61	1976KIc	(43104)1955

C6H5O4Cl HL Chlorokojic aci (3086)
3-Chloro-5-hydroxy-2-hydroxymethyl-4-pyrone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=8.72 B2=16.73	1960KFc	(43126)1956

C6H6NBr L 4-Bromoaniline CAS 106-40-1 (757)
4-Bromoaniline; H2N.C6H4.Br

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.30M	U			K1=-0.49	1964NAe	(43184)1957

C6H6NBr L (8782)
5-Bromo-2-methylpyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.50M	C			K1=0.49	2002KSb	(43191)1958

C6H6NC1 L CAS 10445-91-7 (8781)
4-(Chloromethyl)pyridine;

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

Cd++ gl NaNO3 25°C 0.50M C K1=1.38 2002KSb (43207)1959

C6H6NO6P H2L CAS 330-13-2 (5865)
4-Nitrophenylphosphoric acid; NO2.C6H4.O.PO.(OH)2

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

Cd++ gl NaNO3 25°C 0.10M C K1=2.05 1988MSa (43242)1960

C6H6N2O HL CAS 873-69-8 (1258)
Pyridine-2-aldoxime; C5H4N.CH:NOH

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

Cd++ gl NaCl 25°C 0.10M C 2003SSa (43286)1961

B(0,1,1)=2.022
B(-1,1,1)=-5.26
B(-1,1,2)=-2.97
B(-2,1,2)=-10.933

B(p,q,r): pH+qM+rHL=HpMq(HL)r. B(-2,2,2)=-8.02, B(-3,2,2)=-16.66,
B(-3,1,3)=-18.35.

Cd++ gl KNO3 24°C 0.10M U K1=5.2 B2=9.60 1962BEa (43287)1962

C6H6N2O L Acetamidopyrid. CAS 1452-77-3 (2047)
Pyridine-2-carboxylic acid amide; C5H4N.CO.NH2

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

Cd++ vlt KNO3 25°C 0.20M U M K1=1.8 B2=2.80 1973Mwa (43314)1963

B(CdLA2)=6.7
B(CdLA3)=8.2

A=imidazole

C6H6N2O L Nicotinamide CAS 98-92-0 (1473)
Pyridine-3-carboxylic acid amide, Vitamin PP, C5H4N.CO.NH2

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

Cd++ vlt KNO3 25°C 1.0M C M K1=0.67 B2= 0.76 1983DOb (43337)1964

B(Cd(taa)L)=1.61
B(Cd(taa)L2)=1.68
B(Cd(taa)2L)=1.36

Method: polarography. taa: thioacetamide.

Cd++ EMF NaNO3 25°C 0.50M U K1=0.85 B2=1.08 1977BNb (43338)1965

C6H6N2O2 HL Aminonicotinic CAS 5345-47-1 (903)
2-Aminopyridine-3-carboxylic acid; H2N.C5H4N.CO0H

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

Cd++ gl KNO3 35°C 0.15M U T H K1=2.71 1980SKb (43350)1966
Temperature range is 25-45C. At 35C, DH1=-4.52 kJ mol-1;
DS1=37.19 J mol-1 K-1

Cd++ gl diox/w 35°C 50% U K1=3.03 1980SKb (43351)1967

C6H6N2O2 HL (8281)
3-Hydroxy-2-amidocarboxypyridine, Hydroxypicolinamide;

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

Cd++ gl KNO3 25°C 0.10M C K1=4.77 B2= 9.00 1990ARa (43370)1968

C6H6N2O3 HL CAS 99-57-0 (469)
2-Amino-4-nitrophenol; H2N.C6H3(OH)(NO2)

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

Cd++ gl diox/w 30°C 50% U K1=2.37 1966VMa (43444)1969
Medium: 50% dioxan, 0.1 M NaClO4

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

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

Cd++ gl NaClO4 25°C 0.20M M M K1=8.324 1994VBc (43696)1970
B(Cd(ala)L)=12.394
B(Cd(phe)L)=12.275
B(Cd(tyr)L)=12.402
B(Cd(trp)L)=12.489
B(Cd(gly-gly)L)=10.592, B(Cd(gly-ala)L)=10.656

Cd++ gl KNO3 35°C 0.20M U M K1=7.46 B2=12.26 1989RVa (43697)1971
K(CdA+L)=7.31

A=bis(imidazol-2-yl)methane

Cd++ gl oth/un 25°C 0.10M U M 1975JBc (43698)1972
K(Cd(bpy)+L)=6.28

Cd++ gl NaClO4 30°C 0.20M U M 1974MJa (43699)1973
K(Cd(His)+L)=5.76

Cd++ gl NaClO4 30°C 0.10M U K1=7.70 1966APb (43700)1974

Cd++ vlt oth/un ? ? U K1=10.8 B2=19.05 1957GLc (43701)1975

C6H6O2S HL Thiomaltol CAS 23060-85-7 (4359)
2-Methyl-3-hydroxy-4-thiopyrone;

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

Cd++ gl diox/w ? 75% U K1=12.97 B2=23.45 1973UMa (43911)1976

Medium: 75% v/v dioxan, 0.01 M

C6H6O3 HL Maltol CAS 118-71-8 (2442)
3-Hydroxy-2-methyl-4H-pyran-4-one;

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

Cd++ gl diox/w 30°C 50% U K1=7.44 B2=12.98 1957Cwa (44070)1977

C6H6O3 HL Allomaltol CAS 644-46-2 (2688)
5-Hydroxy-2-methyl-4H-pyran-4-one;

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

Cd++ sp NaCl 25°C 0.10M C K1=4.32 1976KIc (44126)1978

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

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

Cd++ sp KCl 25°C 0.10M C K1=4.09 1987PEa (44179)1979

Cd++ sp NaCl 25°C 0.10M C K1=4.21 B2= 8.48 1976KIc (44180)1980

Cd++ gl diox/w 30°C 75v% U K1=9.81 B2=17.24 1960KFc (44181)1981

Cd++ EMF KCl 21°C 0.10M U K1=4.6 19590Kb (44182)1982

Method: H electrode

Cd++ gl diox/w 30°C 50% U K1=7.00 B2=12.17 1957Cwa (44183)1983

Cd++ gl diox/w 30°C 50% U K1=4.4 B2=7.10 1954BFa (44184)1984

C6H6O8S2 H4L Tiron CAS 149-45-1 (104)
4,5-Dihydroxybenzene-1,3-disulfonic acid; (HO)2.C6H2(SO3H)2

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

Cd++ gl KNO3 25°C 0.10M C M K1=8.76 B2=14.74 19830Za (44389)1985

B(CdH-1L2)=3.35
B(CdL(bpy))=13.49

Cd++ gl NaClO4 25°C 0.50M C M K1=7.68 B2=13.28 1977LMa (44390)1986

C6H6O9 H4L Ditartronic ac (8108)
Di(2-Propane-1,3-dioic acid)ether;

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

Cd++ gl KCl 25°C 0.10M C K1=5.44 1984MMg (44533)1987
K(CdL+H)=3.10

C6H7N L Picoline CAS 109-06-8 (320)
2-Methylpyridine; C5H4N.CH3

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

Cd++ gl NaNO3 25°C 0.50M C K1=0.68 2002KSb (44588)1988

Cd++ dis non-aq 25°C 100% U H 1993SSe (44589)1989
DH(CdCl2A2+2L=CdCl2L2+2A)=-1 kJ mol⁻¹, DH(CdBr2A2+2L=CdBr2L2+2A)=7 kJ mol⁻¹
A=trioctylphosphine oxide. Medium: 1,2-dichloroethane

Cd++ dis non-aq 25°C 100% U 1989STa (44590)1990
K(CdCl2A2+L=CdCl2AL+A)=0.49
K(CdCl2AL+L=CdCl2L2+A)=-1.54
K(CdBr2A2+L=CdBr2AL+A)=0.02
K(CdBr2AL+L=CdBr2L2+A)=-1.46

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++ dis NaCl 25°C 0.10M U 1984SMa (44591)1991
K(R2CdCl4+L=RCdCl3L+RCl)=-0.66
K(RCdCl3L+L=CdCl2L2+RCl)=-3.75

R = N(Bu)4

Cd++ cal non-aq 30°C 100% U H 1976AGc (44592)1992
K(CdA2+L)=1.18

In benzene. A=dibutyldithiocarbamate; DH=-33 kJ mol⁻¹; DS=-87 J K⁻¹ mol⁻¹.

Cd++ gl NaClO4 35°C 0.20M U K1=2.61 B2=4.76 1971SBb (44593)1993

C6H7N L beta-Picoline CAS 108-99-6 (324)
3-Methylpyridine; C5H4N.CH3

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

Cd++ gl NaNO3 25°C 0.50M C K1=1.59 2002KSb (44672)1994

Cd++ dis non-aq 25°C 100% U H 1993SSe (44673)1995

DH(CdCl₂A₂+2L=CdCl₂L₂+2A)=-7 kJ mol⁻¹, DH(CdBr₂A₂+2L=CdBr₂L₂+2A)=5 kJ mol⁻¹
 A=trioctylphosphine oxide. Medium: 1,2-dichloroethane

 Cd++ dis non-aq 25°C 100% U 1989STa (44674)1996
 K(CdCl₂A₂+L=CdCl₂AL+A)=0.55
 K(CdCl₂AL+L=CdCl₂L₂+A)=-0.51
 K(CdBr₂A₂+L=CdBr₂AL+A)=0.40
 K(CdBr₂AL+L=CdBr₂L₂+A)=-0.70

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

 Cd++ vlt NaNO₃ 25°C 2.0M C M K1=1.2 B2= 2.00 1987KSg (44675)1997
 B3=3.42
 B(Cd(succ)L₂)=4.00
 B(Cd(succ)2L)=3.22
 B(Cd(tart)L)=3.10

Method: polarography.

 Cd++ dis NaCl 25°C 0.10M U 1984SMa (44676)1998
 K(R₂CdCl₄+L=RCdCl₃L+RCl)=-0.34
 K(RCdCl₃L+L=CdCl₂L₂+RCl)=-2.98

R = N(Bu)₄

 Cd++ gl KNO₃ 25°C 0.10M C I K1=1.42 B2=2.27 1979EBa (44677)1999
 B3=2.29

In 0.5 M KNO₃, K1=1.54, B2=2.26, B3=2.79

 Cd++ gl KNO₃ 25°C 0.50M U K1=1.62 B2=2.79 1979LRa (44678)2000
 B3=3.57
 B4=3.97

 Cd++ gl NaClO₄ 35°C 0.20M U K1=2.54 B2=4.63 1971SBb (44679)2001

 Cd++ vlt KNO₃ 30°C 0.10M U K1=1.27 B2=2.35 1968GSc (44680)2002

 Cd++ ISE KNO₃ 25°C 0.30M U K1=1.28 1967NAc (44681)2003

 Cd++ ISE NaClO₄ 30°C 0.10M U K1=1.41 B2=2.16 1961DKa (44682)2004
 B3=2.54

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

 Cd++ dis non-aq 25°C 100% U H 1993SSe (44788)2005
 DH(CdCl₂A₂+2L=CdCl₂L₂+2A)=-5 kJ mol⁻¹, DH(CdBr₂A₂+2L=CdBr₂L₂+2A)=5 kJ mol⁻¹
 A=trioctylphosphine oxide. Medium: 1,2-dichloroethane

 Cd++ dis non-aq 25°C 100% U 1989STa (44789)2006
 K(CdCl₂A₂+L=CdCl₂AL+A)=0.61

K(CdCl₂AL+L=CdCl₂L₂+A)=-0.23
K(CdBr₂A₂+L=CdBr₂AL+A)=0.60
K(CdBr₂AL+L=CdBr₂L₂+A)=-0.57

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++ vlt NaNO₃ 25°C 2.0M C M K1=1.30 B2= 2.48 1987KSg (44790)2007
B3=3.28
B(Cd(ox)L)=4.72
B(Cd(ox)2L)=5.24
B(Cd(succ)L)=3.00

Method: polarography. B(Cd(succ)L₂)=3.61, B(Cd(succ)2L)=3.47;
B(Cd(tart)L)=3.0; B(Cd(mal)L)=3.24, B(Cd(mal)L₂)=3.88, B(Cd(mal)2L)=3.81.

Cd++ dis NaCl 25°C 0.10M U 1984SMa (44791)2008
K(R₂CdCl₄+L=RCdCl₃L+RC1)=-0.24
K(RCdCl₃L+L=CdCl₂L₂+RC1)=-2.74

R = N(Bu)₄

Cd++ gl KNO₃ 25°C 0.10M C I K1=1.59 B2=2.40 1979EBa (44792)2009
B1=3.18

In 0.5 M KNO₃, K1=1.60, B2=2.6, B3=3.20

Cd++ gl KNO₃ 25°C 1.00M U K1=1.62 B2=2.79 1979LRa (44793)2010
B3=3.57
B4=3.97

Cd++ cal non-aq 30°C 100% U M 1976AGa (44794)2011
K(CdI₂+L)=3.30
K(CdI₂L+L)=2.60

Medium: MeCN

Cd++ cal non-aq 30°C 100% U H 1976AGc (44795)2012
K(CdA₂+L)=2.23
K(CdB₂+L)=3.40

In benzene. A=dibutyldithiocarbamate; DH=-31 kJ mol⁻¹; DS=-59 J K⁻¹ mol⁻¹.
B=dibenzoyldithiocarbamate; DH=-35; DS=-51.

Cd++ vlt alc/w ? 50% U I K1=1.30 B2=2.80 1972PGc (44796)2013
Medium: 0-75% methanol
K1(0%)=1.70, K1(75%)=1.18, B2(0%)=3.0, B2(75%)=2.35

Cd++ gl NaClO₄ 35°C 0.20M U K1=2.95 B2=5.31 1971SBb (44797)2014

Cd++ vlt KNO₃ 30°C 0.10M U K1=1.52 B2=2.47 1968GSc (44798)2015
B3=2.82

Cd++ ISE NaClO₄ 30°C 0.10M U K1=1.50 B2=2.17 1961DKa (44799)2016
B3=2.97

C6H7N L Aniline CAS 62-53-3 (583)

Aminobenzene, aniline; C6H5.NH2

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       ISE KNO3  25°C 0.30M U          K1=0.10  B2=-0.35  1964NAe (44864)2017
*****
C6H7NO          HL  2-Aminophenol  CAS 95-55-6 (2868)
2-Amino-1-hydroxybenzene; HO.C6H4.NH2
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaCl04 25°C 0.20M M    M    K1=3.764      1994VBc (44919)2018
          B(Cd(ala)L)=7.928
          B(Cd(phe)L)=7.874
          B(Cd(tyr)L)=7.921
          B(Cd(trp)L)=7.979
B(Cd(gly-gly)L)=6.120, B(Cd(gly-ala)L)=6.173
-----
```

```
-----
Cd++       gl  none  20°C 0.0 U          K1=4.3      1959SIb (44920)2019
*****
C6H7NO          L          CAS 586-98-1 (3094)
2-Hydroxymethylpyridine (2-pyridylmethanol); C5H4N.CH2.OH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       vlt NaNO3 20°C 0.50M C          K1=6.6  B2=9.7  1976CPa (44962)2020
          B3=12.0
          K(Cd+HL)=1.7
          K(Cd+2HL)=2.2
          K(Cd+3HL)=3.0
B(CdL(OH))=10.0; B(CdL2(OH))=10.4
-----
```

```
-----
Cd++       gl  KNO3  25°C 0.10M U          K1=<1      1965MTa (44963)2021
*****
C6H7NO          L  Pyridylcarbinol CAS 100-55-0 (2036)
3-(Hydroxymethyl)azine; C5H4N.CH2OH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3  25°C 0.50M U          K1=1.47  B2=2.39  1981LRa (44982)2022
          B3=2.82
*****
C6H7NO          L          CAS 586-95-8 (1476)
4-(Hydroxymethyl)pyridine; C5H4N.CH2OH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3  25°C 0.50M U          K1=1.70  B2=2.92  1987KLb (45007)2023
*****
C6H7NO2        HL          CAS 19365-01-6 (2311)
-----
```


Cd++ vlt diox/w 25°C 50% U H 1966WRb (45337)2031
B3=9.68

Medium: 50% dioxan, 0.1 M KNO3. By calorimetry, DH(B2)=-52.7 kJ mol⁻¹,
DS=8.8 J K⁻¹ mol⁻¹

Cd++ gl KNO3 25°C 0.10M U K1=4.5 1964LMb (45338)2032

Cd++ gl KNO3 25°C 0.10M U K1=4.5 1964LMb (45339)2033

Cd++ gl oth/un 20°C ->0 U T H K1=4.71 B2=8.59 1959GFa (45340)2034
K3=2.50

DH(K1)=-24.6 kJ mol⁻¹, DS=8 J K⁻¹ mol⁻¹; DH(K2)=-25.7, DS=-13. 10 C: K1=4.91,
K2=4.14, K3=2.90; 30 C: 4.59, 3.82; 40 C: 4.48, 3.66, 2.54

C6H8N2 L CAS 2851-95-8 (4349)
2-Methyl-1-vinylimidazole;

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

Cd++ gl KNO3 25°C 0.50M C K1=2.06 B2= 3.46 2000KGa (45374)2035
B3=4.26

C6H8N2O3S HL CAS 20349-92-2 (4399)
d-Tetranorbiotin;

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

Cd++ gl oth/un 25°C 0.01M U T K1=4.37 B2=8.48 1970Gwa (45405)2036
I=0.006. K1(35 C)=4.45, K1(45 C)=4.23, K2(35 C)=4.31, K2(45 C)=4.33

C6H8N2O4 H2L (3100)
Cyanomethyliminodiethanoic acid; NC.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 20°C 0.10M U K1=4.48 B2=8.48 1955SAa (45413)2037

C6H8N3O2I HL (7180)
5-Monoiodo-histidine;

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

Cd++ gl NaNO3 25°C 0.50M C K1=4.49 B2=8.14 1994WCa (45431)2038
B(CdH-1L2)=-0.89
B(CdH-2L2)=-11.46

C6H8N4O2S L CAS 42026-60-8 (8288)
6-Amino-3-methyl-2-(methylthio)-5-nitroso-4(3H)-pyrimidinone;

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

Cd++ gl KCl 25°C 0.1M U IH K1=3.96 B2= 7.66 1984MMh (45441)2039
Data for I=0.01-0.20 M and 25-40 C. At I=0.0 M, K1=4.83, K2=4.90.
DH(K1)=7.5 kJ mol⁻¹, DS(K1)=100.1 J K⁻¹ mol⁻¹; DH(K2)=5.3, DS(K2)=88.3.

C6H8O4 H2L CAS 2583-25-7 (958)
2-Allylpropanedioic acid; HOOC.CH(CH2.CH:CH2).COOH

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

Cd++ gl KNO3 25°C 0.10M C K1=2.32 1975IPa (45462)2040

C6H8O4 H2L CAS 5445-51-2 (69)
Cyclobutane-1,1-dicarboxylic acid; C4H6(COOH)2

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.68 19660Cb (45501)2041
K(Cd+HL)=1.30

C6H8O4Se H2L (3691)
cis-Tetrahydroselephenone-2,5-dicarboxylic acid; C4H6Se(COOH)2

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.7 1968SNa (45527)2042

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

Cd++ vlt KNO3 30°C 1.0M C K1=1.40 B2= 1.85 1986KCb (45614)2043
B3=2.24

Method: polarography. Medium pH 8.5.

Cd++ gl NaClO4 25°C 3.00M U 1971UWa (45615)2044
K(2Cd+HL=Cd2L+H)=-5.52
K(4Cd+4HL=Cd4L4+4H)=-17.16
K(5Cd+4HL=Cd5L40H+5H)=-23.39

Cd++ gl NaClO4 25°C 3.00M U 1971UWa (45616)2045
K(Cd+HL)=0.42
K(3Cd+3HL=Cd3L3+3H)=-13.65
K(3Cd+3HL=Cd3L30H+4H)=-21.14
K(5Cd+6HL=Cd5L6H+5H)=-20.42

K(5Cd+6HL=Cd5L6+6H)=-26.57

Cd++ gl NaClO4 25°C 3.00M U 1971UWa (45617)2046
K(Cd+HL)=0.50

$$K(2Cd+2HL+H)=4.67$$

C6H806S 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

 Cd++ gl KNO3 20°C 0.10M U K1=2.71 1977CAAd (45683)2047
 K(Cd+HL)=1.76

Cd++ gl KNO3 25°C 0.05M M K1=3.90 1975DPb (45684)2048

C6H807 H3L Isocitric acid CAS 1637-73-6 (2527)
 2-Hydroxy-3-carboxypentanedioic acid; HOOC.CH(OH).CH(COOH).CH2.COOH

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

Cd++ ix NaNO3 25°C 0.16M C K1=2.93 1975SCe (45727)2049
 Method: 109Cd ion exchange. Medium: 0.01-0.16 M NaNO3, pH 7.5 (Hepes).
 DL-ligand. At I=0 M, K1=4.39 (4.40 by ISE).

C6H807 H3L Citric acid CAS 77-92-9 (95)
 2-Hydroxypropane-1,2,3-tricarboxylic acid; HOOCCH2.CH(OH)(COOH).CH2COOH

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

Cd++ gl NaClO4 37°C 0.10M U K1=4.12 1992GHa (45956)2050
 Method: coulometric titration

 Cd++ vlt NaNO3 25°C 1M U M K1=2.92 B2=4.20 1991KMd (45957)2051
 B3eff = 4.65

At pH=8

 Cd++ vlt NaNO3 25°C 1.0M C K1=2.92 B2= 4.20 1991KMF (45958)2052
 B3=4.65

Method: differential pulse polarography.

 Cd++ vlt NaClO4 30°C 1.0M C K1=1.95 B2= 3.30 1988GMc (45959)2053
 Method: polarography.

 Cd++ gl NaClO4 30°C 1.0M U K1=3.98 1988GMd (45960)2054

 Cd++ gl KNO3 25°C 0.10M U T H K1=3.71 B2=5.3 1986CRd (45961)2055
 B(CdHL)=7.86
 B(CdH-1L)=-4.2

DH(K1)=8 kJ mol⁻¹, DH(B2)=20; DH(CdHL)=1, DH(CdH-1L))=18. 10 C: K1=3.78,
 B2=5.80, B(CdHL)=8.02, B(CdH-1L)=-4.0. At 45 C: 4.03, 5.97, 8.19, -3.6

 Cd++ vlt NaNO3 25°C 1.0M U M K1=3.00 B2=4.08 1986JAa (45962)2056
 B3=4.47

Additional stability constant estimates: $K_1=3.11$, $B_2=4.08$, $B_3=4.32$, $B(\text{CdLA})=5.89$; $B(\text{CdAL}_2)=6.38$; $B(\text{CdA}_2\text{L})=7.38$; $B(\text{CdA}_2\text{L}_2)=7.08$, A=imidazole

Cd++ gl KNO3 25°C 0.10M C M 1985ADc (45963)2057
 $B(\text{CdMnH-2L}_2)=-5.75$
 $B(\text{CdNiH-2L}_2)=-4.22$
 $B(\text{CdNiH-1L}_2)=3.65$
 $B(\text{CdZnH-2L}_2)=-3.30$

$B(\text{CdZnH-1L}_2)=4.2.$

Cd++ gl NaClO4 25°C 2.0M C K1=2.67 B2=4.46 1984Gwa (45964)2058
 $B(\text{CdHL})=6.7$
 $B(\text{CdH}_2\text{L})=10.1$
 $B(\text{Cd}_2\text{H-2L}_2)=-5.94$
 $B(\text{Cd}_2\text{H-1L}) < 1.5$

Cd++ ISE KNO3 25°C 0.10M U M 1980DAa (45965)2059
 $B(\text{CdHL}(\text{citrate}))=14.85$
 $B(\text{CdL}(\text{citrate}))=8.36$

Cd++ gl KNO3 25°C 0.10M C K1=3.65 1979DAb (45966)2060
 $B(\text{CdH}_2\text{L})=11.22$
 $B(\text{CdHL})=7.80$
 $B(\text{CdH-1L})=-3.81$

Cd++ gl NaClO4 25°C 0.10M U M K1=3.75 1975RMa (45967)2061
 $B(\text{CdL}(\text{Cys}))=10.82$
 $K(\text{Cd+L+HPO}_4)=9.56$

Cd++ dis NaClO4 30°C 1.0M U K1=2.6? B2=3.6? 1965HSc (45968)2062

Cd++ gl NaClO4 20°C 0.10M U K1=3.75 1964COb (45969)2063
 $K(\text{Cd+HL})=2.20$
 $K(\text{Cd+H}_2\text{L})=0.97$

Cd++ vlt oth/un 25°C 0.30M U K1=4.20 1964PCa (45970)2064
 $K(\text{CdL+OH})=5.0$

Cd++ vlt oth/un 20°C 0.10M U K1=4.22 1961ELa (45971)2065
 $K(\text{Cd+H}_2\text{L})=2.28$
 $K(\text{Cd+HL})=2.84$

Cd++ sol oth/un 35°C ? U T H K1=3.2 1959DMb (45972)2066
 $\text{DH}(K_1)=-64 \text{ kJ mol}^{-1}$, $\text{DS}=-146$. $K_1=2.9(45 \text{ C})$

Cd++ gl oth/un 25°C 0.15M U K1=3.98 1959LLa (45973)2067
 $K(\text{Cd+HL})=2.28$

Cd++ gl KNO3 25°C 2.0M U K1=3.38 1958MSb (45974)2068
 $K(\text{Cd+H-1L})=6.23$

Cd++	ISE	oth/un	25°C	->0	U	K1=5.36	1958TFb (45975)2069
Cd++	gl	KNO3	33°C	0.25M	U	K(Cd+H3L=CdHL+2H)=-6.2 K(CdL+H)=4.8 K(CdH-1L+H)=8.3	1957PPa (45976)2070
Cd++	gl	oth/un	33°C	0.05M	U	K1=1.97 K(Cd+HL)=1.28 K(CdL(OH)2+H)=8.31	1957PPb (45977)2071
Cd++	oth	oth/un	25°C	0.50M	U	K(CdH3L=CdHL+2H)=-3.24	1953SUB (45978)2072
Cd++	vlt	oth/un	25°C	var	U	K1=4.2	1951MEa (45979)2073

C6H8O7P2		H3L				CAS 101378-64-7	(7666)
Phenyldiphosphoric acid;							

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values Reference ExptNo
Cd++	gl	NaNO3	25°C	0.10M	M	K1=4.21	1999SSa (46342)2074

C6H9NO2S2		H2L				CAS 7250-31-9	(8861)
2-Carboxy-1-pyrrolidinedithioic acid;							

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values Reference ExptNo
Cd++	vlt	oth/un	25°C	0.50M	C	B2=12.90	1976KNb (46348)2075
Medium: 0.50 M Na2SO4, pH 9.4 (borate buffer). Methods: dc and ac polarography, cyclic voltammetry and chronopotentiometry.							

C6H9NO6		H3L		NTA		CAS 139-13-9	(191)
Nitrilotriethanoic acid; N(CH2.COOH)3							

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values Reference ExptNo
Cd++	vlt	oth/un	20°C	1.0M	U	K1(eff)=3.67	1998TDa (46619)2076
Medium: 1.0 M acetate buffer, pH 4.72. Also K1(eff)=4.50 (pH 5.04), K1(eff)=3.09 (pH=3.98), K1(eff)=3.67 (pH=4.45).							

Cd++	gl	NaNO3	25°C	0.10M	M	K1=9.26	1996KSc (46620)2077

Cd++	gl	NaClO4	37°C	0.10M	U	K1=10.99	1992GHa (46621)2078
Method: coulometric titration							

Cd++	oth	NaClO4	30°C	0.10M	C	K1=9.78	1991TSc (46622)2079
Method: electrophoresis. Medium: pH 5.8.							

Cd++ ISE KNO3 25°C 0.10M U K1=9.98 B2=14.44 1983YWa (46623)2080

Cd++ gl NaCl 37°C 0.15M U K1=8.253 B2=12.238 1982HFa (46624)2081

Cd++ gl KNO3 25°C 2.5M M K1=9.10 1979FLc (46625)2082

Cd++ gl NaClO4 25°C 0.10M U M K1=10.00 1975RMa (46626)2083
B(CdL(Cys))=17.53
K(Cd+L+HPO4)=18.35
K(CdHPO4+L)=15.44

Cd++ gl NaClO4 25°C 0.10M U M 1974RMb (46627)2084
K(Cd+HL)=3.25
K(CdL+HPO4)=8.35
K(Cd+L+HPO4)=11.60

Cd++ gl NaClO4 25°C 0.10M U M 1974RMb (46628)2085
K(Cd+HL)=3.25
K(CdHL+Fulvate)=4.13
K(Cd+HL+Fulvate)=7.38

Cd++ nmr oth/un 25°C 0.10M U M 1973RBb (46629)2086
K(CdL+en)=5.05
K(CdL+Gly)=2.93
K(CdL+A)=4.01

H2A=iminodiethanoic acid

Cd++ gl KNO3 25°C 0.10M U T M 1971ICa (46630)2087
K(CdL+Pro)=3.05
K(CdL+Gly)=3.05
15 C, K(CdL+Pro)=3.15. 50 C, 2.83. 70 C, K=2.62

Cd++ gl KNO3 25°C 0.10M U T M 1971ICb (46631)2088
K(CdL+A)=2.44
15 C, K=2.48. 50 C, K=2.31. 70 C, K=2.26. HA=piperidine-2-carboxylic acid

Cd++ gl KNO3 25°C 0.10M U T M 1971ICc (46632)2089
K(Cd(OH)L+H)=11.25
K(CdL+A)=2.50

HA=aminocyclopentanecarboxylic acid. 15 C, values are: 11.77 and 3.55.
50 C, 10.52, 2.38. 70 C, 10.23, 2.30

Cd++ gl KNO3 25°C 0.10M U T M 1971IVb (46633)2090
K(CdL+Sar)=2.64
K(CdL+A)=2.70
15 C, K(CdL+Sar)=2.72. 70 C, K=2.36. 15 C, K(CdL+A)=2.76. 70 C, K=2.34.
HA=dimethylglycine

Cd++ gl KNO3 25°C 0.10M U M 1971TSh (46634)2091

K(CdL+Ala)=2.80

K(CdL+Asp)=2.96

Cd++ nmr oth/un 25°C 1.50M U T K1=9.4 B2=14.30 1969RKa (46635)2092

Cd++ dis NaClO4 30°C 1.0M U K1=9.2 1965HSc (46636)2093

Cd++ oth KNO3 20°C 0.10M U K1=10.0 B2=14.60 1964JOa (46637)2094
Method: paper electrophoresis.

Cd++ dis NaClO4 20°C 0.10M U B2=15.45 1963STc (46638)2095

Cd++ vlt KNO3 20°C 0.10M U T K1=9.80 1956SGa (46639)2096

Cd++ vlt KNO3 20°C 0.10M U T K1=9.83 1955SAa (46640)2097

Cd++ gl KCl 20°C 0.10M U K1=9.54 1951SFa (46641)2098

Cd++ vlt KCl 20°C 0.10M U I K1=9.16 1950KKa (46642)2099
K1=8.85(I=0.2), 8.61(I=0.3)

Cd++ gl KCl 20°C 0.10M U K1=>10 K2=5.7 1948SBa (46643)2100
K(CdLOH+H)=12

C6H9N3O2 HL Histidine CAS 71-00-1 (1)
2-Amino-3-(4'-imidazolyl)propanoic acid; H2N.CH(CH2.C3H3N2)COOH

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

Cd++ vlt KNO3 25°C 1.0M C M K1=5.40 B2= 9.76 1997KKb (47464)2101
B3=12.00
B(CdAL)=6.13
B(CdA2L)=10.42
B(CdAL2)=12.84

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl NaClO4 25°C 0.20M M K1=5.545 B2=10.16 1994VBb (47465)2102

Cd++ gl NaNO3 25°C 0.50M C K1=5.39 B2=9.59 1994WCa (47466)2103
B(CdH-1L2)=-1.51

Cd++ EMF NaCl 25°C 1.00M C I K1=4.41 B2=7.89 1993BFa (47467)2104
B(CdHL)=10.48
B(CdH2L)=15.56
B(CdHL2)=15.51
B(CdH2L2)=21.74

Method: Cd/Hg amalgam electrode and glass electrode. In 1 M NaClO4: K1=5.98,
B2=10.15, B(CdHL)=11.40, B(CdH2L)=16.50, B(CdHL2)=16.40.

Cd++ gl alc/w 37°C 70% U M K1=6.59 B2=12.10 1993ZLa (47468)2105

Medium: 70% v/v EtOH/H₂O, 0.1 M KNO₃. B(CdAL)=13.80, A=vitamin D₃

Cd++ gl KNO₃ 25°C 0.10M U K1=5.29 B2=9.60 1992LPc (47469)2106
B(CdH-1L)=-5.54

Cd++ gl KCl 25°C 0.20M C M K1=5.44 B2=9.39 1992UKa (47470)2107
B(CdHL)=11.56
B(CdH-1L)=-4.04

By polarography: K1=6.42; B2=10.67, B(CdAL)=8.27, H₂A=oxalic acid

Cd++ gl NaClO₄ 25°C 0.20M U K1=5.50 B2=10.15 1992VBa (47471)2108

Cd++ gl KNO₃ 35°C 0.20M U M K1=5.86 1989RVa (47472)2109
K(CdA+L)=5.10

A=bis(imidazol-2-yl)methane

Cd++ gl KNO₃ 25°C 0.20M C K1=5.58 B2= 9.92 1986SVa (47473)2110
B(CdHL)=11.16

Cd++ gl NaCl 37°C 0.15M U M K1=5.10 B2=9.02 1985CFb (47474)2111
B(CdHL)=10.47
B(CdH-1L)=-5.10
B3=10.7

B(CdL(Ala))=8.165; B(CdH-1L(Ala))=-2.35

Cd++ vlt KNO₃ 30°C 1.00M U M 1983ISc (47475)2112
B(CuLA)=9.53
B(CuL2A)=12.79
B(CuLA2)=12.33

A=1,2-diaminopropane

Cd++ cal KNO₃ 25°C 0.10M U H 1981AAc (47476)2113
DH(K1)=-32.7, DH(B2)=-41.2, DH(CdHL)=-56.4 kJ mol⁻¹

Cd++ ISE KNO₃ 25°C 0.10M U M K1=5.74 B2=9.96 1980DAa (47477)2114
B(CdHL)=11.17
B(CdL(citrate))=8.36
B(CdHL(citrate))=14.85

Cd++ gl KNO₃ 25°C 0.10M C M 1979ADa (47478)2115
B(CuCdL2)=20.73
B(CuCdHL2)=25.45
B(CuCdH-1L2)=12.65
B(CuCdH-2L2)=<3.9

Cd++ gl KNO₃ 30°C 0.10M M K1=5.65 B2= 9.79 1978MSi (47479)2116

Cd++ ISE NaClO₄ 25°C 3.00M C T K1=6.484 B2=11.105 1974WWa (47480)2117

Cd++ gl KCl 25°C 0.10M U T K1=5.39 B2=9.66 1970MMF (47481)2118

DL-histidine: K1=5.40, K2=4.30

Cd++ EMF oth/un 25°C ? U K1=5.8 B2=10.00 1966PAa (47482)2119

Cd++ vlt KNO3 45°C 0.10M U T H B2=9.90 1964ARa (47483)2120
B2=11.40(0 C), 10.20(25 C); DH(B2)=-59.4 kJ mol⁻¹, DS=0

Cd++ gl oth/un 25°C 0.01M U K1=5.65 B2=9.79 1959LRa (47484)2121

Cd++ gl KNO3 25°C 0.15M U B2=11.10 1955LMa (47485)2122

Cd++ gl oth/un 20°C 0.00 U B2=11.1 1953PEa (47486)2123
Medium: 0.0025 CdSO4

C6H9N3O2S H2L Thiolhistidine CAS 13552-61-9 (5659)
1-Amino-2-(2-Mercaptoimidazole)-propionic acid;

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

Cd++ gl NaClO4 25°C 0.10M U K1=9.08 B2=17.00 1982TSb (47637)2124

C6H9N3O3 L Metronidazole CAS 443-48-1 (1432)
2-Methyl-5-nitro-H-imidazole-1-ethanol; C3HN2(NO2)(CH3).CH2.CH2.OH

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

Cd++ gl KNO3 25°C 0.50M U K1=1.19 1983LWa (47647)2125

C6H9O6P H3L CAS 4408-72-4 (7015)
Phosphotriethanoic acid; P(CH2.COOH)3

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

Cd++ gl NaClO4 25°C 0.10M U I K1=3.55 1979POa (47656)2126
B(CdHL)=7.12

Also data for 50% v/v dioxan/H2O

C6H10N2 L CAS 931-36-2 (1419)
2-Ethyl-4-methyl-1,3-diazole; C3H2N2(CH3)(C2H5)

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

Cd++ gl KNO3 25°C 0.50M U K1=1.54 B2=2.54 1982LKB (47683)2127
B3=4.11

C6H10N2O4 H2L (3104)
Piperazine-2,6-dicarboxylic acid;

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

Cd++ g1 KCl 22°C 0.10M U 1964PCa (47733)2128
K(CdClx+L=CdL+xCl)=4.6
4.4

C6H10N2O4 H2L CAS 89601-09-2 (3102)
trans-Piperazine-2,3-dicarboxylic acid;

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

Cd++ g1 KCl 22°C 0.10M U 1964PCa (47745)2129
K(CdClx+L=CdL+xCl)=6.0

C6H10N2O5 H2L Gly-Asp CAS 4685-12-5 (282)
Glycyl-aspartic acid; H2N.CH2.CO.NH.CH(CH2.COOH).COOH

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

Cd++ g1 KNO3 25°C 0.20M C K1=3.21 B2= 5.22 1986SVa (47777)2130

C6H10N2O5 H2L ADA CAS 26239-55-4 (2747)
N-(2-Acetamido)iminodiethanoic acid; H2N.CO.CH2.N(CH2.COOH)2

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

Cd++ g1 KNO3 25°C 0.10M C M K1=6.39 2003AHa (47821)2131
K(CdL+A)=3.45

HA is 3-amino-5-mercapto-1,2,4-triazole.

Cd++ g1 KNO3 25°C 0.10M M M K1=6.34 1996AEa (47822)2132
Data for ternary complexes with dipicolinic acid

Cd++ g1 NaNO3 25°C 0.10M M K1=9.72 1996KSc (47823)2133

Cd++ ISE NaNO3 25°C 0.1M M M K1=9.72 1996SKa (47824)2134
K(CdL+Gly)=3.98
K(CdL+Ala)=3.51
K(CdL+Pro)=4.45
K(CdL+Val)=3.53

Data also for many other ternary complexes with amino acids

Cd++ g1 KCl 20°C 0.10M U K1=7.08 B2=10.68 1955SAa (47825)2135

C6H10N2O6P2 H4L (6893)
N-(2-Pyridyl)aminomethylenedi(phosphonic acid); C5H4N.NH.CH(PO3H2)2

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

Cd++ g1 KNO3 25°C 0.10M U K1=10.27 1990GKa (47869)2136
K(Cd+HL)=9.01
K(Cd+H2L)=5.57

 C6H10N8O L (8205)
 Bis(5-tetrazolyethylene)oxide;

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

 Cd++ gl NaNO3 20°C 0.1M U K1=3.55 1979ESa (47914)2137

C6H10N8S L (8206)
 Bis(5-tetrazolyethane)sulphide;

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

 Cd++ gl NaNO3 20°C 0.1M U K1=4.18 1979ESa (47919)2138

C6H10O2S HL CAS 29431-24-1 (4369)
 (But-1-enylthio)ethanoic acid; CH2:CH.CH2.CH2.S.CH2.COOH

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

 Cd++ ISE KNO3 25°C 0.10M C K1=0.51 1972FGb (47956)2139
 By competition with Ag+ using Ag ISE

C6H10O2S HL (4370)
 Ethyl thioacetoacetate; CH3.CS.CH2.CO.OCH2.CH3

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

 Cd++ ISE KNO3 25°C 0.10M C K1=0.70 1972FGb (47959)2140
 By competition with Ag+ using Ag ISE

C6H10O2S2 HL (1224)
 1,2-Dithiolane-3-propanoic acid, Bisnorlipoic acid; C3H5S2.CH2CH2COOH

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

 Cd++ gl diox/w 25°C 50% C K1=2.58 1978SPa (47974)2141

C6H10O3 HL CAS 16841-19-3 (3649)
 1-Hydroxycyclopentanecarboxylic acid; HO.C5H8.COOH

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

 Cd++ gl NaClO4 25°C 0.10M U K1=1.45 B2=2.38 1967PRb (47983)2142

C6H10O4 H2L Adipic acid CAS 124-04-9 (401)
 1,6-Hexanedioic acid; HOOC.(CH2)4.COOH

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

Cd++ vlt NaNO3 25°C 1.0M C M K1=1.35 B2= 1.84 1992KIa (48052)2143
 B3=2.89
 B(Cd(imidazole)L2)=4.32
 B(Cd(imidazole)L)=3.75
 B(Cd(imidazole)2L)=5.80

Method: polarography. Medium: pH 8.0.
 Data for many other ternary complexes with imidazole.

 Cd++ vlt NaNO3 25°C 1.0M C M K1=1.35 B2= 1.84 1990KMe (48053)2144
 B3=2.89
 B(Cu(pn)L)=6.21
 B(Cu(pn)L2)=7.38
 B(Cu(pn)2L)=7.82

Method: DP and DC polarography. Medium pH 8.0
 pn is 1,3-diaminopropane.

 Cd++ vlt KNO3 25°C 2.50M U M K1=1.41 B2=2.11 1979JBb (48054)2145
 B3=3.16
 B(CdL(SCN))=2.34
 B(CdL(SCN)2)=2.65
 B(CdL2(SCN))=2.54

 Cd++ ISE NaClO4 25°C 3.00M C K1=2.00 1979NNa (48055)2146
 B(CdHL)=6.73
 B(CdH2L2)=13.86

 Cd++ vlt NaClO4 30°C 2.00M U T K1=1.60 B2=1.70 1975BCa (48056)2147
 B3=3.18

 Cd++ gl oth/un 25°C 0.10M U K1=2.1 1960YYa (48057)2148

 C6H10O4S H2L CAS 42715-54-8 (986)
 2,2'-Thiodipropanoic acid; HOOC.CH(CH3).S.CH(CH3).COOH

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

 Cd++ gl KNO3 25°C 0.10M C K1=2.25 1975LPa (48124)2149

 C6H10O4S H2L CAS 111-17-1 (139)
 3,3'-Thiodipropanoic acid; HOOC.CH2.CH2.S.CH2.CH2.COOH

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

 Cd++ gl KNO3 25°C 0.05M M K1=3.17 1975DPb (48170)2150

 Cd++ gl KNO3 25°C 0.10M C K1=2.31 1975LPa (48171)2151
 K(Cd+HL)=1.77

 Cd++ vlt KNO3 30°C 1.20M U T K1=1.80 B2=2.19 1972RGb (48172)2152
 B3=2.99

K1(40 C)=1.68, K1(50 C)=1.60, B2(40 C)=2.08, B2(50 C)=2.08, B3(40 C)=2.94,
B3(50 C)=2.90

Cd++ vlt mixed 30°C 20% U K1=1.95 B2=2.72 1972RGb (48173)2153
B3=3.24

Medium: 20% HCON(CH3)2

Cd++ gl NaClO4 25°C 0.10M U K1=2.0 1968SKd (48174)2154

C6H1004S2 H2L CAS 7244-02-2 (438)
1,2-Bis(carboxymethylthio)ethane; HOOC.CH2.S.CH2.CH2.S.CH2.COOH

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

Cd++ gl KNO3 25°C 0.10M U K1=2.65 1971FPa (48230)2155

Cd++ oth oth/un 25°C 0.10M U K1=2.8 1964PCa (48231)2156

Cd++ gl oth/un 20°C 0.10M U K1=2.85 1961SOb (48232)2157
K(Cd+HL)=1.93

C6H1004S2 H2L CAS 1119-62-6 (3697)
3,3'-Di(thiopropionic acid); HOOC.CH2.CH2.S.S.CH2.CH2.COOH

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

Cd++ vlt KNO3 30°C 1.0M C K1=0.57 B2= 2.44 1983SGf (48266)2158
B3=2.57
B4=3.69
B5=5.30

Method: polarography.

C6H1004S2 H2L CAS 27887-85-0 (7721)
meso-Dimercaptobutanedioc acid dimethyl ester;

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

Cd++ gl KCl 25°C 0.10M C K1=14.3 B2=23.40 2002CDc (48274)2159
B(CdH2L2)=34.1
B(CdHL2)=29.3

C6H1004Se H2L CAS 80030-00-8 (987)
2,2'-Selenodipropanic acid; HOOC.CH(CH3).Se.CH(CH3).COOH

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

Cd++ gl KNO3 25°C 0.10M C K1=2.09 1975LPa (48281)2160
K(Cd+HL)=0.9

C6H1004Se H2L CAS 2168-88-9 (982)

3,3'-Selenodipropanoic acid; HOOC.CH2.CH2.Se.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=2.07 K(Cd+HL)=1.52	1975LPa (48292)	2161

C6H1004Te H2L CAS 2168-91-4 (983)
3,3'-Tellurodipropanoic acid; HOOC.CH2.CH2.Te.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=2.85 K(Cd+HL)=2.4	1975LPa (48303)	2162

C6H1005 H2L CAS 5961-83-1 (981)
3,3'-Oxodipropionic acid; HOOC.CH2.CH2.O.CH2.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=1.66	1975LPa (48312)	2163

C6H1007 HL Galacturonic CAS 685-73-4 (290)
D-Galacturonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	cal	oth/un	22°C	var	C	H		K1=1.54 DH(K1)=1.9 kJ mol ⁻¹ , DS(K1)=36 J K ⁻¹ mol ⁻¹	1999MGa (48383)	2164

Cd++	gl	NaClO4	25°C	1.00M	U			K1=1.52	1990DGb (48384)	2165
Cd++	gl	NaClO4	25°C	1.00M	C			K1=1.15	1977Mca (48385)	2166

C6H1007 HL Glucuronic acid CAS 6556-12-3 (599)
D-Glucuronic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0	M	I		K1=2.52 B2=4.2	1996Gmb (48413)	2167

At I=0.16 M: K1=2.16, B2=3.7
C6H1008 H2L Mucic acid CAS 526-99-8 (3650)
2,3,4,5-Tetrahydroxyhexanedioic acid, Galactaric acid; HOOC.(CHOH)4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.05M	C			K1=4.51 B2= 8.20	2002SFa (48434)	2169

B(CdH-1L)=-4.15
B(CdH-2L)=-12.16
B(CdH-1L2)=-0.6
B(CdH-2L2)=-8.78

C6H10O8 H2L Saccharic acid CAS 87-73-0 (1191)
D-2,3,4,5-Tetrahydroxy-1,6-hexanedioic acid, Glucaric acid; HOOC.(CHOH)4.COOH

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

Cd++ gl KNO3 25°C 1.00M U 1976V0a (48461)2170
K(Cd+H2L=CdH-1L+3H)=-8.85

Cd++ sp KNO3 25°C 1.0M C 1975V0a (48462)2171
K(Cd+H-1L)=8.85

Authors assume that K(H-1L+H)=14.0.

C6H11NO2 HL CAS 16258-05-2 (1128)
2-Amino-hex-5-enoic acid; CH2:CH.CH2.CH2.CH(NH2).COOH

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

Cd++ gl KNO3 25°C 0.10M U K1=3.75 B2=7.16 1975IPb (48511)2172

C6H11NO2 HL CAS 37910-65-9 (6018)
2-Aminocyclopentane-1-carboxylic acid;

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

Cd++ gl NaClO4 25°C 0.50M C K1=3.26 B2=6.43 1986GGa (48516)2173
B(CdH-1L)=-5.88

cis isomer

C6H11NO4 H2L (1232)
2,2'-Iminodipropanoic acid; HN(CH(CH3)COOH)2

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

Cd++ gl KNO3 25°C 0.10M C K1=5.4 B2=9.70 1987AKa (48575)2174

C6H11NO4 H2L (3106)
Iminodipropanoic acid; HN(CH2.CH2.COOH)2

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

Cd++ gl KCl 30°C 0.10M U K1=3.56 1952CMa (48589)2175

C6H11NO4S H3L CAS 58033-48-5 (3124)
N-2-Mercaptoethyliminodiethanoic acid; HS.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U			K1=16.72 B2=22.07 K(Cd+HL)=7.42	1955SAa (48607)	2176

C6H11NO5 H2L HIMDA CAS 93-62-9 (192)
N-(2-Hydroxyethyl)iminodiethanoic acid; HO.CH2.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	NaNO3	25°C	0.10M	C			K1=7.46 B2=12.59 B(CdHL)=10.12	2003CMA (48671)	2177

Method: Cd ion selective electrode and glass electrode.

Cd++	vlt	NaNO3	25°C	0.30M	U			K1=7.21	1974KNc (48672)	2178
------	-----	-------	------	-------	---	--	--	---------	-----------------	------

Cd++	oth	KNO3	20°C	0.10M	U			K1=8.6 B2=13.80	1965JMa (48673)	2179
------	-----	------	------	-------	---	--	--	-----------------	-----------------	------

Method: electrophoresis

Cd++	vlt	KNO3	25°C	0.10M	U			K1=7.41 B2=13.75	1965VFa (48674)	2180
------	-----	------	------	-------	---	--	--	------------------	-----------------	------

Cd++	gl	KNO3	20°C	0.10M	U			K1=7.52 B2=12.76	1955SAa (48675)	2181
------	----	------	------	-------	---	--	--	------------------	-----------------	------

Cd++	gl	KCl	20°C	0.10M	U			K1=7.12 B2=12.24	1952CCa (48676)	2182
------	----	-----	------	-------	---	--	--	------------------	-----------------	------

C6H11NO5 H2L (7174)
N-Carboxymethylthreonine; HOOCCH2NHCH(CH(OH)CH3)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=5.84 B2=10.33 B(CdHL)=10.47 B(CdHL2)=16.41 B(CdH-1L)=-4.94	2001MTb (48823)	2183

Method: Cd ion selective electrode and glass electrode.

C6H11NO5 H2L (1233)
N-Hydroxyimino-2,2'-dipropanoic acid; HO.N(CH(CH3)COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=4.5 B2=8.50	1987AKa (48837)	2184

C6H11N3O4 HL Gly-Gly-Gly CAS 556-33-2 (415)
Glycyl-glycyl-glycine; H2N.CH2.CO.NH.CH2.CO.NH.CH2.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=2.97	1992LPc (48961)	2185

Cd++	vlt	KNO3	25°C	0.10M	C			K1=2.39 B2= 4.90	1989BSa (48962)	2186
------	-----	------	------	-------	---	--	--	------------------	-----------------	------

B3=6.42

Method: SW voltammetry

Cd++ nmr oth/un 25°C 0.20M U K1=2.69 1972RLb (48963)2187
K(Cd+HL)=1.03

Medium: 0.8, 0.2 Cd(NO3)2

Cd++ gl KNO3 25°C 0.15M U K1=2.70 1958LCb (48964)2188

Cd++ vlt KNO3 25°C 0.15M U B2=5.3 1958LCb (48965)2189

Cd++ gl none 25°C 0.0 U K1=3.30 B2=5.85 1955EMa (48966)2190

Cd++ gl oth/un 25°C 0.01M U K1=2.0 1954PEa (48967)2191

Medium: CdSO4

C6H11N9 L (7008)

Di(2-(5-tetrazoly)ethyl)amine; ((CHN4)CH2.CH2)2NH

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

Cd++ gl NaNO3 20°C 0.10M U K1=6.66 1981ESa (49002)2192

Cd++ gl NaNO3 20°C 0.1M U K1=6.66 1979ESa (49003)2193

C6H12N2O3 HL D-Ala-Ala CAS 1115-78-2 (2138)

D-Alanyl-L-alanine; H2N.CH(CH3).CO.NH.CH(CH3).COOH

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

Cd++ gl oth/un 25°C 0.01M U K1=3.00 1954PEa (49115)2194

C6H12N2O3 HL DL-Ala-DL-Ala CAS 2867-20-1 (67)

DL-Alanyl-DL-alanine; H2N.CH(CH3).CO.NH.CH(CH3).COOH

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

Cd++ gl KCl 20°C 0.20M U K1=2.56 B2=4.64 1982RRd (49127)2195

C6H12N2O3 HL Sar-Sar CAS 38082-70-1 (3114)

Sarcosylsarcosine; CH3.NH.CH2.CO.N(CH3).CH2.COOH

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

Cd++ gl oth/un 25°C 0.01M U K1=2.97 B2=5.24 1959DLb (49150)2196

C6H12N2O3S H2L Ala-Cys (670)

Alanyl-cysteine; NH2.CH(CH3).CO.NH.CH(CH2.SH).COOH

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

Cd++ gl KCl 25°C 0.20M U B2=13.71 1990CRa (49156)2197
B(CdHL)=15.30
B(CdH2L2)=30.28
B(CdHL2)=22.40
B(CdH-1L2)=2.88

Cd++ gl KNO3 25°C 0.20M C B2=13.71 1990KUa (49157)2198
B(CdHL)=15.30
B(CdH2L2)=30.28
B(CdHL2)=22.40
B(CdH-1L2)=2.88

C6H12N2O4 H2L EDDA CAS 5657-17-0 (119)
1,2-Diaminoethane-N,N'-diethanoic acid; HOOC.CH2.NH.CH2.CH2.NH.CH2.COOH

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

Cd++	ISE	KNO3	25°C	0.10M	U		K1=9.17	B2=13.89	1983YWa	(49209)2199
------	-----	------	------	-------	---	--	---------	----------	---------	-------------

Cd++	gl	NaCl	37°C	0.15M	U		K1=8.629	B2=12.991	1982HFa	(49210)2200
------	----	------	------	-------	---	--	----------	-----------	---------	-------------

Cd++	gl	KNO3	25°C	0.10M	U		K1=9.16		1979GMa	(49211)2201
------	----	------	------	-------	---	--	---------	--	---------	-------------

Cd++	vlt	NaClO4	25°C	0.20M	U		K1=10.8	B2=15.0	1973NHb	(49212)2202
------	-----	--------	------	-------	---	--	---------	---------	---------	-------------

Cd++	gl	KNO3	25°C	0.10M	U	M			1972IVb	(49213)2203
							K(CdL+Gly)=3.30			

Cd++	gl	KNO3	25°C	0.10M	U	M	K1=9.40		1970DNa	(49214)2204
							K(CdL+en)=4.33			

Cd++	gl	KCl	30°C	0.10M	U		K1=8.8		1952CMc	(49215)2205
------	----	-----	------	-------	---	--	--------	--	---------	-------------

C6H12N2O4 H2L N,N-EDDA CAS 5835-29-0 (2333)
1,2-Diaminoethane-N,N-diethanoic acid; H2N.CH2.CH2.N(CH2.COOH)2

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

Cd++	gl	KCl	20°C	0.10M	U		K1=10.58	B2=16.59	1955SAa	(49295)2206
------	----	-----	------	-------	---	--	----------	----------	---------	-------------

C6H12N2O4 H2L CAS 4726-83-4 (5911)
N,N-Dihydroxyhexanediamide; HN(OH).CO.(CH2)4.CO.NH(OH)

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

Cd++	gl	NaNO3	25°C	0.10M	C		K1=6.16		1989EHa	(49329)2207
							B(CdHL)=13.73			

C6H12N2O4S2 H2L Cystine CAS 923-32-0 (1404)

DL-Dithio-bis(2-amino-3-propanoic acid); (HOOC.CH(NH2).CH2.S)2

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

Cd++ gl NaCl 37°C 0.15M U M K1=8.22 1982HFa (49362)2208
B(CdH-1L(EDDA))=1.07
K(CdH-1L(Penicillamine))=5.41
B(CdH-1L(EDTA))=24.47

C6H12N4 L Methenamine CAS 100-97-0 (619)
Hexamethylenetetramine;

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

Cd++ ISE NaNO3 25°C 0.20M U I B2=0.11 1975BNa (49384)2209
Medium: LiNO3. In 50% EtOH B2=0.29; 50% PrOH B2=0.32; 50% Acetone B2=0.64

C6H12O2S HL CAS 20600-61-7 (4375)
(Butylthio)ethanoic acid; CH3.(CH2)3.S.CH2.COOH

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.91 1972FGb (49445)2210
By competition with Ag+ using Ag ISE

C6H12O2Se HL (4379)
(Butylseleno)ethanoic acid; C4H9.Se.CH2.COOH

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.70 1972FGb (49455)2211
By competition with Ag+ using Ag ISE

C6H12O5S HL (691)
1-Thio-beta-D-glucopyranose;

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

Cd++ gl KNO3 25°C 0.15M M K1=5.89 B2=12.42 1987GFa (49524)2212
B3=16.64

C6H12O6 L D-Glucose CAS 492-62-6 (1560)
D-Glucose

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

Cd++ cal oth/un 22°C var C H K1=0.85 1999MGa (49574)2213
DH(K1)=1.1 kJ mol⁻¹, DS(K1)=20 J K⁻¹ mol⁻¹.

C6H12O7 HL Gluconic acid CAS 526-95-4 (904)

D-Gluconic acid, 2,3,4,5,6-Pentahydroxyhexanoic acid; HO.CH₂(CHOH)₄.COOH

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

Cd++ gl NaNO₃ 25°C 0.10M C K1=2.3 1996ESa (49685)2214
B(CdH-2L)=-15.7

Cd++ ISE KNO₃ 25°C 0.50M C 1985BSb (49686)2215
B(Cd2H-4L2)=-25.9

By combined pM, pH measurements.

Cd++ ISE NaClO₄ 25°C 1.00M U K1=1.15 B2=2.08 1981TVa (49687)2216
Determined using a CdHg electrode and a glass electrode

Cd++ vlt NaClO₄ 20°C 1.5M C M K1=0.70 B2= 1.59 1980AJa (49688)2217
B3=2.30
B(CdLA)=1.52
B(CdLA2)=3.26
B(CdL2A)=2.52

Method: polarography. H₂A is itaconic acid. B(Cd(py)L)=2.67,
B(Cd(py)L₂)=2.82, B(Cd(py)₂L)=3.01

Cd++ vlt NaNO₃ 25°C 1.00M U K1=1.7 1979BRa (49689)2218
B(CdL(OH))=7.4

Cd++ vlt NaClO₄ 25°C 1.50M U M K1=0.70 B2=1.48 1979JAb (49690)2219
B3=2.30
B(CdLA)=1.88
B(CdL2A)=2.40
B(CdLA2)=2.95

H₂A=citraconic acid

Cd++ vlt NaNO₃ 25°C 1.0M U B2=2.09 1963ZGa (49691)2220

C₆H₁₃N₂O₂ HL Isoleucine CAS 73-32-5 (424)
2-Amino-3-methylpentanoic acid; CH₃.CH₂.CH(CH₃).CH(NH₂).COOH

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

Cd++ gl KNO₃ 35°C 0.10M C M K1=3.67 B2= 6.90 1998ZWa (49885)2221
Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-
2,10-dione dioxime

Cd++ gl NaClO₄ 25°C 0.20M U T M K1=3.91 B2= 7.28 1993PPa (49886)2222
K(CdA+L)=3.91
A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl NaClO₄ 27°C 0.20M U M K1=3.91 B2= 7.28 1988PPc (49887)2223
K(CdA+L)=3.96

A is 2,2'-dipyridylamine.

Cd++ gl NaClO4 25°C 0.70M U K1=3.635 B2= 6.82 1985SCc (49888)2224
By differential pulse polarography, K1=3.43, B2=6.70

Cd++ vlt KNO3 30°C 1.0M C M K1=3.90 B2= 6.80 1984CGc (49889)2225
B3=8.94
B(CdAL)=8.85
B(CdAL2)=11.00
B(CdA2L)=12.13

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ gl NaClO4 30°C 0.20M U T K1=3.94 B2=7.31 1975JBb (49890)2226

Cd++ vlt oth/un 25°C 1.0M U B2=6.9 1965VZa (49891)2227
B3=8.8

Cd++ gl oth/un 20°C 0.01M U B2=6.6 1952PEa (49892)2228
Medium: CdSO4

C6H13NO2 HL Leucine CAS 61-90-5 (47)
2-Amino-4-methylpentanoic acid; H2N.CH(CH2.CH(CH3)2)COOH

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

Cd++ gl alc/w 37°C 40% C M K1=4.21 B2= 7.62 1998AAa (50032)2229
B(CdLA)=8.62
K(CdL+A)=4.41
K(CdA+L)=3.58
B(CdLC)=8.47

HC:2[o-hydroxyphenylazo]-2-cyanomethyl benzimidazole. 40% EtOH/H2O, I=0.15
H2A:5-[o-hydroxyphenylazo] barbituric acid. K(CdL+C)=4.26, K(CdC+L)=3.62.

Cd++ gl alc/w 37°C 40% C K1=4.21 B2= 7.62 1997AAb (50033)2230
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.

Cd++ gl KNO3 25°C 0.10M C T HM K1=3.92 B2= 7.17 1993GWa (50034)2231
K(CdL+bpy)=3.52
B(CdL(bpy))=7.73
K(CdL+phen)=3.64
B(CdL(phen))=9.38

Data for 15-45 C. DH(K1)=-27.72 kJ mol⁻¹, DS(K1)=-17.91 J K⁻¹ mol⁻¹,
DH(B2)=-48.81, DS(B2)=-26.43, DH(CdL(bpy))=-62.22, DH(CdL(phen))=-64.18.

Cd++ gl NaClO4 25°C 0.20M U T M K1=4.92 B2= 8.48 1993PPa (50035)2232
K(CdA+L)=4.18

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl KNO3 25°C 0.10M U I K1=4.30 B2=8.44 1990RAB (50036)2233
Data also for 10% w/w EtOH/H2O (B1=4.39; B2=8.73) and 25% (4.62; 9.24)

Cd++ vlt KNO3 25°C 1.0M U M K1=4.17 B2= 7.35 1989KNb (50037)2234
 K3=1.99
 B(CdAL)=6.12
 B(CdA2L)=8.23
 B(CdAL2)=8.60

Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++ vlt KNO3 25°C 1.0M C M K1=4.17 B2= 7.35 1989NKc (50038)2235
 B3=9.34
 B(CdAL)=6.25
 B(CdAL2)=8.78
 K(CdAL+A)=2.16

Method: polarography. Medium pH 8.5. HA is ethanoic acid. B(CdA2L)=8.41.

Cd++ gl KNO3 35°C 0.20M U M K1=4.01 B2=7.30 1989RVa (50039)2236
 K(CdA+L)=3.62

A=bis(imidazol-2-yl)methane

Cd++ gl NaClO4 27°C 0.20M U M K1=4.92 B2= 8.48 1988PPc (50040)2237
 K(CdA+L)=4.18

A is 2,2'-dipyridylamine.

Cd++ vlt NaClO4 25°C 1.00M U B2=7.48 1986RQa (50041)2238
 B3=10.91

Cd++ gl oth/un 30°C 0.20M U M K1=3.92 1984JOb (50042)2239
 K(Cd(bpy)+L)=3.93

Medium: not stated.

Cd++ nmr KNO3 34°C 0.10M U M 1983SFa (50043)2240
 K(Cd(ATP)+L)=3.51

Cd++ gl NaClO4 30°C 0.20M U T K1=3.92 B2=7.48 1975JBb (50044)2241

Cd++ oth KNO3 20°C 0.10M U K1=5.8 B2=9.40 1964JOa (50045)2242
 K3=2.4

Method: paper electrophoresis

Cd++ gl oth/un 25°C 0.01M U T K1=3.99 B2=7.37 1959DLb (50046)2243

Cd++ gl oth/un 20°C 0.01M U B2=7.8 1952PEa (50047)2244

Medium: CdSO4

C6H13NO2 HL Norleucine CAS 616-06-8 (602)
 2-Aminoheptanoic acid (2-Aminocaproic acid) CH3.(CH2)3.CH(NH2).COOH

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

Cd++ vlt NaClO4 20°C 0.10M C T H K1=3.91 B2= 7.57 1984Sdb (50158)2245

Method: polarography. Also data for 30 C. Medium pH 8.0. DH(K1)=24.8

B(CdL(OH))=8.6
B(CdL2(OH))=11.5
B(CdL(OH)2)=10.9

B(CdL2(OH)2)=12.2, B(CdL(OH)3)=12.0

Cd++ oth KNO3 20°C 0.10M U K1=6.3 B2=10.30 1965JMa (50327)2258
Method: paper electrophoresis

Cd++ gl KCl 30°C 0.10M U K1=4.81 B2=8.18 1957FCa (50328)2259

Cd++ gl KCl 30°C 0.10M U K1=4.79 B2=8.16 1953CCa (50329)2260

C6H13NO5 HL Tricine CAS 5704-04-1 (1239)
N-(Tris(hydroxymethyl)methyl)glycine; (HO.CH2)3C.NH.CH2.COOH

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

Cd++ gl KNO3 25°C 0.10M C M K1=4.35 2003AHa (50494)2261
K(CdL+A)=3.30

HA is 3-amino-5-mercapto-1,2,4-triazole.

Cd++ gl KNO3 30°C 0.10M U M 1985TGa (50495)2262
K(Cd(bpy)+L)=3.97

Cd++ vlt NaClO4 30°C 0.20M U K1=5.73 B2=7.7 1978KJb (50496)2263
B(CdL(OH))=8.14
B(CdL2(OH))=10.12
B(Cd+2OH+L)=11.0

C6H13NO6 HL CAS 84518-56-9 (4387)
2-Amino-2-deoxy-D-gluconic acid;

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

Cd++ gl NaClO4 25°C 0.10M U K1=3.82 B2= 7.18 2000KAa (50526)2264
B3=9.37

Cd++ gl NaClO4 25°C 1.00M C M K1=4.69 B2=9.39 1991DGa (50527)2265
B(CdH-1L2)=0.97
B(Cd2L)=7.48
B(CdAL)=7.63
B(Cd2AL)=11.98

HA=D-galacturonic acid.

Cd++ gl KNO3 30°C 0.10M U K1=4.2 1966MSa (50528)2266

C6H13NS HL CAS 1072-99-7 (284)
1-Methyl-4-mercaptopiperidine; C5H9N(CH3)(SH)

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

 Cd++ gl alc/w 25°C 10% C 1984BGa (50545)2267
 B(Cd3H6L6)=48.59
 B(Cd4H9L9)=73.50
 B(Cd4H10L10)=80.48
 B(Cd3H8L8)=61.85

Constants also from glass plus Cd-amalgam electrode in 10%CH3OH (3 M NaClO4)

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	25°C	1.0M	C			K1=4.30 B2= 5.48 B3=5.05	1983PSe (50567)	2268

Method: polarography. Medium: LiClO4, pH 6.4

Cd++	vlt	KN03	23°C	0.20M	U T H			K1=4.0 B2=7.0 B3=8.94	1979SSb (50568)	2269
------	-----	------	------	-------	-------	--	--	-----------------------------	-----------------	------

30 C: K1=3.86, B2=6.35, B3=8.82

Cd++	gl	oth/un	20°C	.005M	U			B2=7.3	1953PEa (50569)	2270
------	----	--------	------	-------	---	--	--	--------	-----------------	------

Medium: 0.005 CdSO4

 C6H13O9P H2L CAS 26177-86-6 (7139)
 Fructose-6-phosphoric acid; C6H11O5.H2PO4

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	C			K1=3.61	1996GCa (50605)	2271

 C6H14NO2P HL (6465)
 Piperidinemethylphosphinic acid; C5H10N.CH2.PO2H2

Cd++	gl	NaClO4	25°C	0.10M	C			K1=3.95	1992Lba (50633)	2272
------	----	--------	------	-------	---	--	--	---------	-----------------	------

 C6H14NO2S (6142)
 2-Amino-4-(S,S-dimethylsulphonium)butanoic acid; (CH3)2S(+).CH2CH2CH(NH2).CHLH;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaClO4	25°C	0.50M	C			K1=3.40 B2= 5.80 B3=8.11	1986RVa (50641)	2273

Method: polarography.

 C6H14N2 L CAS 20439-47-8 (3077)
 cis-1,2-Diaminocyclohexane; C6H10(NH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	20°C	->0	U T H			K1=5.73 B2=10.47	1958BFa (50670)	2274
DH(K1)=-23.9 kJ mol ⁻¹ ,DS=29 J K ⁻¹ mol ⁻¹ ; DH(K2)=-23.4,DS=8. 10 C: K1=5.87, K2=4.87; 30 C: 5.65, 4.64; 40 C: 5.42, 4.45										

Cd++	gl	KCl	20°C	0.10M	U			K1=5.78 B2=10.49	1956SBa (50671)	2275

C6H14N2		L						CAS 21436-03-3	(2456)	
trans-1,2-Diaminocyclohexane; C6H10(NH2)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	20°C	->0	U T H			K1=5.86 B2=10.79	1958BFa (50690)	2276
DH(K1)=-23.4 kJ mol ⁻¹ ,DS=34 J K ⁻¹ mol ⁻¹ ; DH(K2)=-27.6,DS=0. 10 C: K1=6.05, K2=5.14; 30 C: 5.74, 4.74; 40 C: 5.63, 4.66										

Cd++	gl	KCl	20°C	0.10M	U			K1=5.80 B2=10.51	1956SBa (50691)	2277
K[CdL2+OH]=2.6										

C6H14N2O		L						(2357)		
1-Oxa-4,7-diazacyclononane; Cyclo(-((CH2)2.NH)2(CH2)2.O.-)										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=4.48 B2=7.88	1986TSa (50709)	2278

C6H14N2O		L						CAS 10466-61-2	(3116)	
L-Leucine amide; H2N.CH(CH2.CH(CH3)2).CO.NH2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U			K1=1.98 B2=3.27	1959DLb (50724)	2279

C6H14N2OS		L						(6583)		
Methionine-N-methylamide; H2N.CH(CH2.CH2.SCH3)CO.NHCH3										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.20M	C			K1=2.29	1990KUa (50727)	2280

C6H14N2O2		HL						Lysine CAS 56-87-1	(41)	
2,6-Diaminohexanoic acid; H2N.(CH2)4.CH(NH2)COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C	M			1998JKb (50807)	2281
K(Cd+HL)=3.70										
K(Cd+2HL)=6.48										
K(Cd+3HL)=9.24										

K(Cd+A+HL)=4.00

Method: polarography. Medium pH 8.50. HA is nicotinic acid.
K(Cd+2A+HL)=6.60, K(Cd+A+2HL)=9.30

Cd++ vlt KNO3 25°C 1.0M C M 1993DKb (50808)2282
K(Cd+HL)=3.70
K(Cd+2HL)=6.48
K(Cd+3HL)=9.24
K(Cd+A+HL)=5.65

Method: polarography. Medium pH 8.5. B(Cd+2A+HL)=7.57,
B(Cd+A+2HL)=7.87. HA is formic acid. K(H+HL)=8.95.

Cd++ gl NaCl 37°C 0.15M U B2=7.10 1985CFb (50809)2283
B(CdHL)=13.33
B(CdHL2)=16.88
B(CdH2L2)=26.31

Cd++ gl oth/un 20°C .005M U B2=5.8 1953PEa (50810)2284
Medium: 0.005 CdSO4

C6H14N2S L (5635)
1-Thia-4,7-diazacyclononane;

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

Cd++ gl KNO3 25°C 0.10M C K1=6.82 B2=12.77 1992Wlb (50885)2285

Cd++ gl NaNO3 25°C 0.10M U K1=6.65 B2=12.46 1987HDa (50886)2286

C6H14N2S2 L (6582)
Methionine-N-methyl-thioamide; H2N.CH(CH2.CH2.SCH3)CS.NH.CH3

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

Cd++ gl KNO3 25°C 0.20M C K1=3.99 1990KUa (50893)2287

C6H14N4O L CAS 44981-30-8 (8526)
Aminoiminomethylcarbamide, 2-methylpropyl ester;

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

Cd++ gl KNO3 20°C 0.10M U I K1=5.50 B2= 8.65 1997IMb (50896)2288

Data for 0.05-0.20 M (20 C) and 25-40 C (I=0.01 M). At I=0, K1=6.30,
K2=3.70.

C6H14N4O2 L CAS 1071-93-8 (2563)
1,6-Hexanedioic acid dihydrazide; H2N.NH.CO.CH2.CH2.CH2.CH2.CO.NH.NH2

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

Cd++ vlt NaClO4 25°C 1.0M U K1=2.36 B2=4.22 1966KSb (50903)2289
 B3=5.20
 B4=5.60

 C6H14N4O2 L (1529)
 1,8-Diamino-3,6-diaza-2,7-octanedione; (H2N.CH2.CO.NH.CH2)2

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

Cd++ gl KCl 25°C 1.0M U K1=3.33 1953CGa (50926)2290

C6H14N4O2 HL Arginine CAS 74-79-3 (40)
 2-Amino-5-guanidopentanoic acid; H2N.CH((CH2)3.NH.C(:NH)(NH2)COOH

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

Cd++ vlt KNO3 25°C 1.0M C M K1=3.60 B2= 6.30 1997KKb (50991)2291
 B3=9.11
 B(CdAL)=4.40
 B(CdA2L)=7.01
 B(CdAL2)=10.00

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

 Cd++ gl oth/un 25°C ? U T K1=3.27 B2=6.45 1960PEd (50992)2292
 7 C: K1=3.31, K2=3.30; 30 C: 3.25, 3.11; 35 C: 3.22, 3.03; 40 C: 3.19, 2.96

 Cd++ gl oth/un 19°C 0.00 U B2=6.7 1953PEa (50993)2293
 Medium: 0.005 CdSO4

 C6H14O2Si HL (134)
 3-(Trimethylsilyl)propanoic acid; (CH3)3Si.CH2.CH2.COOH

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

Cd++ gl NaNO3 35°C 0.10M U K1=1.57 1979MIa (51043)2294

C6H14O12P2 H4L CAS 488-69-7 (3705)
 Fructose-1,6-diphosphoric acid;

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

Cd++ gl NaClO4 25°C 0.10M C K1=3.90 1996GCa (51122)2295

C6H14O12P2 H4L CAS 84364-89-6 (7140)
 Fructose-2,6-diphosphoric acid; C6H10O4.(H2PO4)2

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

Cd++ gl NaClO4 25°C 0.10M C K1=4.48 1996GCa (51128)2296

C6H14S L Isopropyl sulfi CAS 625-80-9 (5674)
 2,2'-Thiodipropane, diisopropyl sulfide; (CH3)2CH-S-CH(CH3)2

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

 Cd++ ISE non-aq 25°C 100% U K1=0.36 B2=0.50 1986MMb (51136)2297
 Medium: acetone, Bu4NC104

 C6H15N L CAS 37007-11-7 (4353)
 Diisopropylamine; ((CH3)2.CH)2.NH

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

 Cd++ ISE R4N.X 25°C 2.00M U K1=2.66 B2=4.75 1969MPd (51148)2298
 K3=1.54
 K4=1.01

Medium: NH4NO3

C6H15NO3 Triethanolamine CAS 102-71-6 (447)
 Tris-(2-hydroxyethyl)amine; L

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

 Cd++ vlt NaNO3 25°C 2.00M U M 1981KSd (51275)2299
 B(CdL(CNS))=2.93
 B(Cd(CNS)2)=2.69
 K(CdL+NCS)=1.93
 K(Cd(NCS)+L)=1.89

K(CdL2+NCS)=1.76, K(CdL2+2NCS)=1.52, K(Cd(NCS)2+L)=1.18, K(Cd(NCS)4+L)=0.91,
 K(Cd(NCS)3+L=CdL(NCS)+2NCS)=2.15, K(Cd(NCS)3+L=CdL(NCS)2+NCS)=1.91

 Cd++ gl KNO3 25°C 2.00M U K1=3.15 1970URa (51276)2300

 Cd++ vlt NaClO4 ? 1.0M U M K1=2.3 B2=5.0 1963CAC (51277)2301
 B(CdL2(OH))=8
 B(CdL2(OH)2)=11
 B(CdL(OH)3)=11.7
 B(CdL2(OH)3)=13.1

B(CdL2(PO4)2)=9.7, B(CdL(CO3))=5.2, K(CdL2(CO3))=6.2, B(CdL(CO3)2)=6.5,
 K(CdL2(CO3)2)=7.7

 Cd++ vlt KNO3 25°C 0.10M U K1=2.70 B2=4.60 1960MPa (51278)2302
 B3=5.21

 C6H15N3 L CAS 4730-54-5 (26)
 1,4,7-Triazacyclononane; cyclo(-NH.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2-)

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

 Cd++ gl NaClO4 25°C 0.20M M H K1=9.2 1978KKb (51398)2303

DH1=-31.8 kJ mol-1

Cd++ gl KNO3 25°C 0.10M U K1=9.5 B2=17.90 1973AHc (51399)2304

C6H15N3O3 L (6613)
1,3,5-Triamino-1,3,5-trideoxy-cis-inositol,5-Amino-5-deoxy-streptamine;

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

Cd++ gl KNO3 25°C 0.10M C K1=6.48 B2=10.95 1993HHb (51445)2305
B(Cd4H-4L4)=-4.8

C6H15O2PS2 HL (2059)
O,O'-Dipropyl dithiophosphoric acid; (C3H7O)2P(S)SH

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

Cd++ vlt mixed RT 50% C B2=5.92 1986HSd (51485)2306
B3=7.82
B4=8.76

Medium: 50% v/v DMF/H2O. Method: polarography.

C6H15O2PS2 HL CAS 25134-38-7 (4401)
Phosphorodithioic acid O,O-diisopropyl ester; (CH3.CH(CH3)O)2PS.SH

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

Cd++ cal non-aq 30°C 100% U 1971DGb (51498)2307
K(2CdL2=Cd2L4)=3.80

Medium: benzene

C6H15O15P3 H6L Ins(1,2,6)P3 CAS 28841-62-5 (6479)
D-myo-Inositol 1,2,6-trisphosphoric acid;

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

Cd++ gl KCl 37°C 0.20M U T K1=4.39 1991LSa (51531)2308
B(Cd3L)=11.20
B(Cd2HL)=14.67

In 0.1 M But4NBr, 25 C: B1=6.12, B(CdHL)=13.61, B(CdH2L)=18.73,
B(Cd2L)=9.53

C6H15PS2 HL CAS 22689-71-0 (4395)
P,P-Dipropylphosphinodithioic acid; (CH3.CH2.CH2)2.PS.SH

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

Cd++ vlt alc/w ? 90% U B2=11.2 1972TCa (51553)2309
Medium: 90% EtOH, 0.15 M NaClO4

C6H16N04P HL CAS 387383-55-3 (8776)
N,N,N-Trimethyl-2-(phosphonmethoxy)ethylamine;

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.37 2002FGb (51570)2310

C6H16N2 L CAS 20485-44-3 (3667)
2,3-Dimethyl-2,3-diaminobutane; (CH3)2.C(NH2).C(NH2)(CH3)2

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

Cd++ gl oth/un 20°C 0.10M U TIH B2=11.24 1968POa (51592)2311
B2=11.86(I=0.5),12.25(I=1); 0 C:12.80(0.1),13.32(0.5),13.80(1.0); 40 C:9.60
(0.1),10.10(0.5),10.66(1.0). DH(B2)=6.1(?) kJ mol-1, DS=1.6(?) + 10, 30 C

C6H16N2 L Tetraheen CAS 110-18-9 (124)
N,N,N',N'-Tetramethyl-1,2-diaminoethane; (CH3)2N.CH2.CH2.N(CH3)2

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

Cd++ ISE non-aq 25°C 100% C H K1=3.1 2001CGd (51641)2312
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.
By calorimetry: DH(K1)=-35.7 kJ mol-1.

Cd++ ISE R4N.X 25°C 0.10M C K1=3.97 B2= 5.37 2001CGd (51642)2313
Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4.

Cd++ ISE KNO3 25°C 1.00M U K1=3.87 B2=5.17 1973CPd (51643)2314
B(CdHL)=1.04

C6H16N2O2 L CAS 93798-65-3 (3119)
3,6-Diaza-1,8-dihydroxyoctane; HO.CH2.CH2.NH.CH2.CH2.NH.CH2.CH2.OH

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

Cd++ gl oth/un 25°C 0.50M U K1=5.07 B2=8.87 1960HDa (51685)2315

C6H16N2O2 L CAS 929-59-4 (915)
3,6-Dioxaoctane-1,8-diamine; H2N.CH2.CH2.O.CH2.CH2.O.CH2.CH2.NH2

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

Cd++ gl R4N.X 25°C 0.10M C H K1=5.68 1975ANa (51699)2316

C6H16N2O4P2 H2L (6466)
Piperazine-1,4-diylbis(methylene)bis(phosphinic acid); H2O2P.CH2.C4H8N2.CH2.PO2H2

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

Cd++ gl NaClO4 25°C 0.10M C K1=2.16 1992LBa (51707)2317
B(CdHL)=8.66

C6H16N2S L (6464)
5-Thia-2,8-diazanonane;

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

Cd++ gl KNO3 25°C 0.10M C K1=4.40 1992WLB (51739)2318

C6H16N2S2 L (3120)
3,6-Dithiaoctane-1,8-diamine; H2N.CH2.CH2.S.CH2.CH2.S.CH2.CH2.NH2

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

Cd++ gl NaClO4 25°C 0.10M U K1=5.31 1977ASg (51757)2319

Cd++ gl KNO3 30°C 1.0M U K1=5.61 B2=8.05 1956BFc (51758)2320

C6H17N2O3P H2L (7486)
N,N,N'-Trimethyldiaminoethane-N'-methylphosphonic acid;
(CH3)2N.CH2CH2.N(CH3)CH2PO3H2

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

Cd++ gl KNO3 25°C 0.10M C K1=8.20 2001DSa (51820)2321
K(CdL+H)=5.0
K(CdL+OH)=3.1

Cd++ gl KNO3 25°C 0.10M C K1=8.20 2001DSa (51821)2322
K(CdL+H)=5.0
K(CdL+OH)=3.1

C6H17N3 L CAS 35513-87-2 (292)
1,4,9-Triazanone, 3-Azaheptane-1,7-diamine; H2NCH2CH2NHCH2CH2CH2CH2NH2

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

Cd++ gl KNO3 20°C 0.10M U K1=7.44 B2=11.48 1999LBa (51848)2323

C6H17N3 L CAS 56-18-8 (968)
1,5,9-Triazanone, 4-azaheptane-1,7-diamine; H2N.CH2.CH2.CH2.NH.CH2.CH2.CH2.NH2

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

Cd++ gl KNO3 20°C 0.10M C M 2004LBa (51890)2324
B(CdAHL)=18.40
K(CdA+HL)=5.25
B(CdAH3L)=34.93
K(CdA+H3L)=3.68

H2A is cytidine-5'-monophosphoric acid.

```

-----
Cd++      gl  KNO3   20°C 0.10M C   M           2003LbA (51891)2325
                B(CdAL)=9.71
                K(CdA+L)=7.28
                B(CdAH2L)=26.28
                K(CdA+H2L)=3.33

```

A is cytidine.

```

-----
Cd++      gl  KNO3   20°C 0.10M U           K1=6.90       1999LbA (51892)2326
                B(CdHL)=15.44
                B(CdHL2)=20.96

```

```

-----
Cd++      gl  KNO3   40°C 1.00M C T H   K1=6.61       1974DFa (51893)2327
DH(K1)=-6.1 kJ mol-1 (40 C). At 55 C: K1=6.44; 25 C: 6.85, 6.84(by polarog.)

```

```

-----
Cd++      gl  KNO3   25°C 0.10M U           K1=6.6       B2=9.50       1973AHc (51894)2328
*****
C6H17N3          L           CAS 4432-89-7 (7982)
2,5,8-Triazanonane, N,N''-Dimethyl-diethylenetriamine;

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values           Reference ExptNo
-----
Cd++      ISE non-aq 25°C 100% C   H   K1=7.51      B2=13.42     2001CGd (51904)2329
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.
By calorimetry: DH(K1)=-60.2, DH(B2)=-109.7 kJ mol-1.
*****
C6H18N2O6P2      H4L           (1363)
N,N'-Dimethyldiaminoethane-N,N'-dimethylphosphonic acid;
CH3N(CH2PO3H2).CH2.CH2.N(CH2.PO3H2)CH3

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values           Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.10M C           K1=12.48     2001DSa (51944)2330
                K(CdL+H)=5.78
                K(CdL+OH)=1.3
                K(CdHL+H)=4.9

```

```

-----
Cd++      gl  KNO3   25°C 0.10M C           K1=12.48     2001DSa (51945)2331
                K(CdL+H)=5.78
                K(CdHL+H)=4.9
                K(CdL+OH)=1.3

```

```

*****
C6H18N2O6P2      H4L           (7487)
N,N-Dimethyldiaminoethane-N',N'-dimethyldiphosphonic acid;
(CH3)2N.CH2CH2.N(CH2PO3H2)2

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values           Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.10M C           K1=12.47     2001DSa (51964)2332

```

K(CdL+H)=6.50
K(CdL+OH)=1.8
K(CdHL+H)=5.0

Cd++ gl KNO3 25°C 0.10M C K1=12.47 2001DSa (51965)2333
K(CdL+H)=6.50
K(CdHL+H)=5.0
K(CdL+OH)=1.8

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

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

Cd++ vlt NaNO3 25°C 1.00M U K1=11.45 B2=13.47 1990PIa (52067)2334

Cd++ gl KNO3 25°C 1.00M C H K1=11.12 1982ABc (52068)2335
B(CdHL)=16.67
By calorimetry: DH1=-41.0 kJ mol⁻¹, DS1=75.7

Cd++ gl diox/w 25°C 50% U K1=11.11 1979LPa (52069)2336
K(Cd+HL)=6.95

Cd++ gl diox/w 25°C 50% C K1=11.11 B2=18.06 1979MPe (52070)2337
Medium: 50% v/v dioxan/H2O, 0.1 M KNO3.

Cd++ gl alc/w 25°C 65% U I K1=12.05 1972Rba (52071)2338
Medium: 40-99% MeOH, 0.1 M NaClO4. K1(40%)=11.95; K1(99%)=13.96

Cd++ vlt alc/w 25°C 20% U I K1=13.85 B2=16.49 1969MIc (52072)2339
Medium: 0-93.5% EtOH, 0.1 M LiNO3
K1(0%)=13.86, B2(40%)=17.0, B2(60%)=17.25, B2(80%)=18.50, B2(93.5%)=18.58

Cd++ cal KNO3 25°C 0.10M U H 1965WHa (52073)2340
DH(K1)=-38.5 kJ mol⁻¹, DS=79.4 J K⁻¹ mol⁻¹

Cd++ gl KCl 25°C 0.10M U K1=10.8 1957RSb (52074)2341

Cd++ gl KNO3 40°C 1.0M U T H 1952JHa (52075)2342
B(Cd3L2)=3.07
Medium: 1 M (KNO3+KCl). B(Cd3L2)=3.19(30C), DH=-16.7 kJ mol⁻¹

Cd++ gl KCl 30°C 1.0M U T K1=10.92 1952JHa (52076)2343
40 C: K1=10.79

Cd++ vlt NaNO3 ? 0.10M U B2=13.9 1950DLa (52077)2344

Cd++ gl KCl 20°C 0.10M U K1=10.75 1950SCa (52078)2345
K(Cd+HL)=7.1

C6H18N4 L Tren CAS 4097-89-6 (817)
 2,2',2''-Triaminotriethylamine; (H2N.CH2.CH2)3N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	1.00M	C			K1=12.35	1994AGa (52177)	2346
Cd++	gl	R4N.X	25°C	0.10M	C			K1=11.72	1975JTa (52178)	2347
Cd++	nmr	oth/un	25°C	0.50M	U	M		K1=11.8 K(CdL+en)=2.83 K(CdL+Gly)=2.59	1973RBb (52179)	2348

Cd++ gl KCl 20°C 0.10M U K1=12.3 1950PSa (52180)2349

C6H19N2O9P3 H6L (8063)
 N-Methylethylenediamine-N,N',N'-trimethylenetris(phosphonic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=15.82 K(CdL+H)=6.68 K(CdH2L+H)=4.53 K(CdHL+H)=5.57 K(CdH3L+H)=3.7	2001DSa (52235)	2350

K(CdL+OH)=2.0

Cd++	gl	KNO3	25°C	0.10M	C			K1=15.82 K(CdL+H)=6.68 K(CdHL+H)=5.57 K(CdH2L+H)=4.53 K(CdH3L+H)=3.7	2001DSa (52236)	2351
------	----	------	------	-------	---	--	--	--	-----------------	------

K(CdL+OH)=2.0

C6H20N2O12P4 H8L EDTPA CAS 1429-50-1 (434)
 Ethane-1,2-bis(iminobis(methylenephosphonic acid)); ((H2O3PCH2)2NCH2.)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=16.90 K(CdL+H)=8.72 K(CdH2L+H)=5.44 K(CdHL+H)=6.93 K(CdH3L+H)=4.9	2001DSa (52302)	2352

K(CdL+OH)=1.1

Cd++	gl	KNO3	25°C	0.10M	C			K1=16.90 K(CdL+H)=8.72 K(CdHL+H)=6.93 K(CdH2L+H)=5.44	2001DSa (52303)	2353
------	----	------	------	-------	---	--	--	--	-----------------	------

K(CdH3L+H)=4.9

K(CdL+OH)=1.1

Cd++	gl	KCl	25°C	0.10M	U	K1=16.53	1980RZa (52304)2354
						K(CdL+H)=10.01	
						K(CdH2L+H)=5.99	
						K(CdHL+H)=8.04	
						K(CdH3L+H)=4.57	

Cd++	gl	KNO3	25°C	0.10M	U	K1=9.18	1979RZa (52305)2355
						K(Cd+HL)=7.41	
						K(Cd+H2L)=4.80	
						K(Cd+H3L)=4.14	
						K(Cd+H4L)=3.60	

Cd++	gl	KCl	25°C	0.10M	U	K1=13.88	1967KDa (52306)2356
						K(Cd+HL)=11.18	
						K(Cd+H2L)=8.18	
						K(Cd+H3L)=6.99	
						K(Cd+H4L)=5.45	

K(Cd+H5L)=2.77

C602C14	L	Chloranil	CAS 118-75-2	(4344)
2,3,5,6-Tetrachloro-1,4-benzoquinone;				

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	alc/w	?	100%	U	M			1969PPf (52375)2357	
								K(CdI2+L)=0.57		
								K(Cd(SCN)2+L)=3.08		

C7H4N2O7	H2L	CAS 609-99-4	(400)
3,5-Dinitrosalicylic acid; (O2N)2.C6H2(OH).COOH			

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	35°C	0.10M	U			K1=2.85	1970DDa (52451)2358	
C7H5NOS	HL	CAS 7405-23-4	(3177)							
4-Hydroxybenzothiazole;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=6.66 B2=11.96	1960FFa (52588)2359	

C7H5NO2I2	HL	(3180)
3,5-Di-iodoanthranilic acid; (3,5-di-iodo-2-aminobenzoic acid)		

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

Cd++ gl diox/w 35°C 50% U K1=2.74 B2=4.87 1956HSc (52596)2360

C7H5N04 H2L Quinolinic acid CAS 89-00-9 (567)
2,3-Pyridinedicarboxylic acid; C5H3N.(COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=4.1 B2=7.0 1958YYa (52617)2361

C7H5N04 H2L CAS 499-80-9 (566)
2,4-Pyridinedicarboxylic acid; C5H3N.(COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=4.3 B2=7.5 1958YYa (52646)2362

C7H5N04 H2L Dipicolinic aci CAS 449-83-2 (418)
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2

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

Cd++ gl KNO3 25°C 0.10M M M K1=5.31 1996AEa (52735)2363
Data for ternary complexes with aspartic acid, serine, asparagine and
N-(2-acetamido)iminodiacetic acid

Cd++ gl NaClO4 25°C 0.20M M M 1996VBa (52736)2364

K(Cd(ala)+L)=4.33
K(Cd(phe)+L)=4.08
K(Cd(tyr)+L)=4.00
K(Cd(trp)+L)=4.11

K(Cd(gly-gly)+L)=2.20, K(Cd(gly-ala)+L)=2.28, K(Cd(en)+L)=4.79.

Cd++ ISE R4N.X 25°C 1.0M U M K1=6.51 B2=10.77 1969ESb (52737)2365
B(CdLA)=13.59

A=diethylenetetramine. Medium: NH4NO3

Cd++ gl NaNO3 25°C 0.50M U M K1=6.51 B2=10.77 1968SPa (52738)2366
B(CdLA)=10.30

HA=pyridine-2-carboxylic acid

Cd++ EMF NaNO3 20°C 0.10M U K1=6.75 B2=11.15 1960ANb (52739)2367

Cd++ gl KNO3 25°C 0.10M U K1=5.7 B2=10.0 1957SYb (52740)2368

C7H5N3O2 L CAS 94-52-0 (7761)
5-Nitrobenzimidazole;

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

Cd++ gl NaNO3 25°C 0.50M M K1=1.51 1999Ksa (53098)2369

K(Cd+H-1L)=4.63

*K(CdL)=-7.46

C7H5N5O3 HL CAS 948-60-7 (6826)

2-Amino-4-oxopteridine-6-carboxylic acid;

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

Cd++ vlt NaClO4 25°C 0.15M C K1=6.72 1989EGa (53104)2370

Method: differential pulse polarography. Medium pH = 7.4.

C7H6N2 L Benzimidazole CAS 51-17-2 (52)

Benzimidazole; C7H6N2

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

Cd++ vlt alc/w 25°C 50% C K1=2.08 B2=3.69 1988CRa (53460)2371
B3=4.81

Medium: 50% MeOH/H2O

Cd++ oth none 25°C 0.0 U K1=1.93 B2=3.45 1983CRa (53461)2372
B3=4.19

Cd++ gl KNO3 25°C 0.50M U K1=1.95 B2=3.46 1981LMb (53462)2373
B3=4.56

Cd++ vlt alc/w 25°C 20% U K1=2.06 B2=3.52 1979KBc (53463)2374
K3=1.04

Cd++ vlt alc/w 25°C 50% U K1=1.93 B2=3.45 1968CRa (53464)2375
B3=4.19

Medium: 50% MeOH

C7H6N2O HL (1926)

8-Hydroxyimidazo[1,2-a]-pyridine;

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

Cd++ gl diox/w 25°C 50% C K1=6.84 B2=13.04 1993YDa (53480)2376

In 50% v/v dioxan/water. Electrolyte: 0.1M KNO3.

C7H6N2O4 H2L CAS 2683-49-0 (3753)

4-Aminopyridine-2,6-dicarboxylic acid (4-aminodipicolinic acid)

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

Cd++ gl KNO3 20°C 0.10M U K1=7.85 B2=13.63 1965ABa (53501)2377

C7H6O2 HL Salicylaldehyde CAS 90-02-8 (193)

2-Hydroxybenzaldehyde, Salicylaldehyde; HO.C6H4.CHO

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=1.60	1969HLa (53609)	2378
Cd++	gl	diox/w	25°C	50%	U			K1=4.62 B2=7.76	1949MMa (53610)	2379

C7H6O2		HL		Tropolone				CAS 533-75-5	(3129)	
2-Hydroxycyclohepta-2,4,6-trien-1-one;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	50%	U	M		K1=10.55 B2=16.50	1980KSa (53658)	2380
K(Cd(bpy)+L)=5.69										
Cd++	sp	NaClO4	25°C	0.10M	U			K1=4.60	1970HOa (53659)	2381

C7H6O2		HL		Benzoic Acid				CAS 65-85-0	(462)	
Benzenecarboxylic acid; C6H5.COOH										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	NaClO4	25°C	1.00M	C			K1=1.01 B2=1.65	19780Sa (53810)	2382
Cd++	gl	KNO3	30°C	0.40M	U			K1=1.15	1970BTa (53811)	2383
Cd++	vlt	NaNO3	30°C	0.10M	U			K1=1.08 B2=1.18	1966JGa (53812)	2384
B3=1.64										
B4=1.87										
Cd++	EMF	NaClO4	30°C	1.0M	U			K1=0.99 B2=1.76	1965VSA (53813)	2385
Method: quinhydrone electrode										
Cd++	gl	oth/un	25°C	0.10M	U			K1=1.4	1960YYa (53814)	2386

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
Cd++	gl	diox/w	30°C	0.10M	U			K1=9.18	1974AAa (53897)	2387
Cd++	vlt	alc/w	30°C	50%	U	T		K1=7.20	1967KNb (53898)	2388
Medium: 50% EtOH, 0.2 M ammonia buffer. By glass electrode: K1=7.85, K2=8.1?										

C7H6O3		H2L						CAS 1194-98-5	(4408)	
2,5-Dihydroxybenzaldehyde; (OH)2.C6H3.CHO										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo

Cd++ gl diox/w 30°C 50% U 1969VMa (53946)2389
K(Cd+HL)=3.65

Medium: 50% dioxan, 0.1 M NaClO4

C7H6O3 H2L Salicylic acid CAS 69-72-7 (14)
2-Hydroxybenzoic acid, Salicylic acid; HO.C6H4.COOH

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

Cd++ gl alc/w 25°C 100% M H K1=5.1 B2=8.4 1994MPc (54115)2390
Medium: MeOH. DH(K1)=19.6 kJ mol⁻¹; DH(B2)=26.2

Cd++ gl NaClO4 25°C 1.0M U 1989APe (54116)2391
K(Cd+H2L=CdL+2H)=-15.40
KCdL+H2L=CdL2+2H)=-16.10

Cd++ vlt NaClO4 30°C 1.0M C K1=1.46 B2= 2.23 1988GMc (54117)2392
Method: polarography.

Cd++ dis NaClO4 30°C 0.10M U 1983BAb (54118)2393
K(Cd+HL)=1.4

Cd++ vlt mixed 30°C 60% U I 1966GGa (54119)2394
K(Cd+HL)=0.90 ?
K(Cd+2HL)=1.48 ?

Medium: 60% formaldehyde, 1 M KNO3. K(Cd+HL)=0.60(0%), 0.60(20%), 0.78(40%);
K(Cd+2HL)=1.20(0%), 1.19(20%), 1.27(40%)

Cd++ vlt NaNO3 25°C 1.0M U 1963ZGa (54120)2395
K(Cd+HL)=0.96(?)

Cd++ gl KCl 20°C 0.10M U K1=5.55 1958PEe (54121)2396

C7H6O4 H3L Resorcylic acid CAS 89-86-1 (876)
2,4-Dihydroxybenzoic acid, b-Resorcylic acid; C6H3(OH)2.COOH

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

Cd++ gl alc/w 25°C 50% M M K1=6.80 1983ADb (54511)2397
K(Cd(phen)+L)=6.50

Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.

C7H6O4 H3L Protocatechuic CAS 99-50-3 (875)
3,4-Dihydroxybenzoic acid; C6H3(OH)2.COOH

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

Cd++ gl NaClO4 25°C 0.20M M M K1=7.691 B2=13.05 1994VBc (54651)2398
B(Cd(ala)L)=11.572
B(Cd(phe)L)=11.538

B(Cd(Tyr)L)=11.588

B(Cd(Trp)L)=11.767

B(Cd(gly-gly)L)=9.824, B(Cd(gly-ala)L)=9.836.

Cd++ gl NaClO4 30°C 0.10M U K1=7.97 B2=12.72 1966APb (54652)2399

C7H6O6S H3L CAS 5965-83-3 (399)
5-Sulfosalicylic acid, 2-Hydroxy-5-sulfobenzoic; H03S.C6H3(OH).COOH

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

Cd++ gl oth/un 20°C 0.10M U K1=4.65 1958PEe (54918)2400

Cd++ sp oth/un 15°C 0.25M U K1=16.68 B2=29.08 1958RCa (54919)2401

Cd++ vlt oth/un 25°C 1.0M U B2=1.97 1957GLc (54920)2402

C7H7N L CAS 100-69-6 (299)
2-Vinylpyridine; C5H4N.CH:CH2

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

Cd++ gl KNO3 25°C 0.10M U K1=1.1 1974ILa (55115)2403

C7H7N L CAS 100-43-6 (294)
4-Vinylpyridine; C5H4N.CH:CH2

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

Cd++ gl KNO3 25°C 0.10M U K1=1.6 1974ILa (55123)2404

C7H7NO L CAS 350-03-8 (1479)
3-Acetylpyridine; C5H4N.CO.CH3

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

Cd++ gl KNO3 25°C 0.50M U K1=0.89 B2=1.83 1986BLa (55138)2405

C7H7NO L CAS 1122-54-9 (494)
4-Acetylpyridine; C5H4N.CO.CH3

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

Cd++ dis non-aq 25°C 100% U 1989STa (55145)2406

K(CdCl2A2+L=CdCl2AL+A)=-0.60
K(CdCl2AL+L=CdCl2L2+A)=-1.1
K(CdBr2A2+L=CdBr2AL+A)=-0.53
K(CdBr2AL+L=CdBr2L2+A)=-1.80

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++ dis NaCl 25°C 0.10M U 1984SMa (55146)2407
K(R2CdCl4+L=RCdCl3L+RC1)=-1.02
K(RCdCl3L+L=CdCl2L2+RC1)=-3.89

R = N(Bu)4

Cd++ gl KNO3 25°C 0.50M U K1=1.15 B2=1.81 1983LRa (55147)2408

C7H7NO2 HL Anthranilic CAS 118-92-3 (1589)
2-Aminobenzoic acid, Anthranilic acid; H2N.C6H4.COOH

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

Cd++ gl KNO3 30°C 0.10M U M K1=1.89 1989BBg (55199)2409
K(CdA+L)=2.59
B(CdAL)=10.29

H2A is 8-hydroxyquinoline-5-sulfonic acid.

Cd++ gl oth/un 25°C 0.0 U 1960LUa (55200)2410
Kso=-8.39

Cd++ gl oth/un 25°C ->0 U K1=1.83 1958LUa (55201)2411

Cd++ gl diox/w 35°C 50% U K1=3.0 1958YSa (55202)2412

C7H7NO2 H2L Salicylaldoxime CAS 94-67-7 (1486)
2-Hydroxybenzaldehyde oxime; HO.C6H4.CH:N.OH

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

Cd++ gl alc/w 20°C 50% U 1959HOa (55300)2413
K(Cd+HL) < 4.4

C7H7NO2 HL 2-Pyridylacetic CAS 16179-97-8 (2211)
2-Pyridylethanoic acid; C5H4N.CH2.COOH

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

Cd++ vlt NaNO3 20°C 1.00M C K1=2.10 B2=3.72 1980COa (55345)2414

C7H7NO2 HL CAS 39825-16-6 (3756)
4-Methyl-2-nitrosophenol; CH3.C6H3(N:O).OH

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

Cd++ gl diox/w 25°C 50% U K1=4.59 1961SHa (55404)2415
Medium: 50% dioxan, 0.1 M KNO3

C7H7NO2 HL CAS 3222-47-7 (3154)
6-Methylpyridine-2-carboxylic acid; CH3.C5H3N.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	20°C	0.10M	U			K1=4.40 B2=7.65	1960ANb (55422)	2416

C7H7NO2			HL					CAS 495-18-1	(184)	
Benzohydroxamic acid; C6H5.CO.NH.OH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	M	M		K1=3.81 B2= 7.55	1996KSc (55486)	2417
K(Cd(nta)+L)=3.09										
K(Cd(ida)+L)=3.46										
K(Cd(ada)+L)=3.38										
H2ada: N-(2-acetamido)iminodiethanoic acid.										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	50%	U			K1=10.02 B2=19.17	1994JBb (55487)	2418
Medium: 50% v/v dioxane/H2O, 0.10 M NaCl04.										

C7H7NO3			H2L					CAS 89-73-6	(204)	
2-Hydroxybenzohydroxamic acid (salicylhydroxamic acid); HO.C6H4.CO.NHOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=4.90	2000KHa (55581)	2419
Cd++	gl	NaNO3	25°C	0.10M	M	M		K1=4.87 B2= 6.83	1996KSc (55582)	2420
K(Cd(nta)+L)=2.09										
K(Cd(ida)+L)=3.80										
K(Cd(ada)+L)=3.77										
K(Cd(ada)+H+L)=11.77										
H2ada: N-(2-acetamido)iminodiethanoic acid.										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
C7H7NO3			HL					CAS 548-93-6	(3156)	
3-Hydroxyanthranilic acid (2-Amino-3-hydroxybenzoic acid)										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	20°C	?	U			K1=4.3	1959SIb (55624)	2421

C7H7NO3			HL					CAS 1197-10-0	(3759)	
6-(Hydroxymethyl)pyridine-2-carboxylic acid; HO.CH2.C5H3N.CO0H										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	?	U			K1=4.81 B2=8.10	1962GOa (55648)	2422

C7H7NO5S			H2L					CAS 3577-63-7	(3181)	
5-Sulfoanthranilic acid; (5-sulfo-2-aminobenzoic acid)										

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

Cd++ gl oth/un 35°C 0.01M U K1=2.84 B2=5.23 1956HSb (55673)2423

Cd++ gl diox/w 35°C 50% U K1=3.41 B2=5.05 1956HSb (55674)2424

C7H7N2O2F3S HL CAS 73255-69-3 (559)
2-(Trifluoromethanesulfonamidomethyl)pyridine; C5H4NCH2S(:O)2NHCF3

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

Cd++ gl diox/w 30°C 45% U K1=6.10 B2=11.10 1982MYb (55712)2425
Medium: 45% v/v dioxan/H2O, 0.01 M KNO3

C7H7N3 L CAS 934-32-7 (8240)
2-Aminobenzimidazole;

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

Cd++ gl KNO3 25°C 0.50M U K1=1.80 B2= 3.10 1990LGb (55723)2426

C7H7N3 L (6358)
7-Methyl-4-azabenzimidazole;

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

Cd++ gl NaClO4 25°C 0.10M C K1=1.98 1992RKa (55730)2427

C7H8N2O HL CAS 5451-39-8 (3157)
2-Acetylpyridine oxime; C5H4N.C(:N.OH).CH3

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

Cd++ gl NaCl 25°C 0.10M C 2003SSa (55797)2428

B(0,1,1)=2.370
B(-1,1,1)=-5.558
B(-1,1,2)=-2.921
B(-2,1,2)=-11.724

B(p,q,r): pH+qM+rHL=HpMq(HL)r. B(-3,2,2)=-17.44.

C7H8N2O L (2035)
3-N-Acetylaminoazine; C5H4N.NH.CO.CH3

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

Cd++ gl KNO3 25°C 0.50M U K1=1.37 B2=2.44 1981LRa (55809)2429
B3=3.38

C7H8N2O HL CAS 1195-40-0 (5749)
6-Methylpyridine-2-carboxaldehyde oxime;

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

Cd++ gl NaCl 25°C 0.10M C 2003SSa (55815)2430

B(-1,1,1)=-5.714
B(-2,1,2)=-11.486
B(-3,2,2)=-17.37

B(p,q,r): pH+qM+rHL=HpMq(HL)r.

C7H8N2O3S H2L (3783)

2-Ethylthio-1H-1,3-diazin-4-one-5-carboxylic acid;

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

Cd++ gl KCl 25°C 0.10M U 1961TDb (55932)2431

K(Cd+HL)=1.98

C7H8N2O3S HL (4467)

5-Carbethoxy-2-thiouracil (5-carbethoxy-4-hydroxy-2-mercaptopyrimidine);

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

Cd++ gl oth/un 25°C 0.01M U T K1=3.52 B2=7.17 1970Gwa (55936)2432

K1(35.4 C)=3.50, K1(44.9 C)=3.67, K2(35.4 C)=3.72, K2(44.9 C)=3.96

C7H8N2S HL Phenylthiourea CAS 103-85-5 (625)

1-Phenyl-2-thiourea; C6H5.NH.CS.NH2

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

Cd++ vlt KNO3 25°C 0.10M C K1=1.94 1988ECa (55940)2433

Method: differential pulse polarography, using anodically generated Hg++
as indicator ion.

Cd++ vlt alc/w 20°C 15% U I K1=0.80 B2=1.20 1982Mca (55941)2434

B3=2.3

B4=2.6

Medium: 15% w/w EtOH/H2O, 0.2 M LiClO4. Also data for 0.2, 0.4, 0.6 mol fr.

Cd++ ISE mixed 25°C 82% U K1=4.10 B2=4.60 1979MTc (55942)2435

Medium: 82% formamide

Cd++ ISE mixed 25°C 82% U K1=3.18 B2=3.68 1979TBb (55943)2436

B3=4.25

Medium: 82% formamide

C7H8N4 L (2641)

4,4'-(5,5')-Bisimidazolymethane; C3H3N2.CH2.C3H3N2

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

Cd++ gl KNO3 30°C 0.16M U K1=5.50 B2=10.05 1965DFa (55963)2437

C7H8N4 L (1928)
Bis(imidazol-2-yl)methane; C3H3N2.CH2.C3H3N2

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

Cd++ gl KNO3 35°C 0.20M U M 1990RMa (55991)2438

K(CoL2+Gly)=3.05
K(CoL2+Ala)=3.11
K(CoL2+Val)=2.91
K(CoL2+norVal)=2.80

K(CoL2+Leu)=2.91, K(CoL2+norLeu)=2.90, K(CoL2+Phe)=2.87
K(CoL2+Trp)=3.12, K(CoL2+Ser)=2.72, K(CoL2+Thr)=2.81

Cd++ gl KNO3 35°C 0.20M U M K1=4.94 B2=9.33 1989RVa (55992)2439

C7H8O5S H3L CAS 7134-11-4 (3160)
4-Hydroxy-3-methoxybenzenesulfonic acid; HO.C6H3(OCH3).SO3H

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

Cd++ vlt oth/un 25°C 1.0M U K1=3.2 1957GLc (56158)2440

C7H9N L 2,4-Lutidine CAS 108-37-4 (319)
2,4-Dimethylpyridine; C5H3N.(CH3)2

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

Cd++ dis non-aq 25°C 100% U 1993SSe (56196)2441

K(CdCl2A2+L=CdCl2AL+A)=0.92
K(CdCl2A2+2L=CdCl2L2+2A)=-0.33
K(CdBr2A2+L=CdBr2AL+A)=0.50
K(CdBr2A2+2L=CdBr2L2+2A)=-0.43

A=trioctylphosphine. Medium: 1,2-dichloroethane

C7H9N L 2,6-Lutidine CAS 108-44-1 (723)
2,6-Dimethylpyridine; C5H3N.(CH3)2

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

Cd++ dis non-aq 25°C 100% U H 1993SSe (56217)2442

K(CdCl2A2+L=CdCl2AL+A)=-1.03
K(CdCl2A2+2L=CdCl2L2+2A)=-3.53
K(CdBr2A2+L=CdBr2AL+A)=-1.16
K(CdBr2A2+2L=CdBr2L2+2A)=-3.72

A=trioctylphosphine. Medium: 1,2-dichloroethane. DH(CdCl2L2)=11 kJ mol⁻¹;
DH(CdBr2L2)=1 kJ mol⁻¹.

C7H9N L CAS 100-71-0 (721)

2-Ethylpyridine; C5H4N.C2H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	dis	non-aq	25°C	100%	U				1989STa (56226)	2443
									K(CdCl2A2+L=CdCl2AL+A)=0.36	
									K(CdCl2AL+L=CdCl2L2+A)=-2.07	
									K(CdBr2A2+L=CdBr2AL+A)=-0.20	
									K(CdBr2AL+L=CdBr2L2+A)=-1.79	

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++	dis	NaCl	25°C	0.10M	U				1984SMa (56227)	2444
									K(R2CdCl4+L=RCdCl3L+RCl)=-1.00	
									K(RCdCl3L+L=CdCl2L2+RCl)=-4.07	

R = N(Bu)4

C7H9N L 2-Methylaniline CAS 95-53-4 (3133)
 2-Methylaminobenzene (o-Toluidine); CH3.C6H4.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.30M	U			K1=-0.10	1964NAe (56238)	2445

C7H9N L 3,4-Lutidine CAS 583-58-4 (2056)
 3,4-Dimethylpyridine; C5H3N.(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C	I		K1=1.84 B2=2.32 B3=3.72	1979EBa (56253)	2446

In 0.5 M KNO3, K1=1.79, B2=2.91, B3=3.62

Cd++	gl	KNO3	25°C	0.50M	U			K1=1.65 B2=2.91 B3=3.77 B4=4.25	1979LRa (56254)	2447
------	----	------	------	-------	---	--	--	---------------------------------	-----------------	------

Cd++	gl	alc/w	30°C	25%	U			K1=1.60 B2=2.65 B3=3.31	1975VUa (56255)	2448
------	----	-------	------	-----	---	--	--	-------------------------	-----------------	------

C7H9N L 3,5-Lutidine (323)
 3,5-Dimethylpyridine; C5H3N.(CH3)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.50M	C			K1=1.74	2002KSb (56278)	2449

Cd++	gl	KNO3	25°C	0.10M	C	I		K1=1.56 B2=2.33	1979EBa (56279)	2450
------	----	------	------	-------	---	---	--	-----------------	-----------------	------

In 0.5 M KNO3, K1=1.78, B2=2.22

Cd++	gl	alc/w	30°C	25%	U			K1=1.51 B2=2.35	1975VUa (56280)	2451
------	----	-------	------	-----	---	--	--	-----------------	-----------------	------

B3=2.77

C7H9N L 3-Ethylpyridine CAS 536-78-7 (2038)
3-Ethylazine, 3-Ethylpyridine; C5H4N.C2H5

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

Cd++ gl KNO3 25°C 0.50M U K1=1.53 B2=2.69 1981LRa (56295)2452
B3=3.47
B4=3.87

Cd++ gl KNO3 25°C 0.10M C I K1=1.44 B2=2.38 1979EBa (56296)2453
In 0.5 M KNO3, K1=1.47, B2=2.51

C7H9N L 4-Ethylpyridine CAS 536-75-4 (2055)
4-Ethylazine, 4-Ethylpyridine; C5H4N.C2H5

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

Cd++ gl KNO3 25°C 0.10M C I K1=1.68 B2=1.93 1979EBa (56321)2454
B3=3.40
In 0.5 M KNO3, K1=1.69, B2=2.54, B3=3.46

Cd++ gl KNO3 25°C 1.00M U K1=1.56 B2=2.73 1979LRa (56322)2455
B3=3.53
B4=3.95

Cd++ gl alc/w 30°C 25% U K1=1.48 B2=2.27 1975VUa (56323)2456
B3=2.83

C7H9N L 4-Methylaniline CAS 106-49-0 (754)
4-Methylaniline (4-Toluidine); CH3.C6H4.NH2

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

Cd++ ISE KNO3 25°C 0.30M U K1=0.26 B2=-0.01 1964NAe (56340)2457

C7H9NO L o-Anisidine CAS 90-04-0 (2474)
2-Methoxyaniline; CH3O.C6H4.NH2

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

Cd++ ISE KNO3 25°C 0.30M U K1=0.05 B2=-0.35 1964NAe (56386)2458

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

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

Cd++ ISE KNO3 25°C 0.30M U K1=0.45 B2=0.32 1964NAe (56394)2459

B3=0.16

C7H9NO2 L CAS 1195-59-1 (2754)
2,6-Di(hydroxymethyl)pyridine; C5H3N.(CH2OH)2

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

Cd++ vlt NaNO3 20°C 0.50M U K1=10.3 1974CPb (56406)2460
K(Cd+HL+L)=13.1
K(Cd+HL)=6.04
K(Cd+H2L)=1.90
K(Cd+2H2L)=2.60

K(Cd+2HL)=10.4

C7H9N5O4 HL CAS 215525-73-8 (7724)
N-(4-Amino-1,6-dihydro-1-methyl-5-nitroso-6-oxo-pyrimidin-2-yl)glycine;

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

Cd++ gl KCl 35°C 0.10M C K1=5.44 B2= 7.47 1998ALa (56522)2461

C7H10N2 L CAS 13173-22-3 (8012)
1-Allyl-2-methylimidazole ;

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

Cd++ gl KNO3 25°C 0.50M C K1=2.40 B2= 4.10 2001KGa (56561)2462
B3=5.10

C7H10N2 L CAS 42088-91-5 (3134)
2-(Methylaminomethyl)pyridine (2-Picolylmethylamine)

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

Cd++ gl KNO3 25°C 0.50M U K1=4.49 B2=7.84 1971GEa (56605)2463

Cd++ vlt diox/w 25°C 50% U H B2=8.54 1966WRb (56606)2464
Medium: 50% dioxan, 0.1 M KNO3. By calorimetry: DH(B2)=-41.8 kJ mol⁻¹,
DS=23 J K⁻¹ mol⁻¹

Cd++ gl oth/un 20°C ->0 U T H K1=4.60 B2=8.13 1959GFa (56607)2465
DH(K1)=-20.5 kJ mol⁻¹, DS=17 J K⁻¹ mol⁻¹ (at 10 C). 10 C: K1=4.60;
30 C: K1=4.30, K2=3.56; 40 C: 4.30, 3.28

C7H10N2 L CAS 20173-04-0 (2039)
3-(N,N-Dimethylamino)pyridine; C5H4N.N(CH3)2

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

Cd++ gl KNO3 25°C 0.50M U K1=1.52 B2=2.62 1981LRa (56621)2466

B3=3.50

B4=4.16

C7H10N2 L CAS 6627-60-7 (3729)

6-Methyl-2-(aminomethyl)pyridine; CH3.C5H3N.CH2.NH2

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

Cd++ EMF NaNO3 20°C 0.10M U K1=4.35 B2=7.35 1971ANa (56652)2467

Cd++ vlt diox/w 25°C 50% U H B2=7.07 1966WRb (56653)2468
Medium: 50% dioxan, 0.1 M KNO3. By calorimetry: DH(B2)=-25.1 kJ mol⁻¹,
DS=51.4 J K⁻¹ mol⁻¹

C7H10N2O5 HL CAS 51-52-5 (4468)

6-Propyl-2-thiouracil (6-propyl-4-hydroxy-2-mercaptopyrimidine);

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

Cd++ gl oth/un 25°C 0.01M U T K1=4.16 B2=8.65 1970Gwa (56676)2469
K1(35 C)=3.86, K1(44.9 C)=3.83, K2(35 C)=4.80, K(44.9 C)=4.27

C7H10N2O2S HL (560)
2-(Methanesulfonamidomethyl)pyridine; C5H4N.CH2S(:O)2NHCH3

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

Cd++ gl KNO3 30°C 0.1M U K1=5.58 B2=10.17 1982MYb (56682)2470
In 45% v/v dioxan/H2O, 0.01 M KNO3 K1=7.01, B2=12.94

C7H10N2O3S HL CAS 71691-06-0 (1247)
2-(N-Pyrrolideneimino)ethane sulfonic acid; C4H4N.CH:N.CH2.CH2.SO3H

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

Cd++ gl NaClO4 25°C 0.10M U T K1=7.85 1979GSa (56691)2471

C7H10O4 H2L CAS 5164-76-1 (959)
Pent-1-ene-5-dioic acid; CH2:CH.CH2.CH2.CH(COOH)2

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

Cd++ gl KNO3 25°C 0.10M C K1=2.39 1975IPa (56744)2472

C7H11NO2 HL CAS 54162-90-2 (6019)
2-Aminocyclohexene(4)-1-carboxylic acid;

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

Cd++ gl NaClO4 25°C 0.50M C K1=3.42 B2=6.30 1986GGa (56767)2473

$$B(\text{CuH-1L}) = -6.28$$

cis isomer

C7H11N04 H2L CAS 16598-06-4 (965)

N-(Prop-2-enyl)iminodiethanoic acid; CH2:CH.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M C K1=5.76 B2=12.20 1975IPa (56785)2474

C7H11N04 H2L CAS 5626-40-4 (2803)

N-Carboxymethylpyrrolidine-2-carboxylic acid; HOOC.C4H7N-CH2COOH

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

Cd++ gl KNO3 25°C 1.00M U K1=7 B2=12 1974MIb (56793)2475

C7H11N05 H2L (3164)

1-Amino-2-propanone-N,N-diethanoic acid; CH3.CO.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=6.77 B2=10.90 1965AUa (56825)2476

Previously published as K1=6.84, K2=4.12

Cd++ gl KNO3 25°C 0.10M U K1=6.9 B2=11.0 1963ANa (56826)2477

C7H11N06 H3L CAS 40199-58-4 (3165)

N-(2'-Carboxyethyl)iminodiethanoic acid; HOOC.CH2.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=8.26 1973KUb (56869)2478

Cd++ vlt KNO3 25°C 0.10M U K1=8.37 1973KUb (56870)2479

K(Cd+HL)=2.10

K(Cd+HL) by glass electrode

Cd++ gl KNO3 25°C 0.10M U K1=8.24 1967UKa (56871)2480

K(Cd+HL)=2.15

Cd++ gl KCl 30°C 0.10M U K1=7.5 1953CMA (56872)2481

C7H11N06 H3L MNTA (1026)

Nitrilo(2-propanoic)-diethanoic acid; HOOC.CH(CH3).N(CH2.COOH)2

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

Cd++ gl KNO3 20°C 0.10M U K1=10.61 1974RMF (56900)2482

C7H11N06P2 H4L DPHP (226)
 2,6-bis(Dioxyphosphorylmethyl)pyridine; C5H3N.(CH2.P03H2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	U			K1=8.54 K(Cd+HL)=5.19 K(Cd+H2L)=3.34	1988KPa (56927)	2483

 C7H11N3 L CAS 63763-86-0 (6062)
 2,6-Di(aminomethyl)pyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	20°C	1M	C			K1=7.60 B2=14.21	1992CPb (56956)	2484

 C7H11N302 L CAS 7389-87-9 (3162)
 Histidine methyl ester

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	oth/un	25°C	?	U			K1=4.6 B2=8.1	1966PAa (56997)	2485
Cd++	gl	KNO3	25°C	0.16M	U			K1=3.98 B2=6.79 K3=1	1965CMA (56998)	2486

 Cd++ vlt KNO3 45°C 0.10M U T H B2=7.10 1964ARa (56999)2487
 B2=8.34(0 C),7.42(25 C). At 0 C: DH(B2)=-46.8 kJ mol-1, DS=-12.5 J K-1 mol-1

C7H12N2 L (1420)
 4,5-Diethyl-1,3-diazole; C3H2N2.(C2H5)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=2.18	1982LKB (57045)	2488

 C7H12N202 HL (6181)
 2-(N-2-Pyrrolidimino)propanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	U	TIH		B2=9.28	1988GRb (57072)	2489

 C7H12N203 HL Gly-Pro CAS 704-15-4 (257)
 Glycyl-proline; H2N.CH2.CO.NC4H7.CO0H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	20°C	0.20M	U			K1=3.25 B2=5.72	1982RRd (57114)	2490

 C7H12N2O3 HL Pro-Gly CAS 2578-97-6 (262)
 Prolyl-glycine; C4H8N.CO.NH.CH2.COOH

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

 Cd++ gl KCl 20°C 0.20M U K1=3.06 B2=5.26 1982RRd (57146)2491

C7H12N2O5 H2L Gly-Glu CAS 7412-78-4 (280)
 Glycyl-glutamic acid; H2N.CH2.CO.NH.CH(CH2.CH2.COOH).COOH

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

 Cd++ gl KNO3 25°C 0.10M C K1=3.426 B2=10.68 2002FBa (57170)2492
 B(CdHL)=9.99
 K(CdL+H)=6.564
 K(Cd+HL)=1.617

 Cd++ gl KNO3 20°C 0.10M U K1=7.08 B2=10.68 1980BBc (57171)2493

C7H12N3O5P H2L P MEC CAS 117087-39-5 (8366)
 1-[2-(Phosphonomethoxy)ethyl]cytosine;

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

 Cd++ gl NaNO3 25°C 0.10M M K1=3.00 B2=10.68 1999BHb (57197)2494
 K(Cd+HL)=1.40
 K(CdL+H)=5.35

 C7H12O4 HL CAS 96740-23-7 (2249)
 1,5-Dimethoxy-pent-2,4-dione, CH3.O.CH2.CO.CH2.CO.CH2.O.CH3

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

 Cd++ gl diox/w 24°C 50% U K1=3.9 B2=10.68 1979ACa (57286)2495

C7H12O4 H2L Pimelic acid CAS 111-16-0 (985)
 1,7-Heptanedioic acid; HOOC.(CH2)5.COOH

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

 Cd++ gl KNO3 25°C 0.10M C K1=1.76 B2=10.68 1975LPa (57303)2496

C7H12O4 H2L CAS 534-59-8 (480)
 Butylpropanedioic acid (Butylmalonic acid); HOOC.CH(C4H9).COOH

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

 Cd++ gl KNO3 25°C 0.10M C K1=2.66 B2=10.68 1975IPa (57331)2497

C7H12O4 H2L CAS 510-20-3 (482)
Diethylpropanedioic acid (Diethylmalonic acid); HOOC.C(C2H5)2.COOH

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

Cd++ gl NaClO4 25°C 0.10M U K1=2.54 19700Va (57354)2498

C7H13NO2 HL CAS 103067-99-4 (1127)
2-Amino-hept-6-enoic acid; CH2:CH.CH2.CH2.CH2.CH(NH2).COOH

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

Cd++ gl KNO3 25°C 0.10M U K1=3.75 B2=7.13 1975IPb (57436)2499

C7H13NO2 HL CAS 5691-19-0 (4449)
2-Aminocyclohexanecarboxylic acid; H2N.C6H10.COOH

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

Cd++ gl NaClO4 25°C 0.50M C K1=3.638 B2=6.922 1986GGa (57444)2500
B(CdH-1L)=-5.76
cis isomer. For trans isomer K1=2.95, B2=6.09, B(CdH-1L)=-6.29

C7H13NO3S H2L CAS 59-53-0 (1269)
N-Acetyl-penicillamine; CH3.CO.NH.CH(COOH)C(CH3)2SH

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

Cd++ gl KNO3 25°C 0.20M C K1=7.53 B2=14.11 1990KUa (57485)2501
B3=17.44
B(Cd3L4)=35.99

Cd++ gl KNO3 25°C 0.10M M M 1990SHd (57486)2502
K(Cd(nta)+L)=5.48

Cd++ gl KNO3 25°C 0.20M C K1=7.33 B2=14.11 1986SVa (57487)2503
B3=17.44
B(Cd3L4)=35.99

C7H13NO4 H2L CAS 16578-07-5 (341)
N-Propyliminodiethanoic acid; CH3.CH2.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M C K1=6.97 B2=12.54 1975IPa (57525)2504

C7H13NO4S HL (6310)
Acetylacetone-2-aminoethane sulfonic acid schiff base;
CH3.CO.CH2.C(CH3):N.CH2.CH2.HSO3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	diox/w	25°C	50%	U T H		K1=5.85	19760Ma (57534)	2505

C7H13NO4S			H2L				(3184)		
N-(2-Methylthioethyl)iminodiethanoic acid; CH3.S.CH2.CH2.N(CH2.COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	KNO3	20°C	0.10M	U		K1=7.89 B2=13.27	1955SAa (57542)	2506

C7H13NO5			H2L				CAS 62117-07-1	(3171)	
N-(2-Methoxyethyl)iminodiethanoic acid; CH3.O.CH2.CH2.N(CH2.COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	KNO3	20°C	0.10M	U		K1=7.53 B2=13.18	1955SAa (57570)	2507

C7H13NO5			H2L				CAS 59881-62-1	(339)	
N-(3-Hydroxypropyl)iminodiethanoic acid; HO.(CH2)3.N(CH2.COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	KCl	30°C	0.10M	U		K1=6.2 B2=10.9	1954CMa (57586)	2508

C7H13NO5			H2L				CAS 41433-03-8	(4451)	
N-(Carboxymethyl)-N-(2'-hydroxyethyl)alanine;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	EMF	KNO3	20°C	0.10M	U		K1=7.56 B2=12.80	1968MRb (57594)	2509

C7H13NO6			H2L				CAS 32013-58-4	(6079)	
N-(2,3-Dihydroxypropyl)iminodiethanoic acid; HO.CH2.CH(OH).CH2.N(CH2.COOH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	KNO3	20°C	0.10M	U		K1=7.26 B2=12.17	1980MRc (57605)	2510

C7H14N2O3			L	Ala-Ala-OMe			CAS 105328-90-3	(2551)	
Alanyl-alanine methyl ester; H2N.CH(CH3).CO.NH.CH(CH3).CO2.CH3									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	g/l	KNO3	25°C	0.20M	C		K1=3.49 B2=6.79	1990KUa (57710)	2511

C7H14N2O3S			HL	Gly-Met			CAS 554-94-9	(726)	
Glycyl-methionine; H2N.CH2.CO.NH.CH(CH2.CH2.S.CH3).COOH									

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

Cd++ gl KNO3 25°C 0.20M C K1=2.82 B2= 5.06 1986SVa (57791)2512

C7H14N4O4P H2L CAS 550359-20-1 (9059)
[[2-(4-Amino-2-imino-1(2H)-pyrimidinyl)ethoxy]methyl]phosphonic acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.45 2003FHa (57839)2513

C7H15N04 HL CAS 41244-51-3 (4459)
N,N-Bis(2'-hydroxyethyl)alanine; (HO.CH2.CH2)2.N.CH(CH3)COOH

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

Cd++ EMF KNO3 20°C 0.10M U K1=4.97 1968MRb (57930)2514

C7H15N05 L CAS 3329-30-4 (564)
2-Methylamino-2-deoxyglucose;

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

Cd++ gl NaNO3 30°C 0.10M U K1=2.9 1979MNa (57972)2515

C7H15N07 HL (6519)
2-Amino-2-deoxy-D-glycero-D-gulo-heptonic acid;HOOC.CH(NH2).(CHOH)4.CH2OH

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

Cd++ gl NaClO4 25°C 0.10M U K1=4.25 B2=11.33 1992DGa (58002)2516
B(CdHL)=11.97

C7H15N07 HL (7135)
2-Amino-2-deoxy-D-glycero-L-glucoheptonic acid; HOOCCH(NH2)(CHOH)4CH2OH

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

Cd++ gl KNO3 25°C 0.10M C K1=4.20 B2=8.05 1995DFc (58008)2517
B(CdH-1L)=-7.40

C7H15NS2 HL CAS 25179-61-7 (3175)
N,N-Di-n-propyldithiocarbamic acid; (CH3.CH2.CH2)2.N.CS.SH

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

Cd++ vlt mixed RT 50% C 1986HSd (58016)2518
B3=20.03

Medium: 50% v/v DMF/H2O. Method: polarography.

C7H15N2O7P H4L (7887)

1,2-Diaminoethane-N,N'-dicarboxymethane-N-methylenephosphonic acid;

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

Cd++ gl KNO3 ? 0.10M U K1=5.75 1991TMb (58020)2519
K(Cd+HL)=4.19

room temperature

C7H16N2 L CAS 86849-08-3 (3136)

trans-Cycloheptane-1,2-diamine; C7H12(NH2)2

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

Cd++ gl oth/un 10°C ->0 U K1=5.88 B2=10.80 1958BFa (58044)2520

C7H16N2O L (6586)

1-Oxa-4,8-diazacyclodecane;

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

Cd++ gl NaNO3 25°C 0.10M U K1=4.06 1990HWa (58055)2521

C7H16N2S L (6463)

1-Thia-4,8-diazacyclodecane;

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

Cd++ gl KNO3 25°C 0.10M C K1=6.50 1992WLb (58065)2522

C7H16S L CAS 26158-99-6 (5696)

Pentyl-ethylsulfide; C2H5.S.C5H11

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

Cd++ ISE non-aq 25°C 100% U K1=0.35 B2=0.53 1986MMb (58094)2523

Medium: acetone, Bu4NC104

C7H17NO2 L (6450)

N,N-Di(2-hydroxypropyl)methylamine; CH3.N(CH2.CH(OH).CH3)2

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

Cd++ gl oth/un 25°C ? C K1=2.53 1991DMa (58105)2524

C7H17N3 L (101)

1,4,7-Triazacyclodecane; cyclo(.NHCH2CH2NHCH2CH2NHCH2CH2CH2.)

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

Cd++ gl NaClO4 25°C 0.20M M H K1=7.8 1978KKb (58222)2525

DH1=-31.8 kJ mol⁻¹

C7H19N3 L Spermidine CAS 124-20-9 (13)
1,5,10-Triazadecane, 4-Azaoctane-1,8-diamine; H2N.(CH2)3.NH.(CH2)4.NH2

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

Cd++ gl KNO3 20°C 0.10M C M 2003Lba (58306)2526
B(CdAH2L)=26.74
K(CdA+H2L)=3.53

A is cytidine.

Cd++ gl KNO3 20°C 0.10M U K1=4.82 B2= 8.92 1999Lba (58307)2527
B(CdH2L2)=28.39

C7H19N3 L CAS 1985-81-5 (969)
4-Aza-4-methylheptane-1,7-diamine; H2N.(CH2)3.N(CH3).(CH2)3.NH2

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

Cd++ gl none 10°C 0.0 U T H K1=6.09 1959GFb (58319)2528
20 C, K1=5.97; 30 C, K1=5.87; 40 C, K1=5.75. DH(K1)=-19.4 kJ mol⁻¹, DS=50

C7H20N4 L (3012)
N,N-Bis(2-aminoethyl)-1,3-diaminopropane; N(CH2CH2NH)2CH2CH2CH2NH2

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

Cd++ gl KCl 25°C 0.10M C K1=9.74 2003KDa (58366)2529

C8H5N5O6 H3L Murexide (453)
Purpuric acid (Murexide is ammonium salt);

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

Cd++ sp non-aq 25°C 100% U TIH K1=5.91 B2=10.56 1995GSa (58479)2530
Medium: 10% w/w MeCN/DMSO. DH(K1)=-15.6 kJ mol⁻¹, DS=61 J K⁻¹ mol⁻¹
DH(K2)=-21.9, DS=-21.9

Cd++ vlt oth/un 25°C 0.10M C K1=3.98 1982Gwa (58480)2531
Medium: (CH2)6N4 buffer solution, pH 6.55

Cd++ sp oth/un 25°C 0.10M U 1949SGa (58481)2532
K(Cd+H2L)=4.2

C8H6N2O2 HL (6681)
9-Hydroxy-pyrido(1,2-a)pyrimidin-4-one;

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

Cd++ gl KNO3 25°C 0.10M C K1=4.94 B2=10.60 1993YDa (58787)2533
Data also in 50% v/v dioxan/water. Electrolyte: 0.1M KNO3.
B1= 5.90, B2= 11.83.

C8H6O4 H2L Phthalic acid CAS 88-99-3 (113)
Benzene-1,2-dicarboxylic acid; C6H4(COOH)2

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

Cd++ gl NaNO3 25°C 0.10M C K1=2.78 B2= 4.76 1996Vda (58929)2534
B(CdHL)=6.90
B(CdH-2L2)=-11.3

By DPP: K1=1.81, B2=5.02, B3=9.3.

Cd++ vlt NaNO3 25°C 1.0M C M K1=1.75 B2= 2.33 1992KIa (58930)2535
B3=3.25
B(Cd(imidazole)L2)=4.55
B(Cd(imidazole)L)=3.95
B(Cd(imidazole)2L)=6.10

Method: polarography. Medium: pH 8.0.
Data for many other ternary complexes with imidazole.

Cd++ ISE NaClO4 25°C 1.00M C K1=2.78 B2=4.01 19780Sa (58931)2536
B(CdHL)=5.36
B(CdHL2)=6.96

Cd++ gl oth/un 25°C 0.10M U K1=2.5 1960YYa (58932)2537

C8H6O4 H2L Isophthalic aci CAS 212-91-5 (1619)
Benzene-1,3-dicarboxylic acid; C6H4(COOH)2

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

Cd++ ISE NaClO4 25°C 1.00M C K1=1.32 B2=2.17 19780Sa (59047)2538
B(CdHL)=4.98

C8H7NO2Cl2 HL CAS 13538-26-6 (6286)
3,5-Dichloro-2-hydroxyacetophenone oxime; Cl2(HO)C6H2.C(CH3):NOH

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

Cd++ gl alc/w 27°C 75% U I K1=4.90 B2=9.10 1976Lga (59115)2539
Data in 75% EtOH. Data also in 75% acetone and 75% dioxan

C8H7N3 L CAS 18653-75-3 (3792)
2-(2'-Pyridyl)imidazole;

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

Cd++ gl KNO3 25°C 0.10M C K1=4.58 B2=8.61 1992Rka (59179)2540

Medium: 50% EtOH

C8H8N2O6S H2L CAS 1215-63-0 (3845)
N-(4'-Nitrobenzenesulfonyl)aminoethanoic acid; O2N.C6H4.SO2.NH.CH2.COOH

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

Cd++ gl alc/w 30°C 50% U 1967GMb (59384)2547
K(Cd+H2L=CdHL+H)=2.34
K(CdHL+H2L=Cd(HL)2+H)=1.58

Medium: 50% EtOH

C8H8O2 HL Phenylacetic CAS 103-82-2 (1361)
Phenylethanoic acid; C6H5.CH2.COOH

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

Cd++ gl NaClO4 25°C 2.00M U K1=1.150 B2=1.917 1979NTa (59537)2548

C8H8O2S HL CAS 103-04-8 (3223)
(Phenylthio)ethanoic acid; C6H5.S.CH2.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=1.2 1962SYa (59624)2549

C8H8O2S HL CAS 13205-48-6 (4506)
4-(Methylthio)benzoic acid; CH3.S.C6H4.COOH

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.67 1972FGb (59652)2550
By competition with Ag+ using Ag ISE

C8H8O2Se HL CAS 17893-46-8 (4507)
(Phenylseleno)ethanoic acid; C6H5.Se.CH2.COOH

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.68 1972FGb (59660)2551
By competition with Ag+ using Ag ISE

C8H8O3 H2L o-Cresotic acid CAS 83-40-9 (2338)
2-Hydroxy-3-methylbenzoic acid; CH3.C6H3(OH).COOH

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

Cd++ gl alc/w 25°C 50% M M K1=6.30 1983ADb (59696)2552
K(Cd(phen)+L)=6.10

Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.

C8H8O3 HL m-Anisic acid CAS 586-38-9 (2804)
3-Methoxybenzoic acid; CH3O.C6H4.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=1.3 1960YYa (59907)2553

C8H8O3 HL CAS 673-22-3 (3194)

4-Methoxysalicylaldehyde; CH3O.C6H3(OH).CHO

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

Cd++ gl diox/w 30°C 75% U K1=6.85 B2=12.18 1967KBb (59976)2554

Medium: 75% dioxan, 0.1 M NaClO4

C8H8O3 H2L m-Cresotic acid CAS 50-85-1 (1244)

4-Methylsalicylic acid; CH3.C6H3(OH).COOH

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

Cd++ gl alc/w 25°C 50% M M K1=6.40 1983ADb (59993)2555

K(Cd(phen)+L)=6.25

Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.

C8H8O3 HL Phenoxyacetic CAS 122-59-8 (1153)

Phenoxyethanoic acid; C6H5.O.CH2.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=1.0 1962SYa (60035)2556

C8H8O4 H3L CAS 102-32-9 (1826)

3,4-Dihydroxyphenylethanoic acid; C6H3(OH)2.CH2COOH

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

Cd++ gl NaClO4 30°C 0.10M U K1=7.35 B2=11.63 1966APb (60067)2557

C8H8O4 HL CAS 520-45-6 (4478)

3-Acetyl-2-hydroxy-6-methylpyran-4-one, Dehydroethanoic acid;

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

Cd++ gl diox/w 35°C 50% U K1=2.98 B2=4.73 1971MAa (60079)2558

Medium: 50% dioxan, 0.1 M NaClO4

C8H9N L CAS 17618-94-9 (300)

2-Allylpyridine; C5H4N.CH2.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=1.3	1974ILa (60145)	2559

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	oth	diox/w	30°C	70%	U			B2=18.18	1973BSa (60157)	2560
Medium: 0.1 M KCl										

C8H9NO2			HL					C-Phenylglycine	CAS 2835-06-5	(6511)
2-Amino-2-phenylethanoic acid, 2-aminophenylethanoic acid; C6H5.CH(NH2)COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C	M		K1=4.10 B2= 7.24	1998JKb (60171)	2561
B3=9.71										
B(CdAL)=4.50										
B(CdA2L)=7.32										
B(CdAL2)=9.98										
Method: polarography. Medium pH 8.50. HA is nicotinic acid.										

Cd++	vlt	KNO3	25°C	1.0M	C	M		K1=4.10 B2= 7.24	1993DKb (60172)	2562
B3=9.71										
B(CdAL)=6.24										
B(CdA2L)=8.40										
B(CdAL2)=8.72										
Method: polarography. Medium pH 8.5. HA is formic acid.										
K(H+L)=9.23.										

C8H9NO2			HL					CAS 56-91-7	(3225)	
2-Aminomethylbenzoic acid; H2N.CH2.C6H4.COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U			K1=4.0 B2=7.6	1958YSa (60179)	2563

C8H9NO2			HL					CAS 17194-82-0	(1382)	
2-Hydroxyacetophenone oxime; HO.C6H4.C(CH3):NOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	50%	U			K1=4.83	1982UVa (60209)	2564

Cd++	gl	diox/w	30°C	75%	U			K1=6.95	1958KV a (60210)	2565
Medium: 75% dioxan, 0.1 M NaClO4										

C8H9NO2			HL					CAS 4389-45-1	(3226)	

3-Methyl-2-aminobenzoic acid; CH₃.C₆H₃(NH₂).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U			K1=3.48 B2=6.17	1956HSc (60231)	2566

C ₈ H ₉ N ₂ O ₂			HL					CAS 119-68-6	(1275)	
N-Methyl-anthranilic acid; CH ₃ .NH.C ₆ H ₄ .COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U			K1=3.3 B2=6.0	1958YSa (60262)	2567

C ₈ H ₉ N ₂ O ₂			HL					Phenyl-glycine CAS 103-01-5	(626)	
N-Phenylaminoethanoic acid; C ₆ H ₅ .NHCH ₂ COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.10M	U			K1=2.0	1959SYc (60312)	2568

C ₈ H ₉ N ₂ O ₂			HL					CAS 5330-97-2	(6248)	
Phenylacetohydroxamic acid; C ₆ H ₅ .CH ₂ .CO.NH.OH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KN ₃	30°C	0.50M	C			K1=4.04 B2= 7.51	1983BNa (60329)	2569
Method: polarography.										

Cd++	gl	NaClO ₄	30°C	0.10M	U	T	H		1981RSc (60330)	2570
Data for 30-50 C. DH(K1)=-20.0 kJ mol ⁻¹ , DS(K1)=14 J K ⁻¹ mol ⁻¹ . K(Cd(bpy)+L)=3.96, DH=-17.4, DS=18; K(Cd(phen)+L)=3.98, DH=-18.0, DS=17.										

Cd++	gl	NaClO ₄	30°C	0.10M	U		M	K1=4.20 B2=7.20	1980RSb (60331)	2571
K(Cd(phen)+L)=3.98										

Cd++	gl	KN ₃	30°C	0.10M	U		M	K1=4.20	1980RSc (60332)	2572
K(Cd(His)+L)=3.56										

Cd++	gl	NaClO ₄	30°C	0.10M	U	T	H		1980RSe (60333)	2573
DH(K1)=-20.0 kJ mol ⁻¹ , DS(K1)=14 J K ⁻¹ mol ⁻¹ ; DH(K2)=-20.7, DS(K2)=1.4. *****										
C ₈ H ₉ N ₂ O ₂			L					Et-nicotinate CAS 614-18-6	(1590)	
Pyridine-3-carboxylic acid ethyl ester; C ₅ H ₄ N.COOC ₂ H ₅										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KN ₃	25°C	0.30M	U			K1=0.60	1967NAC (60363)	2574

C ₈ H ₉ N ₂ O ₂ S			HL					CAS 104-18-7	(4575)	
(4-Aminophenylthio)ethanoic acid; H ₂ N.C ₆ H ₄ .S.CH ₂ .COOH										

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.05M M          K1=3.65      1975DPb (60369)2575
*****
C8H9NO3          HL                      CAS 2292-53-7 (8860)
Mandelohydroxamic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   20°C 0.10M U          K1=4.52  B2= 8.05  1989SMc (60443)2576
*****
C8H9NO4          H2L  Mimosinic acid (2309)
3-(3-Hydroxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   37°C 0.15M C          K1=5.89  B2=10.19  1979SPd (60467)2577
                      K3=1.8
*****
C8H9NO4          H2L                      (4520)
Dehydroethanoic acid oxime;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 35°C 50% U          K(Cd+HL)=2.92
                      K(Cd+2HL)=5.43
Medium: 50% dioxan, 0.01 M NaClO4
*****
C8H9NO4S          H2L                      CAS 7717-21-7 (3846)
N-(Phenylsulfonyl)aminoethanoic acid; C6H5SO2NHCH2COOH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      vlt NaClO4 25°C 0.10M U    M          1991GBb (60515)2579
                      K(Cd+H-1L)=5.06
                      K(Cd+2H-1L)=7.66
                      K(Cd+H-1L+OH)=8.95
                      K(Cd+2H-1L+OH)=12.02
B(Cd(bpy)L)=7.18, K(Cd+bpy+H-1L)=9.90, K(Cd(bpy)+L)=2.93,
K(Cd(bpy)+H-1L)=5.65
-----

```

```

-----
Cd++      gl  alc/w  30°C 50% U          1967GMb (60516)2580
                      K(Cd+H2L=CdHL+H)=1.71
                      K(CdHL+H2L=Cd(HL)2+H)=2.21
                      K(CdHL2+H)=7.28
                      K(CdL2+H)=8.89
Medium: 50% EtOH
*****

```

C8H9N2O2F3S HL CAS 58157-03-2 (212)
2-(Trifluoromethanesulfonamidoethyl)pyridine; C5H4NCH2CH2S(:O)2NHCF3

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

Cd++ gl diox/w 30°C 45% M K1=7.2(5) B2=9.6(8) 1984MYa (60529)2581

C8H9N3OS L (4573)
1-Benzoylthiosemicarbazide; C6H5.CO.NH.NH.CS.NH2

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

Cd++ gl alc/w 25°C 80% U TIH K1=8.50 1985BAb (60550)2582
In 0.067 M KCl. When I=0.133, K=8.70; I=0.200, K=8.86. DH=-38.0 kJ mol-1,
DS=32 J K-1 mol-1

C8H9N3OS H2L CAS 5351-90-6 (2103)
Salicylidenethiosemicarbazone; HO.C6H4.CH:N.NH.CS.NH2

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

Cd++ gl alc/w 20°C 50% U K1=6.3 B2=11.5 1959HOa (60556)2583

C8H9N3O7 H2L Uramildiacetic CAS 13055-06-5 (185)
5-Amino-2,4,6-trioxo-1,3-perhydrodiazimino-N,N-diethanoic acid;

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

Cd++ gl R4N.X 25°C 0.10M C K1=11.64 B2=18.28 1975JTa (60607)2584

Cd++ oth KNO3 25°C 0.10M U K1=10.79 1972FVa (60608)2585
K(Cd+HL)=4.19

Cd++ gl oth/un 20°C 0.0 U K2=6.7 1948SBa (60609)2586

C8H10N2O HL Mandelamidine CAS 700-63-0 (3825)
2-Hydroxy-2-phenylacetamidine; C6H5.CH(OH).C(:NH)NH2

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

Cd++ gl KNO3 25°C 0.10M U 1970GSb (60714)2587
K(Cd+HL)=2.71
K(Cd+2HL)=4.98
K(Cd(HL)2+OH)=10.80

Cd++ vlt oth/un 25°C ? U 1970GSb (60715)2588
K(Cd+2OH+HL)=10.8

C8H10N2O2 HL (3227)
N-(2'-Pyridylmethyl)glycine; C5H4N.CH2.NH.CH2.COOH

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3   25°C 0.10M U          K1=6.1        1965Lca (60743)2589
*****
C8H10N2O4      H2L   Mimosine          CAS 2116-55-4 (2308)
2-Amino-3-(3-hydroxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3   37°C 0.15M C          K1=5.87   B2=10.19  1979SPd (60755)2590
                                B(CdHL)=12.91
                                B(CdHL2)=17.9
                                B(CdH2L2)=25.00
                                B(Cd2L)=8.6
*****
C8H10N2S          L          CAS 538-28-3 (2599)
2-Benzyl-2-thiopseudourea; C6H5.CH2.S.C(:NH)(NH2)
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       ISE mixed 25°C 82% U          K1=4.14        1979MTc (60766)2591
Medium: 82% formamide
-----
Cd++       ISE mixed 25°C 82% U          K1=5.27   B2=7.45   1979TBb (60767)2592
                                B3=9.50
Medium: 82% formamide
*****
C8H10N2S          L          (2598)
2-Tolylthiocarbamide; CH3.C6H4.NH.CS.NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       ISE mixed 25°C 82% U          K1=4.15        1979MTc (60772)2593
Medium: 82% formamide
-----
Cd++       ISE mixed 25°C 82% U          K1=3.47   B2=4.25   1979TBb (60773)2594
                                B3=4.95
Medium: 82% formamide
*****
C8H10N2S          L          CAS 2724-69-8 (2570)
N,N'-Methylphenylthiocarbamide; CH3.NH.CS.NH.C6H5
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       ISE alc/w 25°C 80% U          K1=1.30   B2=2.25   1975FFb (60775)2595
                                B3=2.95
                                B4=3.89
                                B5=4.43
                                B6=5.24
-----

```

C8H10O9 H4L CAS 137172-86-2 (6612)
SS-Oxydisuccinic acid; O(CH(COOH)CH2.COOH)2

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

Cd++ gl KCl 25°C 0.10M C K1=4.94 1992MMa (60900)2596
K(CdL+H)=4.28
K(CdHL+H)=3.74
K(CdH2L+H)=3.05
K(Cd+HL)=3.25

K(Cd+H2L)=2.20, K(Cd+H3L)=1.85

C8H10O9 H4L CAS 84852-72-2 (6611)
meso-Oxydisuccinic acid; O(CH(COOH)CH2.COOH)2

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

Cd++ gl KCl 25°C 0.10M C K1=5.38 1992MMa (60912)2597
K(CdL+H)=4.32
K(CdHL+H)=3.41
K(CdH2L+H)=3.49
K(Cd+HL)=3.73

K(Cd+H2L)=2.28, K(Cd+H3L)=1.80

C8H10O10 H4L (5894)
1-Hydroxy-3-oxapentane-1,2,4,5-tetracarboxylic acid;
HO.CH(COOH).CH(COOH).O.CH(COOH).CH2(COOH)

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

Cd++ gl KCl 25°C 0.10M C K1=4.63 1989MMd (60924)2598
K(CdL+H)=3.98
K(CdHL+H)=3.53

C8H11N L CAS 69376-33-6 (542)
2,4,6-Trimethylpyridine; C5H2N.(CH3)3

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

Cd++ dis non-aq 25°C 100% U 1993SSe (60942)2599
K(CdCl2A2+L=CdCl2AL+A)=-0.54
K(CdCl2A2+2L=CdCl2L2+2A)=-2.91
K(CdBr2A2+L=CdBr2AL+A)=-0.77
K(CdBr2A2+2L=CdBr2L2+2A)=-3.10

A=trioctylphosphine. Medium: 1,2-dichloroethane

C8H11N L CAS 622-39-9 (303)
2-(n-Propyl)pyridine; C5H4N.CH2.CH2.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U		K1=1.1	1974ILa (60958)	2600

C8H11N			L				CAS 529-21-5	(2002)	
3-Ethyl-4-methylpyridine; CH3.C5H3N.C2H5									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	1.00M	U		K1=1.07 B2=2.73 B3=3.50	1979LRa (60972)	2601

C8H11NO			L				CAS 20609-07-8	(298)	
2-(2'-Hydroxypropyl)pyridine; C5H4N.CH2.CH(OH).CH3									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U		K1=1.6	1974ILa (60996)	2602

C8H11NO			HL				CAS 6623-41-2	(3229)	
2-Amino-4,5-dimethylphenol; H2N.C6H2(CH3)2.OH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	none	20°C	0.0	U		K1=4.9	1959SIb (61017)	2603

C8H11NO			L				CAS 2859-67-8	(2037)	
3-(3-Pyridyl)-1-propanol; C5H4N.CH2.CH2.CH2OH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U		K1=1.51 B2=2.58 B3=3.32 B4=3.72	1981LRa (61025)	2604

C8H11NO			L				p-Phenetidine CAS 156-43-4	(3831)	
4-Ethoxyaniline; CH3.CH2O.C6H4.NH2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.30M	U		K1=0.30 B2=0.40 B3=0.04	1964NAe (61028)	2605

C8H11NO2			H2L				Dopamine CAS 579-59-9	(251)	
2-(3',4'-Dihydroxyphenyl)ethylamine; (HO)2.C6H3.CH2.CH2.NH2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	1.0M	C			1997GCa (61068)	2606
K(Cd+H2L=CdHL+H)=-6.32									

K(Cd+H2L=CdL+2H)=-13.85
K(Cd+H2L=CdH-1L+3H)=-23.43
K(Cd+2H2L=CdL2+4H)=-30.7

Ligand defined as H2L. K(CdL=CdH-1L+H)=-9.58, K(CdHL=CdL+H)=-7.53,
K(CdL2=CdH-1L2+H)=-9.5, K(CdL+H2L=CdL2+2H)=-16.8

Cd++ gl NaNO3 20°C 0.50M U 1974GSa (61069)2607
B(CdHL)=17.99

C8H11NO3 HL Vitamin B6 CAS 65-23-6 (254)
5-Hydroxy-6-methyl-3,4-pyridinedimethanol, Pyridoxine;

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

Cd++ vlt KNO3 25°C 1.0M C K1=1.45 B2= 2.32 1997KKb (61109)2608
Method: polarography. Medium pH 8.50.

Cd++ vlt KNO3 30°C 0.10M C M K1=1.40 B2= 2.34 1985KCb (61110)2609
B(Cd(ala)L)=5.30
B(Cd(ala)L2)=6.33
B(Cd(ala)2L)=8.25
B(Cd(gly)L)=5.20
Method: polarography. B(Cd(gly)L2)=6.26, B(Cd(gly)2L)=8.35;
B(Cd(glu)L)=5.35, B(Cd(glu)L2)=6.18, B(Cd(glu)2L)=8.40. Medium pH 8.9.

Cd++ vlt KNO3 30°C 0.10M C M 1985KCb (61111)2610
B(Cd(ser)L)=5.05
B(Cd(ser)L2)=6.00
B(Cd(ser)2L)=7.98
B(Cd(thr)L)=5.00
Method: polarography. B(Cd(thr)L2)=5.80, B(Cd(thr)2L)=7.75.
Medium pH 8.9.

Cd++ vlt KNO3 20°C 0.10M U T H 1974CGa (61112)2611
K(Cd+HL)=1.40
K(Cd+2HL)=2.36
30 C; K1=1.38, B2=2.33; 40 C: K1=1.25, B2=2.00

C8H11NO3 H2L Noradrenaline CAS 138-65-8 (253)
Norepinephrine, 3,4-Dihydroxyphenylethanolamine; (HO)2C6H3.CH(CH2.NH2).OH

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

Cd++ gl NaNO3 20°C 0.50M U 1974GSa (61153)2612
B(CdHL)=16.32

C8H11NO8P2 H5L (6894)
N-(4-Carboxyphenyl)aminomethylenedi(phosphonic acid); HOOC.C6H4.NH.CH(PO3H2)2

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

B(CdH(en)L)=18.38
B(CdH2(en)L)=25.98

B(CdH3(en)L)=33.75

Cd++ vlt KNO3 23°C 0.50M U M 1978AEa (61409)2621
B(CdL(Gly))=9.20
B(CdL(Gly)2)=10.94
B(CdL2(Gly))=11.67

Additional data for ternary alanine, valine and phenylalanine complexes.

Cd++ vlt NaCl 25°C 0.10M U K1=4.83 B2=7.68 1977ERa (61410)2622

Cd++ gl KNO3 25°C 0.10M U K1=4.59 1957GMa (61411)2623

C8H12N4O3 HL Gly-His CAS 3486-76-8 (273)
Glycyl-histidine; H2N.CH2.CO.NH.CH(CH2.C3H3N2).COOH

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

Cd++ gl KNO3 25°C 0.10M U K1=3.12 1992LPc (61586)2624

Cd++ gl KNO3 25°C 0.20M C K1=3.69 B2= 5.44 1986SVa (61587)2625
B(CdH-1L)=-7.16
B(CdHL)=11.05

Cd++ gl KNO3 25°C 0.10M C M K1=3.32 B2=5.59 1984ACa (61588)2626
B(CdHL)=10.50
B(Cd2L2)=8.99
B(Cd2H-1L2)=0.6 ??
B(CuCdH-2L2)=2.8

C8H12N4O3 HL His-Gly CAS 2578-58-7 (274)
Histidyl-glycine; H2N.CH(CH2.C3H3N2).CO.NH.CH2.COOH

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

Cd++ gl KNO3 25°C 0.10M C HM K1=4.55 B2=7.90 1988DZa (61623)2627
B(CdHL)=9.77

By cal: DH(K1)=-22.2 kJ mol⁻¹; DS=12. DH(K2)=-17.5; DS=5. DH(CdHL)=-53;
DS=9. Also B(CuCdH-1L)=4.30; DH=-15; DS=32. B(CuCdH-2L)=-3.65; DH=15; DS=-19

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

Cd++ gl NaNO3 25°C 0.10M M M K1=2.13 2000KLb (61645)2628
K(PtLA+Cd)=2.13

A=diethylenetriamine

Cd++ g1 NaNO3 25°C 0.10M M K1=3.00 1992SCa (61646)2629
B(CdHL)=7.90
K(Cd+HL)=1.00

C8H12O4 H2L CAS 6018-58-3 (960)
Hex-1-ene-6-dioic acid; CH2:CH.CH2.CH2.CH2.CH(COOH)2

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

Cd++ g1 KNO3 25°C 0.10M C K1=2.60 1975IPa (61726)2630

C8H13NO6 H3L (3835)
2-Amino-2-carboxypropane-N,N-diethanoic acid; HOOCC(CH3)2N(CH2COOH)2

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

Cd++ g1 KNO3 20°C 0.10M U K1=8.42 1974RMF (61754)2631

C8H13NO6 H3L (5681)
2-Aminobutanoic-N,N-diethanoic acid; CH3CH2CH(COOH)N(CH2COOH)2

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

Cd++ g1 KNO3 20°C 0.10M U K1=9.96 1974RMF (61780)2632

C8H13NO6 H3L (3232)
N-(Carboxymethyl)iminodipropionic acid; HOOCC(CH2)2N(CH2)2COOH)2

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

Cd++ g1 KCl 30°C 0.10M U K1=5.6 1953CMa (61806)2633

C8H13NO6S H3L (5675)
2-Mercapto-1-aminoethane-N,N,S-triethanoic acid; HOOCC(CH2)2S(CH2)2N(CH2COOH)2

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

Cd++ g1 NaClO4 25°C 0.10M U K1=9.45 1975POa (61815)2634

K(Cd+HL)=2.93

C8H13N6O4P H2L (7462)

9-[2-(Phosphonomethoxy)ethyl]-2,6-diaminopurine;

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

Cd++ g1 NaNO3 25°C 0.10M M K1=3.00 1999BSa (61872)2635

K(Cd+HL)=1.53

C8H14N2O3 HL Pro-Ala CAS 6422-36-2 (263)

Prolyl-alanine; C4H8N.CO.NH.CH(CH3).COOH

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

Cd++ gl KCl 20°C 0.20M U I K1=3.15 B2=5.59 1982RRd (61927)2636

C8H14N4O5 HL Tetraglycine CAS 637-84-3 (1849)
Glycyl-Glycyl-Glycyl-Glycine; H2N.CH2.CO.NH.CH2.CO.NH.CH2.CO.NH.CH2.COOH

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

Cd++ nmr oth/un 25°C 0.80M U K1=2.71 1972RLb (62017)2637
K(Cd+HL)=1.14
Medium: 0.8, 0.2 Cd(NO2)2

Cd++ gl KNO3 25°C 0.15M U K1=2.65 B2=5.2 1958LCa (62018)2638

Cd++ gl oth/un 25°C 0.01M U K1=2.8 1954PEa (62019)2639
Medium: CdSO4

C8H14O2S2 HL Lipoic acid CAS 1077-28-7 (409)
1,2-Dithiolane-3-pentanoic acid (6,8-Thioctic acid); C3H5S2.(CH2)4.COOH

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

Cd++ EMF diox/w 25°C 50% U K1=2.59 1978SPa (62070)2640
With L-lipoic acid: K1=2.58; D-lipoic acid: 2.58

C8H14O4S3 H2L (2526)
3,6,9-Trithiaundecanedioic acid; HOOC.CH2.S.C2H4.S.C2H4.S.CH2.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=2.55 1971FPa (62119)2641

C8H14O5S2 H2L CAS 4408-66-6 (8332)
Oxybis(ethylenethio)diethanoic acid;

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

Cd++ gl KNO3 20°C 0.10M U K1=2.44 1977CAc (62133)2642

C8H15NO4 H2L CAS 33994-68-7 (347)
N-Butyliminodiethanoic acid; C4H9.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M C K1=6.98 B2=12.63 1975IPa (62188)2643

C8H15NO5 H2L (3234)
N-(2-Hydroxyethyl)iminodipropanoic acid; HO.CH2.CH2.N(CH2.CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=2.9	1954CMa (62200)	2644

C8H15NO6			H2L					CAS 92511-22-3	(6074)	
N-(1,1-Di(hydroxymethyl)ethyl)iminoethanoic acid; (HO.CH2)2C(CH3).N(CH2.COOH)2										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	1.0M	C			K1=7.29 B2=10.14	1981ASb (62214)	2645

C8H16N2O3			HL		Gly-Ile			CAS 19461-38-2	(2329)	
Glycyl-isoleucine; H2N.CH2.CO.NH.CH(CH(CH3).C2H5).COOH										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U			K1=3.4	1954PEa (62319)	2646

C8H16N2O3			HL		Gly-Leu			CAS 869-19-2	(255)	
Glycyl-leucine; H2N.CH2.CO.NH.CH(CH2.CH(CH3)2).COOH										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.20M	M	M		K1=3.005 B2= 5.56	1994VBb (62378)	2647
B(Cd(Ala)L)=7.368										
B(Cd(Phe)L)=7.221										
B(Cd(Tyr)L)=7.268										
B(Cd(Trp)L)=7.425										
B(Cd(His)L)=8.930.										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	20°C	0.20M	U			K1=2.85 B2=5.06	1982RRd (62379)	2648
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U			K1=3.1	1954PEa (62380)	2649

C8H16N2O3			HL		Leu-Gly			CAS 686-50-0	(1248)	
Leucyl-glycine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH2.COOH										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	20°C	0.20M	U			K1=2.24 B2=4.21	1982RRd (62425)	2650
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U			K1=2.47	1959DLb (62426)	2651
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U			K1=1.9	1954PEa (62427)	2652

C8H16N2O4			H2L					(267)		
1,2-Diaminoethane-N,N'-di(2-propanoic acid); ((CH3)(COOH).CH.NH.CH2)2										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=8.47 1966MKb (62465)2653

Cd++ gl KCl 20°C 0.10M U K1=8.8 1958ISa (62466)2654

C8H16N2O4 H2L CAS 13288-40-9 (3237)
1,2-Diaminoethane-N,N'-di(3-propanoic acid); (HOOCCH2CH2NHCH2.)2

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

Cd++ gl KNO3 25°C 0.10M U M K(CdL+en)=4.15 1970DNa (62492)2655

Cd++ gl KCl 20°C 0.10M U K1=8.1 1958ISa (62493)2656

Cd++ gl KCl 30°C 0.10M U K1=5.6 1953CCb (62494)2657

C8H16N2O4 H2L (266)
N,N'-Dimethylethylenediamine-N,N'-diethanoic acid;

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

Cd++ gl KNO3 25°C 0.10M C K1=10.49 1993WLa (62522)2658
K(Cd+HL)=3.19
K(CdL+OH)=2.44

C8H16N2O4S2 H4L (6947)
2,7-Dicarboxy-3,6-diaza-1,8-octanedithiol;
HS.CH2.CH(COOH)NH.CH2CH2.NH.CH(COOH)CH2.SH

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

Cd++ gl KCl 25°C 0.10M C K1=20.87 1996LMa (62546)2659
B(CdHL)=26.41
B(CdH2L)=30.70
B(Cd(OH)L)=8.95

C8H16N2O4S2 H2L (1226)
3,6-Dithiaoctanediamine-4,5-dicarboxylic acid; (H2N.C2H4.S.CH(COOH))2

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

Cd++ gl NaClO4 25°C 0.10M U K1=16.51 B2=22.72 1978MJa (62557)2660

C8H16N2O6 H2L CAS 50730-95-5 (4548)
Ethylenediiminobis(3-hydroxy-2-propanoic acid);

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

Cd++ EMF oth/un 20°C 0.10M U K1=8.77 1972DKa (62578)2661

Cd++ gl KNO3 20°C 0.10M U K1=8.77 1970DKa (62579)2662
By spectrophotometry: K1=8.78 in 0.1 M NaClO4

C8H16N10 L (7005)
N,N'-Di(2-(5-tetraazoly)ethyl)-1,2-diaminoethane;

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

Cd++ gl NaNO3 20°C 0.10M U K1=10.70 1981ESa (62612)2663

C8H16O4 L 12-Crown-4 CAS 294-93-9 (174)
1,4,7,10-Tetraoxacyclododecane; cyclo(-O.(CH2.CH2.O)3.CH2.CH2-)

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

Cd++ nmr non-aq 27°C 100% C K1=4.17 2000SMg (62653)2664
Medium: acetonitrile. Method: competitive 7Li nmr technique.

Cd++ vlt R4N.X 25°C 0.2M U K1=17.0 1999BBc (62654)2665
Medium: 0.2 M Bu4NPF6

Cd++ vlt oth/un RT 0.10M C K1=<2 1985LAa (62655)2666
Method: dc polarography. Medium: 0.10 M HNO3.

C8H17NO3 L CAS 41775-76-2 (6751)
10-Aza-1,4,7-trioxacyclododecane;

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

Cd++ vlt NaNO3 25°C 0.5M C K1=2.80 1998CCf (62759)2667
K(Cd+L+OH)=7.88

Method: Differential pulse polarography.

C8H17NO4 H2L CAS 6353-68-6 (3238)
N,N-Di-(2-Hydroxypropyl)glycine; (HO.CH2.CH2)2N.CH2.COOH

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

Cd++ gl oth/un 30°C 0.10M U K1=4.72 B2=7.90 1957FCa (62781)2668

C8H17N3O2 HL (5973)
1,4,7-Triazacyclononane-1-ethanoic acid;

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

Cd++ gl KNO3 25°C 0.50M M K1=11.67 B2=16.63 1993CKa (62790)2669
K(Cd(OH)L+H)=11.01

C8H18N2O2 L CAS 294-92-8 (654)

1,7-Dioxo-4,10-diazacyclododecane;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  R4N.X  25°C 0.10M U          K1=6.55  B2=12.00  1985NSb (62840)2670
                                     B(CdH-1L)=-1.1
-----
```

 C8H18N4O2 L (6627)
 N,N'-Bis(3-aminopropyl)oxamide; (CO.NH.(CH2)3.NH2)2

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaNO3  25°C 0.10M C    M          B(CdCuL)=23.8
                                     B(CdCu3L3)=69.6
-----
```

 C8H19NO5 L Bis-tris CAS 6976-37-0 (2827)
 Bis-(2-hydroxyethyl)imino-tris(hydroxymethyl)methane;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3   25°C 1.0M C          K1=2.47   1980SAb (63050)2672
                                     K(Cd(ATP)+L)=1.14
-----
```

 C8H19N3O L CAS 186499-20-7 (9068)
 (2-Hydroxyethyl)-1,4,7-triazacyclononane;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaNO3  25°C 0.10M C          K1=8.74   2003CPa (63115)2673
-----
```

 C8H19N3O L (4430)
 1-Oxa-4,7,10-triazacyclododecane;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3   25°C 0.10M U          K1=10.69 B2=17.37  1991ACa (63131)2674
                                     B(CdH-1L)=0.3
                                     K(CdL+OH)=3.43
-----
```

```
-----
Cd++       gl  NaNO3  25°C 0.10M U          K1=10.78   1988HSb (63132)2675
-----
```

```
-----
Cd++       gl  NaNO3  25°C 0.10M U          K1=10.78   1986TSa (63133)2676
-----
```

 C8H19O2PS2 HL CAS 2253-44-3 (2060)
 O,O'-Dibutyl dithiophosphoric acid; (C4H9O)2P(S)SH

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       vlt mixed RT 50% C          1986HSd (63152)2677
-----
```


B3=8.83

B4=9.95

Medium: 50% v/v DMF/H2O. Method: polarography.

Cd++ vlt alc/w ? 90% U B2=9.0 1971TCa (63153)2678
Medium: 90% EtOH, 0.3 M NaClO4

C8H19O2PS2 HL CAS 2253-52-3 (4584)
O,O-Di-isobutyl phosphorodithioic acid; ((CH3)2.CH.CH2O)2P(S)SH

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

Cd++ cal non-aq 30°C 100% U M 1971DGb (63165)2679
K(2CdL2=Cd2L4)=3.70
K(Cd2L4+2py=2CdL2py)=5.42
K(CdL2+py)=4.56
K(CdL2py+py)=0.41

Medium : benzene

C8H19PS2 HL CAS 32435-51-5 (4552)
Di-n-butyl phosphinedithioic acid; (C4H9)2PSSH

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

Cd++ vlt alc/w ? 90% U B2=11.3 1971TCa (63205)2680
Medium: 90% EtOH, 0.15 M NaClO4

C8H20N2 L CAS 105-04-4 (4492)
N,N,N'-Triethylethylenediamine; (C2H5)2.N.CH2.CH2.NH.C2H5

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

Cd++ ISE KNO3 25°C 1.0M U K1=4.56 B2=6.73 1973CPd (63219)2681
K3=1.02
K(Cd+HL)=0.83
B(CdL(OH)2)=10.83

C8H20N2O2 L CAS 82502-45-2 (3239)
N,N'-Di-(2-Hydroxypropyl)ethylenediamine; (CH3.CH(OH).CH2.NH.CH2.)2

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

Cd++ gl oth/un 25°C 0.50M U K1=5.33 B2=8.60 1960HDa (63224)2682

C8H20N2S2 H2L (6624)
4,7-Dimethyl-1,10-dithia-4,7-diazadecane; HS.CH2CH2.N(CH3)CH2CH2N(CH3).CH2CH2.SH

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

Cd++ gl KNO3 25°C 0.20M C K1=20.40 1992AHa (63246)2683

B(CdH6L2)=61.9
 B(CdH8L3)=90.02
 B(Cd2H3L3)=73.07
 B(Cd2HL2)=49.14

B(Cd3H2L3)=77.76, B(Cd4H4L4)=109.68

C8H20N4 L Cyclen CAS 294-90-6 (10)
 1,4,7,10-Tetraazacyclododecane; cyclo(-(NH.CH2.CH2.)4-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=14.3	1988HSb (63279)	2684

Cd++	vlt	oth/un	25°C	0.20M	U	H		K1=14.3	1977KKa (63280)	2685
------	-----	--------	------	-------	---	---	--	---------	-----------------	------

DH(K1)=-34.3 kJ mol-1

C8H20N4 L CAS 6531-38-0 (6515)
 1,4-Bis(2-aminoethyl)-1,4-diazacyclohexane; NH2.CH2CH2.N(CH2CH2)2N.CH2CH2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=4.51	1990HNa (63305)	2686

C8H22N4 L CAS 35513-90-7 (1545)
 1,4,9,12-Tetraazadodecane; NH2.(CH2)2.NH.(CH2)4.NH.(CH2)2.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	1.00M	C	H		K1=11.05	1982ABc (63380)	2687

By calorimetry: DH1=-46.4 kJ mol-1, DS1=56.5

C8H23N5 L Tetren CAS 112-57-2 (715)
 1,4,7,10,13-Pentaazatridecane (Tetraethylenepentamine);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	65%	U	I		K1=16.2	1972RBa (63455)	2688

Medium: 40-99% EtOH, 0.1 M NaClO4. K1(40%)=14.8, K1(99%)=17.44

Cd++	cal	KNO3	25°C	0.10M	U	H			1965WHa (63456)	2689
------	-----	------	------	-------	---	---	--	--	-----------------	------

DH(K1)=-53.5 kJ mol-1, DS=91.9 J K-1 mol-1

Cd++	vlt	oth/un	25°C	0.50M	U			K1=14.7	1962JSa (63457)	2690
------	-----	--------	------	-------	---	--	--	---------	-----------------	------

phosphate buffer.

Cd++	gl	KNO3	25°C	0.10M	U			K1=14.0	1958RHa (63458)	2691
------	----	------	------	-------	---	--	--	---------	-----------------	------

C9H4N2F4 L CAS 124005-68-1 (7590)
 N-(2,3,5,6-Tetrafluorophenyl)imidazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.50M	M		K1=1.92	1998KSa (63502)	2692

C9H5NOBr2			HL				CAS 521-74-4	(3279)	
5,7-Dibromo-8-hydroxyquinoline;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	75%	U		K1=7.05 B2=13.11	1970GMh (63514)	2693
Medium: 75% v/v dioxan, 0.2 M NaClO4									

C9H5NOCl2			HL				CAS 773-76-2	(3278)	
5,7-Dichloro-8-hydroxyquinoline;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	75%	U		K1=6.96 B2=12.70	1970GMh (63538)	2694
Medium: 75% dioxan, 0.2 M NaClO4									

C9H5NOI2			HL				CAS 83-73-8	(3280)	
5,7-Di-iodo-8-hydroxyquinoline;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	75%	U		K1=6.80 B2=12.85	1971MAb (63554)	2695
Medium: 75% v/v dioxan, 0.1 M NaClO4									

C9H5NO2Br2			HL				CAS 16846-41-1	(4666)	
5,7-Dibromo-8-hydroxyquinoline N-oxide;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	75%	U		K1=5.72 B2=10.43	1970GMh (63580)	2696
Medium: 75% v/v dioxan, 0.2 M NaClO4									

C9H5NO2Cl2			HL				CAS 21168-33-2	(4665)	
5,7-Dichloro-8-hydroxyquinoline N-oxide;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	75%	U		K1=5.53 B2=10.09	1970GMh (63590)	2697
Medium: 75% v/v dioxan, 0.2 M NaClO4									

C9H5NO4			HL				CAS 22308-86-7	(4607)	
3-Nitroso-4-hydroxycoumarin (oximidobenzotetronic acid);									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	21°C	50%	U		K1=2.16 B2=4.82	1970MGd (63602)	2698

Medium: 50% dioxan, 0.3 M NaClO4

C9H5N3O5 HL CAS 1084-32-8 (4608)
5,7-Dinitro-8-hydroxyquinoline;

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

Cd++ gl diox/w 35°C 75% U K1=4.21 B2=6.26 1970GMh (63625)2699

Medium: 75% dioxan, 0.2 M NaClO4

C9H6NO4IS H2L Ferron CAS 547-91-1 (275)
7-Iodo-8-hydroxyquinoline-5-sulfonic acid; (HO)(HO3S)C9H4NI

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

Cd++ vlt KNO3 RT 0.10M C I B3=14.8
1982RBb (63764)2700

Method: polarography. Medium: 0.10 M KNO3, pH 9.5. Also data for 10-40%
MeOH/H2O and i-PrOH/H2O. In 40% MeOH/H2O, B3=16.4.

Cd++ gl oth/un 20°C 0.03M U K1=6.65 1977KCb (63765)2701
K1=6.70 by solubility

Cd++ gl KCl 25°C 0.10M M I M K1=5.58 B2=10.57 1977MLb (63766)2702

Cd++ EMF oth/un 25°C 0.10M U K1=6.28 B2=12.18 1968KBa (63767)2703

Cd++ ix oth/un 25°C 0.10M U K1=5.70 B2=11.18 1968KBa (63768)2704

C9H6N2Br2 L CAS 36107-02-5 (4611)
8-Amino-5,7-dibromoquinoline;

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

Cd++ sp diox/w 25°C 50% U K1=1.6 1972YTa (63845)2705

C9H6N2O6S H2L CAS 15851-63-3 (1433)
7-Nitro-8-hydroxyquinoline-5-sulfonic acid;

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

Cd++ gl oth/un 25°C 0.0 U K1=5.17 B2=9.30 1955NUa (63905)2706

C9H6O6 H3L Hemimellitic ac CAS 569-51-7 (1621)
1,2,3-Benzenetricarboxylic acid; C6H3.(COOH)3

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

Cd++ ISE NaClO4 25°C 1.00M C K1=2.39 B2=3.79 1979A0b (63964)2707
B(CdHL)=6.62

B(Cd2L2)=6.36

C9H6O6 H3L Trimellitic aci CAS 528-44-9 (1622)
1,2,4-Benzenetricarboxylic acid; C6H3.(COOH)3

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

Cd++ ISE NaClO4 25°C 1.00M C K1=1.88 B2=2.96 1979AOb (63990)2708
B(CdHL)=5.87
B(Cd2L2)=5.12

C9H6O6 H3L CAS 554-95-0 (1623)
1,3,5-Benzenetricarboxylic acid; C6H3.(COOH)3

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

Cd++ ISE NaClO4 25°C 1.00M C K1=1.52 B2=2.58 1979AOb (63999)2709
B(CdHL)=5.47

C9H7N L CAS 91-22-5 (1538)
Quinoline;

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

Cd++ ISE KNO3 25°C 0.30M U K1=0.25 1967NAc (64049)2710

C9H7NO HL Oxine CAS 148-24-3 (504)
8-Hydroxyquinoline (8-quinolinol);

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

Cd++ vlt alc/w RT 40% C I 1982RBb (64197)2711
B3=18.9

Method: polarography. Medium: 40% MeOH/H2O. In 40% i-PrOH/H2O, B3=19.2.

Cd++ sp diox/w 25°C 50% U I K1=8.22 B2=15.22 1978QCa (64198)2712
In water-saturated propylene carbonate K1=10.7, K2=9.5

Cd++ gl diox/w 25°C 50% U H K1=8.22 B2=15.22 1968GFa (64199)2713
Medium:50% dioxan, 0.1 M NaClO4. By calorimetry: DH(K1)=-23.0 kJ mol⁻¹
DS=79.4 J K⁻¹ mol⁻¹; DH(B2)=-48.5, DS=130

Cd++ gl oth/un 20°C 0.01M U K1=7.2 B2=13.4 1953ALa (64200)2714

Cd++ gl diox/w 25°C 50% U K1=9.43 B2=17.11 1952JFa (64201)2715

Cd++ sp oth/un 20°C 0.0 U K1=7.78 1952NPa (64202)2716

C9H7NO2 HL CAS 1127-45-3 (4614)
8-Hydroxyquinoline-N-oxide;

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 25°C 50% U      K1=4.40  B2=8.80  1970Gmb (64397)2717
Medium: 50% dioxan, 0.3 M NaClO4
*****
C9H7N03S2      H2L      CAS 58447-10-2 (4675)
8-Mercaptoquinoline-5-sulfonic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      sp  oth/un  ?      ? U      K1=9.2   B2=17.60 1968ABa (64422)2718
*****
C9H7N04S      H2L      Sulfoxine      CAS 84-88-8 (448)
8-Hydroxyquinoline-5-sulfonic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      vlt KNO3  RT  0.10M C I      B3=16.3  1982RBb (64509)2719
Method: polarography. Medium: 0.10 M KNO3, pH 9.5. Also data for 10-40%
MeOH/H2O and i-PrOH/H2O. In 40% MeOH/H2O, B3=17.3.
-----

```

```

-----
Cd++      gl  KCl  25°C 0.10M M I M  K1=6.39  B2=11.75 1977MLb (64510)2720
-----

```

```

-----
Cd++      sp  oth/un 25°C 0.0 U      K1=7.70  B2=14.2  1954NUa (64511)2721
-----

```

```

-----
Cd++      gl  oth/un 20°C 0.01M U      K1=7.6   B2=13.5  1953ALa (64512)2722
*****
C9H7NS      HL      CAS 76076-35-2 (5695)
2-Mercaptoquinoline;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      EMF non-aq 25°C 100% U      K1=7.0   B2=12.60 1986UBa (64611)2723
Medium: dimethylformamide, LiClO4
*****
C9H7NS      HL      Quinolinethiol CAS 491-33-8 (1028)
8-Mercaptoquinoline;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  non-aq 25°C 100% U      K1=8.3   B2=13.2  1984UBa (64642)2724
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a
-----

```

```

-----
Cd++      EMF non-aq 25°C 100% U      K1=8.3   B2=13.20 1983UBa (64643)2725
Medium: DMF, 0.1 M LiClO4
*****
C9H7NSe      HL      CAS 16396-64-8 (3867)
8-Hydroselenylquinoline;
-----

```

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

Cd++ sp diox/w 25°C 50% U K1=10.5 1965SFa (64656)2726
K(CdL+H)=0.2

Medium: 50% dioxan, 0.1 M NaClO4

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

Cd++ sp none 25°C 0.0 U K1=7.19 B2=11.39 1989LLb (64689)2727
B(CdHL)=13.40

Cd++ gl alc/w 25°C 50% U 1967NPb (64690)2728
K(Cd+2HL)=16.0

Medium: 50% MeOH, 0.1 M NaClO4

Cd++ sp NaClO4 20°C 0.10M U 1966HSb (64691)2729
K(Cd+HL)=6.96

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

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

Cd++ sp diox/w 25°C 50% U K1=1.90 1969Y0a (64777)2730

Medium: 50% v/v dioxan, 0.5 M NaClO4

Cd++ gl oth/un 25°C 0.10M U K1=1.6 1964PCa (64778)2731

Cd++ gl KCl 20°C 0.10M U K1=2.37 1957WSa (64779)2732

C9H8N2O2S HL (8279)
Dehydroxydemethyldeferrithiocin;

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

Cd++ gl KNO3 25°C 0.10M C K1=3.8 B2= 6.70 1990ARa (64801)2733

C9H8N4O5 L CAS 487-16-1 (8470)
Isatin 3-thiosemicarbazone; Indole-2,3-dione 3-(thiosemicarbazone);

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

Cd++ gl alc/w 30°C 60% M K1=5.45 B2=10.86 1996HTb (64848)2734

Medium: 60% v/v EtOH/H2O, 0.04 M KCl.

C9H8N4O2 L CAS 10065-23-3 (8471)

Isatin 3-semicarbazone; Indole-2,3-dione 3-semicarbazone;

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

Cd++ gl alc/w 30°C 60% M K1=4.81 B2= 8.97 1996HTb (64852)2735
Medium: 60% v/v EtOH/H2O, 0.04 M KCl.

C9H8O4 H3L Caffeic acid CAS 331-39-5 (6037)
3-(3,4-Dihydroxyphenyl)propenoic acid; (HO)2C6H3.CH:CH.COOH

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

Cd++ gl NaCl 25°C 0.10M U 1992CLa (64915)2736
B(CdH-1L)=-4.91
B(CdH-2L2)=-12.29
B(CdH-3L3)=-19.50

Ligand defined as H2L

C9H8O4 H2L CAS 97652-17-0 (3855)
3-Carboxy-4-methyltropolone;

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

Cd++ sp NaClO4 ? 0.20M U K1=5.23 1967GDb (64930)2737
By glass electrode: K1=5.28, K2=3.83

C9H8O4 H2L CAS 4316-23-8 (4593)
4-Methylphthalic acid; CH3.C6H3(COOH)2

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

Cd++ gl KCl 30°C 0.10M U K1=2.16 B2=3.96 1970NPb (64968)2738

C9H8O4 H2L CAS 2613-89-0 (1145)
Phenylmalonic acid; HOOC.CH(C6H5).COOH

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

Cd++ gl diox/w 25°C 40% C M K1=3.06 B2= 5.92 2001ZGa (64992)2739
B(Cd(phe)L)=7.50

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.

phe: phenylalanine.

C9H8O4S H2L CAS 135-13-7 (4620)
(2-Carboxyphenylthio)ethanoic acid; HOOC.C6H4.S.CH2.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=2.0 1962SYa (65002)2740

C9H8O5 H2L CAS 635-53-0 (3246)
2-(Carboxymethoxy)benzoic acid; HOOC.CH2.O.C6H4.COOH

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

Cd++ gl oth/un 25°C 0.10M U K1=2.0 1962SYa (65018)2741

Cd++ gl oth/un 35°C 0.01M U K1=6.4 1958YSa (65019)2742

C9H9NO3I2 H2L Iodogorgoic acid CAS 300-39-0 (2726)
2-Amino-3-(3,5-diiodo-4-hydroxyphenyl)propanoic acid, Diiodotyrosine;

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

Cd++ gl oth/un 20°C .002M U B2=6.9 1953PEa (65071)2743

Medium: 0.002 CdSO4

C9H9NO4 H2L CAS 612-42-0 (3263)
N-(Carboxymethyl)anthranilic acid; HOOC.C6H4.NH.CH2.COOH

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

Cd++ gl diox/w 35°C 50% U K1=5.1 B2=7.8 1958YSa (65105)2744

C9H9N3O2S2 HL Sulfathiazole CAS 72-14-0 (8357)
4-Amino-N-2-thiazolyl-benzenesulfonamide;

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

Cd++ gl alc/w 25°C 50% C K1=5.08 1999GAa (65129)2745

Medium: 50% EtOH/H2O, 0.10 M NaNO3.

C9H10N2O2 HL (3265)
Salicylaldehyde acetylhydrazone; HO.C6H4.CH:N.NH.CO.CH3

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

Cd++ gl alc/w 20°C 50% U K1=5.7 B2=10.6 1959HOa (65236)2746

C9H10N2O2S L CAS 622-97-9 (2600)

1-Phenyl-4,5-dihydroxyimidazolidine-2-thione;

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

Cd++ ISE mixed 25°C 82% U K1=4.75 B2=5.05 1979MTc (65243)2747

Medium: 82% DMSO/H2O

C9H10N2O3 HL CAS 62134-49-0 (9110)

N-(2-Pyridyl)-3-carboxypropanamide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	U			K1=2.80 B2= 5.10	2002GSa (65259)	2748

C9H10N2O5			H3L					(4645)		
4,5,6,7-Tetrahydroindazol-3-one-5,5-dicarboxylic acid;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K(Cd+H2L)=2.91 K(Cd+HL)=5.91	1969ZSa (65273)	2749

C9H10N2O5			H2L					CAS 130291-86-0	(8051)	
N-(2-Hydroxy-4-nitrobenzyl)glycine;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	U			K1=6.52 B2=11.61	1983CHb (65285)	2750

C9H10N6B			HL					CAS 18583-60-3	(7936)	
Hydrotris(pyrazolyl)borate;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	dis	non-aq	25°C	100%	C			K(Cd+2HL=CdL2(org)+2H)=4.4	2001KSb (65308)	2751
Method: solvent extraction into chloroform.										
K: Cd+2HL(org)=CdL2(org)+2H.										

C9H10O2S			HL					CAS 21101-79-1	(3267)	
2-Ethylthiobenzoic acid; CH3.CH2.S.C6H4.COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	20°C	50%	U			K1=3.34 B2=6.69	1956IFa (65405)	2752

C9H10O3S			HL					CAS 18619-21-2	(4637)	
(2-Methoxyphenylthio)ethanoic acid; CH3O.C6H4.S.CH2.COOH										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.10M	C			K1=0.86	1972FGb (65498)	2753
By competition with Ag+ using Ag ISE										

C9H10O3S			HL					CAS 3996-32-5	(4638)	
(3-Methoxyphenylthio)ethanoic acid; CH3O.C6H4.S.CH2.COOH										

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.79 1972FGb (65507)2754
By competition with Ag+ using Ag ISE

C9H10O3Se HL (4640)
(2-Methoxyphenylseleno)ethanoic acid; CH3O.C6H4.Se.CH2.COOH

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

Cd++ ISE KNO3 25°C 0.10M C K1=0.83 1972FGb (65520)2755
By competition with Ag+ using Ag ISE

C9H10O4 H3L CAS 39223-40-0 (1825)
3,4-Dihydroxyphenylpropanoic acid; (HO)2.C6H3.CH2.CH2.COOH

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

Cd++ gl NaClO4 30°C 0.10M U K1=7.14 1966APb (65562)2756

C9H11N L CAS 2294-75-9 (301)
2-(But-3-enyl)pyridine; C5H4N.CH2.CH2.CH:CH2

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

Cd++ gl KNO3 25°C 0.10M U K1=1.3 1974ILa (65660)2757

C9H11NOS HL CAS 36076-50-3 (4680)
N-Phenyl-N-methyl-2-mercaptoacetamide; HS.CH2.CO.N(CH3).C6H5

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

Cd++ oth diox/w 30°C 70% U K1=8.45 B2=16.37 1973BSc (65680)2758

C9H11NO2 HL Phenylalanine CAS 63-91-2 (2)
2-Amino-3-phenylpropanoic acid; H2N.CH(CH2.C6H5)COOH

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

Cd++ gl diox/w 25°C 40% C M K1=4.37 B2= 7.76 2001ZGa (65892)2759

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.

Cd++ vlt KNO3 25°C 0.10M C M K1=4.17 B2= 7.37 1998JKb (65893)2760

B3=9.90
B(CdAL)=4.66
B(CdA2L)=7.54
B(CdAL2)=10.205

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Cd++ gl NaClO4 25°C 0.20M U M K1=3.88 B2= 7.03 1997PJa (65894)2761

K(Cd(bpy)+L)=3.79
K(Cd(phen)+L)=3.82

K(CdA+L)=3.64
K(Cd(his)+L)=3.76

A is 2,2'-bipyridylamine. K(Cd(ida)+L)=3.51

Cd++ gl NaClO4 25°C 0.20M M K1=4.50 1996VBa (65895)2762

Cd++ gl NaClO4 25°C 0.20M M K1=4.505 B2= 8.10 1994VBb (65896)2763

Cd++ gl NaClO4 25°C 0.20M M K1=4.505 B2= 8.10 1994VBc (65897)2764

Cd++ vlt KNO3 25°C 1.0M C M K1=4.17 B2= 7.37 1993DKb (65898)2765
B3=9.90
B(CdAL)=6.40
B(CdA2L)=8.62
B(CdAL2)=8.94

Method: polarography. Medium pH 8.5. HA is formic acid.
K(H+L)=9.30.

Cd++ gl KNO3 25°C 0.10M C T HM K1=3.72 B2= 6.77 1993Gwa (65899)2766
K(CdL+bpy)=3.59
B(CdL(bpy))=7.80
K(CdL+phen)=3.65
B(CdL(phen))=9.39

Data for 15-45 C. DH(K1)=-26.66 kJ mol⁻¹, DS(K1)=-16.48 J K⁻¹ mol⁻¹,
DH(B2)=-51.41, DS(B2)=-38.99, DH(CdL(bpy))=-61.35, DH(CdL(phen))=-61.61.

Cd++ gl NaClO4 25°C 0.20M U T M K1=3.88 B2= 7.03 1993PPa (65900)2767
K(CdA+L)=3.65

A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++ gl alc/w 37°C 70% U M K1=4.69 B2=8.77 1993ZLa (65901)2768
Medium: 70% v/v EtOH/H2O, 0.1 M KNO3. B(CdAL)=12.51, A=vitamin B3

Cd++ gl NaClO4 25°C 0.20M U M K1=4.51 B2=8.10 1992VBa (65902)2769
B(CdL(Trp))=9.32
B(CdL(Tyr))=8.96

Cd++ gl KNO3 35°C 0.20M U M K1=3.78 B2=7.05 1989RVa (65903)2770
K(CdA+L)=3.59

A=bis(imidazol-2-yl)methane

Cd++ gl KNO3 25°C 0.20M C K1=3.60 B2= 6.79 1986SVa (65904)2771
B3=9.32

Cd++ gl NaClO4 25°C 0.70M U K1=3.44 B2= 6.43 1985SCc (65905)2772
By differential pulse polarography, K1=3.83, B2=6.98.

Cd++ gl KNO3 30°C 0.10M M M K1=3.60 B2= 7.00 1978MSi (65906)2773
K(Cd(his)+L)=2.87
B(Cd(his)L)=8.52

K(Cd(his)+OH+L)=6.69

Cd++ gl KNO3 20°C 0.37M U T K1=3.87 B2=6.73 1966SWa (65907)2774

Cd++ gl oth/un 20°C .005M U B2=7.2 1953PEa (65908)2775
Medium: 0.005 CdSO4

C9H11NO2 HL B-Phenylalanine CAS 614-19-7 (187)
3-Amino-3-phenyl-propanoic acid; H2N.CH(C6H5).CH2.COOH

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

Cd++ gl KNO3 25°C 0.20M U M K1=4.21 1988BSc (66006)2776
K(Cd(bpy)+L)=4.11

Cd++ ISE NaClO4 25°C 3.00M C K1=4.363 B2=7.935 1974WLa (66007)2777
B3=11.090

C9H11NO3 H2L Tyrosine CAS 60-18-4 (4)
2-Amino-3-(4-hydroxyphenyl)propanoic acid; HO.C6H4.CH2.CH(NH2).COOH

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

Cd++ vlt KNO3 25°C 1.0M C M 1997KKb (66193)2778

K(Cd+HL)=3.54
K(Cd+2HL)=6.11
K(Cd+3HL)=9.00
K(Cd+HL+A)=4.32

Method: polarography. K(Cd+HL+2A)=6.85, K(Cd+2HL+A)=9.71.
HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl NaClO4 25°C 0.20M M K1=4.41 1996VBa (66194)2779

Cd++ gl NaClO4 25°C 0.20M M K1=4.415 B2= 7.80 1994VBb (66195)2780

Cd++ gl NaClO4 25°C 0.20M M 1994VBc (66196)2781

K(Cd+HL)=4.415
K(Cd+2HL)=7.790

Cd++ gl NaClO4 25°C 0.20M U M K1=4.44 B2=7.75 1992VBa (66197)2782

B(CdL(Phe))=8.96
B(CdL(Ala))=8.79

Cd++ vlt KNO3 20°C 0.50M U T 1972CGb (66198)2783

K(Cd+3HL)=8.88

K(Cd+3HL)=8.87, T=30C

Cd++ gl NaNO3 20°C 0.37M U T 1971WSa (66199)2784

K(Cd+HL)=3.57
K(Cd+2HL)=6.08

Cd++ gl oth/un 20°C .002M U B2=6.4 1953PEa (66200)2785
Medium: 0.002 CdSO4

C9H11NO3 HL Phenylserine CAS 2180-37-2 (2546)
2-Amino-3-hydroxy-3-phenylpropanoic acid; C6H5.CH(OH).CH(NH2)COOH

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

Cd++ gl oth/un 17°C .005M U B2=7.0 1953PEa (66257)2786
Medium: 0.005 CdSO4

C9H11NO3 HL CAS 78547-13-4 (1897)
2-Aminoxy-3-phenyl-propanoic acid; C6H5.CH2.CH(O.NH2).COOH

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

Cd++ gl KNO3 25°C 0.50M U K1=1.51 1985WTa (66264)2787

C9H11NO4 H3L DOPA CAS 59-92-7 (5)
2-Amino-3-(3,4-dihydroxyphenyl)propanoic acid; H2NCH(CH2C6H3(OH)2)COOH

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

Cd++ gl KNO3 25°C 0.10M C M 1983DAa (66382)2788
B(CdHL)=12.81
B(CdHL2)=18.82
B(CuCdH-1L)=8.15
B(CuCdH-2L)=0.40

Cd++ vlt KNO3 30°C 1.00M U 1983GCa (66383)2789
K(Cd+H2L)=5.39
K(Cd+2H2L)=8.30
K(Cd+3H2L)=11.79

Cd++ gl NaNO3 20°C 0.50M U 1974GSa (66384)2790
K(Cd+H2L)=3.61

Cd++ gl oth/un 20°C .005M U B2=7.9 1953PEa (66385)2791
Medium: 0.005 CdSO4

C9H11NO4S H2L CAS 1080-44-0 (4682)
N-(4-Toluenesulfonyl)glycine, N-tosylglycine; CH3.C6H4.SO2.NH.CH2.COOH

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

Cd++ vlt NaClO4 25°C 0.10M U M 1991GBb (66417)2792
B(Cd(bpy)L)=7.02
K(Cd+bpy+H-1L)=9.79
K(Cd(bpy)+L)=2.77

K(Cd(bpy)+H-1L)=5.54

Cd++ gl diox/w 30°C 45% U K1=12.25 1984MYa (66418)2793
K(Cd+2HL)=7.74
K(Cd+HL+L)=9.26

Cd++ vlt oth/un 25°C 0.10M U B2=9.50 1968RFa (66419)2794

C9H11N3O2 H2L CAS 36408-72-7 (7572)
2,6-Diacetylpyridine dioxime; C5H3N(C(=NOH)CH3)2

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

Cd++ kin alc/w 25°C 24% U 1998YGa (66479)2795
*K(CdH2L)=-7.1
K1eff=4.09 (pH=7.0)
K(2CdL=Cd2L2)eff=3.48 (pH=7.0)

Medium: 24% v/v EtOH/H2O, 4% MeCN, 0.1 M NaCl.

C9H11N3O2S HL CAS 51146-75-9 (6170)
N-(2-Hydroxy-3-methoxybenzylidene)thiosemicarbazide; CH3O(OH)C6H3.CH:N.CS.NH.NH2

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

Cd++ gl diox/w 35°C 50% U I K1=6.99 1993GJa (66502)2796
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
Also data for 50% dioxane/H2O, 0.0200.2 M NaClO4. At I=0, K1=7.47.

C9H12N2O HL Atrolactamidine CAS 27906-16-1 (3878)
2-Hydroxy-2-phenylpropanoylamidine; C6H5.C(OH)(CH3)C(:NH)NH2

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

Cd++ gl KCl 25°C 0.10M U 1970GSb (66558)2797
K(Cd+HL)=2.90
K(Cd+2HL)=4.88

C9H12N2O2 HL CAS 66315-20-6 (3272)
N-2'-Aminoethylanthranilic acid; HOOC.C6H4.NH.CH2.CH2.NH2

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

Cd++ gl diox/w 35°C 50% U K1=3.5 B2=6.5 1958YSa (66587)2798

C9H12N2O4 HL (2310)
2-Amino-3-(3-methoxy-4-oxo-1,4-dihydropyridin-1-yl)propanoic acid;

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

Cd++ gl KNO3 37°C 0.15M C K1=2.73 B2=4.98 1979SPd (66613)2799

C9H12N2O4S H2L (7330)
2-Aminothiazole-N,N-dipropanoic acid; (C3H2NS)N(CH2.CH2.COOH)2

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

Cd++ gl NaNO3 25°C 0.15M U K1=2.80 1997NGa (66624)2800

C9H12N2O5S HL 2-Thiouridine (7416)
2-Thiouracil-1-ribofuranoside; 2-thiouridine;

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

Cd++ gl KCl 25°C 0.20M C K1=4.11 B2= 7.71 1997KV a (66632)2801

C9H12N2O5S HL 4-Thiouridine CAS 13957-31-8 (7415)
4-Thiouracil-1-ribofuranoside, 4-thiouridine;

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

Cd++ gl KCl 25°C 0.20M C K1=4.34 B2= 8.03 1997KV a (66635)2802

C9H12N2O10 H5L CAS 80921-06-8 (2924)
2,3-Diaminopropanoic-N,N'-di-1,3-propanedioic acid;
(HOOC)2CH.NH.CH(COOH).CH2.NH.CH(COOH)2

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

Cd++ EMF KNO3 25°C 0.10M U K1=11.61 1982KBb (66728)2803

C9H12N4O L CAS 78105-09-6 (8186)
9-(1-Ethoxyethyl)purine;

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

Cd++ kin oth/un 40°C 0.20M C K1=0.51 1980LOa (66756)2804

Medium: 0.20 M Mg(ClO4)2.

C9H13NO3 H2L (-)Adrenaline CAS 51-43-4 (252)
4-(1-Hydroxy-2-(methylamino)ethyl)-1,2-dihydroxybenzene,
Epinephrine;CH3NHCH(OH)C6H3(OH)2

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

Cd++ gl NaClO4 25°C 1.0M C 1997GCa (66849)2805

K(Cd+H2L=CdHL+H)=-6.14

K(Cd+H2L=CdL+2H)=-13.38

K(Cd+H2L=CdH-1L+3H)=-23.2

K(Cd+2H2L=CdL2+4H)=-28.67

Ligand defined as H2L. K(Cd+2H2L=CdH-1L+5H)=-38.58, K(CdHL=CdL+H)=-7.24,

K(CdL=CdH-1L+H)=-9.8, K(CdL2=CdH-1L2+H)=9.91, K(CdH-1L2=CdH-2L2+H)=-10.21

Cd++ g1 NaNO3 20°C 0.50M U 1974GSa (66850)2806
B(CdHL)=16.45

C9H13N06 H3L (3881)
2,6-Dicarboxypiperidyl-N-ethanoic acid;

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

Cd++ g1 KNO3 25°C 0.10M U K1=8.81 B2=11.80 1968KTd (66877)2807

C9H13N208PS H3L CAS 29123-25-9 (9046)
2-Thiouridine 5'-monophosphoric acid;

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

Cd++ g1 KNO3 25°C 0.10M C K1=4.93 B2= 8.50 2003SBb (66921)2808

B(CdHL)=11.31
B(CdH-2L2)=-9.28

C9H13N208PS H3L CAS 4145-46-4 (9047)
4-Thiouridine 5'-monophosphoric acid;

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

Cd++ g1 KNO3 25°C 0.10M C K1=4.76 B2= 8.49 2003SBb (66924)2809

B(CdHL)=11.06
B(CdH-2L2)=-9.06

C9H13N209P H3L UMP-5 CAS 58-97-9 (2948)
Uridine-5'-monophosphoric acid;

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

Cd++ cal R4N.X 25°C 0.10M C 2002HTb (66955)2810
Medium: 0.10 M (CH3)4NBr. DH(K1)=14.0 kJ mol⁻¹, DS(K1)=93 J K⁻¹ mol⁻¹.

Cd++ g1 R4N.X 25°C 0.10M C T K1=2.51 1991SMa (66956)2811
K(Cd+HL)=2.51

IUPAC evaluation

Cd++ g1 NaNO3 25°C 0.10M C 1988MSa (66957)2812

K(Cd+HL)=2.38

C9H13N305 L Cytidine CAS 65-46-3 (2152)
Cytidine, Cytosine-1-beta-D-ribofuranoside;

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

Cd++ gl KNO3 20°C 0.10M U K1=2.43 1999Lba (67038)2813
B(CdHL)=7.58

Cd++ nmr KCl 25°C 0.60M U K1=1.07 1992CPa (67039)2814

Cd++ gl NaNO3 25°C 0.50M C K1=0.91 1992KJa (67040)2815

C9H14N2O12P2 H4L UDP CAS 58-98-0 (3288)
Uridine-5'-diphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=4.22 1999SSa (67152)2816
K(Cd+H2L)=2.5
K(CdHL+H)=4.65

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

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

Cd++ cal R4N.X 25°C 0.10M C 2002HTb (67230)2817
Medium: 0.10 M (CH3)4NBr. DH(K1)=13.4 kJ mol⁻¹, DS(K1)=91 J K⁻¹ mol⁻¹.

Cd++ gl KNO3 20°C 0.10M U K1=2.40 1999Lba (67231)2818

Cd++ gl R4N.X 25°C 0.10M C T K1=2.53 1991SMa (67232)2819
IUPAC evaluation

Cd++ gl NaNO3 25°C 0.10M C K1=2.40 1988MSa (67233)2820

C9H14N4O3 HL Carnosine CAS 305-84-0 (272)
3-Alanyl-histidine; H2N.CH2.CH2.CO.NH.CH(CH2.C3H3N2).COOH

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

Cd++ gl KNO3 37°C 0.15M C K1=3.03 B2=5.13 1982DAa (67307)2821
B(CdHL)=11.32

Cd++ gl KNO3 25°C 0.10M U K1=3.19 1964Lma (67308)2822

Cd++ gl oth/un 25°C 0.16M U K1=2.50 B2=4.25 1960MEa (67309)2823

C9H14N5O3P H2L CAS 121149-93-7 (2512)
9-(4-Phosphonobutyl)adenine;

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

Cd++ gl NaNO3 25°C 0.10M M K1=3.08 2000GKa (67354)2824
K(Cd+HL)=1.4

K(Cd+HL)=5.10
K(Cd+H2L)=2.89

Cd++ gl NaNO3 25°C 0.10M C 1987STb (67513)2831

K(Cd+HL)=5.10
K(CdL+H)=4.24
K(Cd+H2L)=2.89

C9H15N3 L CAS 60354-75-8 (6081)
2,6-Di(2-aminoethyl)pyridine;

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

Cd++ gl NaNO3 20°C 1M C K1=6.17 1992CPb (67540)2832

C9H15N3 L CAS 72830-26-3 (3253)
2-(2-(2-Aminoethyl)aminoethyl)pyridine;

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

Cd++ gl oth/un 25°C 0.10M U K1=6.2 1964LMb (67547)2833

C9H15N3O4 HL Gly-Gly-Pro (6982)
Glycyl-glycyl-proline;

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

Cd++ gl KNO3 20°C 0.5M U K1=2.76 1974KHb (67561)2834

C9H15N3O11P2 H3L CDP CAS 63-38-7 (2187)
Cytidine-5'-diphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=4.23 1999SSa (67580)2835

K(Cd+HL)=2.50
K(CdL+H)=4.66

C9H16N2O4 H2L CAS 124099-99-6 (6518)
1,4-Diazacycloheptane-N,N'-diethanoic acid;

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

Cd++ gl NaNO3 25°C 0.10M U K1=7.39 1990HNa (67614)2836

C9H16N2O6 H2L CAS 24709-35-8 (3274)
N-(2-(2-Ethoxycarbonylamino)ethyl)iminodiethanoic acid;

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

Cd++ gl KNO3 20°C 0.10M U K1=5.86 B2=10.80 1955SAa (67624)2837

C9H16N3O14P3 H4L CTP CAS 65-47-4 (406)
Cytidine-5'-triphosphoric acid;

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

Cd++ gl R4N.X 25°C 0.10M U K1=2.05 1991LSa (67687)2838
B(CdHL)=3.15

Cd++ gl R4N.X 25°C 0.10M C T K1=5.29 1991SMa (67688)2839
K(Cd+HL)=3.16

IUPAC evaluation

Cd++ gl NaNO3 25°C 0.10M C K1=5.05 1987STb (67689)2840
K(Cd+HL)=3.15
K(CdL+H)=4.65

Cd++ gl NaNO3 25°C 0.10M C M K1=4.99 1984SSb (67690)2841
K(Cd+HL)=3.16
K(CdL+H)=4.71
K(Cd(OH)L+H)=10.0

Ternary complexes with 2,2'-bipyridyl

C9H17N05 HL Pantothenic acid CAS 63409-48-3 (2629)
N-(2,4-Dihydroxy-3,3-dimethylbutyryl)-3-aminopropanoic acid;

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

Cd++ gl KCl 25°C 0.24M U K1=1.75 1980FMd (67812)2842

C9H17N06 H2L CAS 58144-32-4 (6077)
N-(1,1-Di(hydroxymethyl)propyl)iminodiethanoic acid;
(HO.CH2)2C(CH2.CH3).N(CH2.COOH)2

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

Cd++ gl NaClO4 25°C 1.0M C K1=7.75 B2=10.65 1981ASb (67827)2843
B(CdHL)=11.79

C9H17N3O4S H2L Ala-Ala-Cys (6477)
Alanyl-alanyl-cysteine

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

Cd++ gl KCl 25°C 0.20M U B2=14.06 1990CRa (67864)2844
B(CdHL)=15.42
B(CdH2L2)=30.08
B(CdHL2)=22.34
B(CdH-1L2)=3.45

Cd++ gl KNO3 25°C 0.20M C B2=14.06 1990KUa (67865)2845
B(CdHL)=15.42
B(CdH2L2)=30.08
B(CdHL2)=22.34
B(CdH-1L2)=3.45

C9H17N3O5 H2L 2,2-DIHA CAS 709640-94-8 (9155)
N-Hydroxy-N'-[3-(hydroxymethylamino)-3-oxopropyl]-N-methyl-butanediamide;

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

Cd++ gl KNO3 25°C 0.20M C K1=6.08 2004FBa (67879)2846
B(CdHL)=12.69

C9H18N2O3 HL Ala-Leu CAS 1999-42-4 (264)
Alanyl-leucine; H2N.CH(CH3).CO.NH.CH(CH2.CH(CH3)2).COOH

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

Cd++ gl KCl 20°C 0.20M U K1=2.57 B2=4.14 1982RRd (67901)2847

Cd++ gl KNO3 20°C 0.5M U K1=3.16 1974KHb (67902)2848

C9H18N2O3 HL Sar-Leu CAS 98951-55-4 (3276)
Sarcosyl-L-leucine; CH3.NH.CH2.CO.NH.CH(CH2.CH(CH3)2).COOH

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

Cd++ gl oth/un 25°C 0.01M U K1=2.61 B2=5.16 1959DLb (67916)2849

C9H19NS2 HL CAS 150-11-8 (1154)
N,N-Di(n-butyl)dithiocarbamate; (C4H9)2N.CSSH

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

Cd++ EMF non-aq 25°C 100% U B2=13.6 1987USa (67988)2850
Medium: DMF, 0.1 M LiClO4

C9H19N2O4+ H2L (3277)
2-Di(carboxymethyl)aminoethyltrimethylammonium cation
+

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

Cd++ gl KNO3 20°C 0.10M U K1=4.62 B2=8.57 1955SAa (67998)2851

C9H20N2O2 L 13-AneN2O2 CAS 60350-15-4 (5662)
1,4-Dioxa-7,11-diazacyclotridecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U		K1=5.40	1986TSa (68036)	2852

C9H20N2S		L					CAS 35700-30-2	(2571)	
N,N'-Dibutylthiocarbamide; C4H9.NH.CS.NH.C4H9									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	alc/w	25°C	80%	U		K1=1.66 B2=3.07 B3=4.34 B4=5.13 B5=5.65	1975FFb (68067)	2853

C9H21NO2		L					(6451)		
N,N-Di(2-hydroxypropyl)(1-methylethyl)amine; CH3.CH(CH3)N(CH2.CH(OH)CH3)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	?	C		K1=1.5	1991DMa (68136)	2854

C9H21NS2							CAS 150-11-8	(8859)	
N,N-Dibutyldithiocarbamic acid; HL									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	vlt	mixed	RT	50%	C		B3=20.30	1986HSd (68149)	2855
Medium: 50% v/v DMF/H2O. Method: polarography.									

C9H21N3O		L					(2479)		
1-Oxa-4,7,11-triazacyclotridecane; cyclo(-O.(CH2.CH2.NH)2.CH2.CH2.CH2.NH.CH2.CH2-)									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U		K1=9.32 B(CdH-1L)=-0.29 K(CdL+OH)=4.21	1991ACa (68200)	2856

Cd++	gl	NaNO3	25°C	0.10M	U		K1=9.09	1986TSa (68201)	2857

C9H21N3O3		L					CAS 221233-44-9	(7658)	
cis,cis,cis-2,4,6-Trimethoxycyclohexane-1,3,5-triamine;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C		K1=8.87 B2=15.77	1999WKa (68211)	2858

C9H22N4		L					CAS 295-14-7	(9)	
1,4,7,10-Tetraazacyclotridecane; cyclo(-(NH.CH2.CH2.)4.CH2-)									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=12.71	1985THb (68244)	2859

C9H22N4			L					CAS 22217-18-1	(4657)	
N,N'-Bis(2-aminoethyl)-1,4-diazacycloheptane;										
Cd++	gl	NaNO3	25°C	0.10M	U			K1=9.18	1990HNa (68257)	2860

C9H23N3			L					CAS 3030-47-5	(4605)	
N,N,N',N'',N''-Pentamethyl-diethylenetriamine; (CH3)2NCH2CH2N(CH3)CH2CH2N(CH3)2										
Cd++	ISE non-aq		25°C	100%	C	H		K1=3.80	2001CGd (68277)	2861
Method: Cd ion selective electrode. Medium: DMSO, 0.10 M Et4NClO4.										
By calorimetry: DH(K1)=-43.5 kJ mol-1.										

C9H24N3O6P3			H3L					(7110)		
1,4,7-Triazacyclononane-1,4,7-triyltrimethylenetris(phosphinic acid);										
Cd++	gl	KNO3	25°C	0.10M	C			K1=12.521	1995BLa (68289)	2862

C9H24N3O9P3			H6L		NOTPH			CAS 83843-39-3	(224)	
1,4,7-Triazacyclononane-N,N',N''-tris(methylenephosphonic acid);										
Cd++	gl	KCl	25°C	1.0M	U			K1=19.7 K(Cd+HL)=13.9	1984KMa (68303)	2863

C9H24N4			L					CAS 129880-56-4	(1533)	
1,4,10,13-Tetraazatridecane; H2N.(CH2)2.NH.(CH2)5.NH.(CH2)2.NH2										
Cd++	gl	KNO3	25°C	1.00M	C	H		K1=8.95 B(CdH2L)=23.05	1982ABc (68333)	2864
By calorimetry: DH1=-31.0 kJ mol-1, DS1=66.9										

C9H24N4			L					CAS 4963-47-7	(546)	
Tris-(3-aminopropyl)amine;										

Cd++ gl NaNO3 20°C 0.10M U K1=8.04 1962TAb (68386)2865

C9H25N5 L (4606)
N-Methyl-N,N',N'-tris(2'-aminoethyl)ethylenediamine;

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

Cd++ gl oth/un 20°C 0.10M U K1=14.76 1971SWa (68391)2866
K(H+CdL)=4.88
K(H+CdHL)=5.08

C9H28N3O15P5 10L DTPPH CAS 15827-60-8 (2921)
Diethylenetriamine-N,N,N',N'',N''-penta(methylphosphonic acid);
H2O3PCH2.N(CH2CH2.N(CH2PO3H2)2)2 H

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

Cd++ gl KCl 25°C 0.10M U K1=13.37 1967KDa (68402)2867
K(Cd+HL)=10.76
K(Cd+H2L)=7.68
K(Cd+H3L)=6.36
K(Cd+H4L)=5.33

K(Cd+H5L)=4.40, K(Cd+H6L)=3.70, K(Cd+H7L)=1.99

C10H6O3 HL CAS 83-72-7 (3294)
2-Hydroxy-1,4-naphthoquinone;

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

Cd++ vlt oth/un 25°C 0.20M U B2=8.51 1966SPa (68456)2868
phosphate buffer

Cd++ gl diox/w 30°C 75% U K1=5.35 B2=10.23 1960KFc (68457)2869

C10H6O8 H4L Pyromellitic Ac CAS 89-05-4 (519)
Benzene-1,2,4,5-tetracarboxylic acid; C6H2.(COOH)4

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

Cd++ ISE NaClO4 25°C 1.00M C K1=2.13 B2=3.16 1979G0a (68504)2870
B(CdHL)=6.44
B(Cd2L2)=6.95

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

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

Cd++ gl diox/w 30°C 50% U K1=6.18 B2=11.38 1957CFa (68566)2871

C10H7NO2 HL CAS 14510-06-6 (4715)
2-Formyl-8-hydroxyquinoline;

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

Cd++ gl diox/w 25°C 50% U K1=6.63 B2=12.80 1972HUb (68607)2872
Medium: 50% v/v dioxan, 0.1 M KCl

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

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

Cd++ sp KCl 25°C 0.10M U K1=3.33 1970SMa (68634)2873

Cd++ gl diox/w 30°C 50% U I K1=7.96 B2=14.66 1957CFa (68635)2874
In 75% dioxan K1=8.64, K2=7.31

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

Cd++ gl oth/un 25°C 0.0 U K1=4.12 B2=6.83 1955LUa (68693)2875

C10H7NO2 HL CAS 86-59-9 (873)
Quinoline-8-carboxylic acid;

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

Cd++ gl oth/un 25°C 0.0 U K1=2.27 B2=4.69 1955LUa (68748)2876

C10H7NO5S H2L CAS 97573-20-5 (3332)
1,2-Naphthoquinone-4-sulfonic acid-2-oxime

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

Cd++ gl KCl 25°C 0.10M U 1961MAd (68800)2877
K(Cd+HL=CdL+H)=3.74

C10H7NO5S H2L CAS 14090-74-5 (2676)
1-Nitroso-2-hydroxynaphthalene-7-sulfonic acid;

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

Cd++ sp KCl 25°C 0.10M U K1=3.47 B2=6.26 1971MSf (68806)2878

C10H7NO5S H2L CAS 50332-97-3 (2660)
1-Nitroso-2-hydroxynaphthalene-5-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	M	I	K1=3.46 B2=6.1	1974Sjb	(68831)2879

C10H7NO5S		H2L					(4766)		
1-Nitroso-2-hydroxynaphthalene-6-sulfonic acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	KCl	25°C	0.10M	U		K1=3.35 B2=6.45	1971MSf	(68838)2880

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
Cd++	gl	KNO3	35°C	0.10M	U		K1=3.32	1974LSa	(68874)2881

Cd++	sp	KCl	25°C	0.10M	U		K1=3.08	1970SMa	(68875)2882

Cd++	sp	oth/un	25°C	0.0	U		K1=3.12	1966MAG	(68876)2883

C10H7NO5S		H2L					CAS 23525-13-6	(1813)	
2-Nitroso-1-hydroxynaphthalene-5-sulfonic acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	KCl	25°C	0.10M	U		K1=3.18 B2=6.14	1971MSf	(68909)2884

C10H7NO5S		H2L					CAS 26276-78-8	(4763)	
2-Nitroso-1-hydroxynaphthalene-6-sulfonic acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	KCl	25°C	0.10M	U		K1=3.02 B2=5.46	1971MSf	(68923)2885

C10H7NO5S		H2L					(4764)		
2-Nitroso-1-hydroxynaphthalene-7-sulfonic acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.01M	U	I	K1=3.79 B2=6.26	1970MSg	(68928)2886
I=0.1: K1=2.96, B2=5.29									

C10H7NO5S		H2L					CAS 31005-79-9	(1814)	
2-Nitroso-1-hydroxynaphthalene-8-sulfonic acid;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	KCl	25°C	0.10M	U		K1=3.40	1970SMa	(68938)2887

Cd++ EMF KCl 25°C 0.10M U K1=3.41 1969MSh (68939)2888

C10H7NO8S2 H3L CAS 26276-77-7 (4767)
1-Hydroxy-2-nitrosophthalene-4,8-disulfonic acid;

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

Cd++ EMF KCl 25°C 0.10M U K1=3.20 B2=5.37 1970MMh (68962)2889

Cd++ sp KCl 25°C 0.10M U K1=3.25 1970SMa (68963)2890

C10H7NO8S2 H3L Nitroso-R acid CAS 525-05-3 (1811)
1-Nitroso-2-hydroxynaphthalene-3,6-disulfonic acid;

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

Cd++ gl NaCl04 10°C 0.10M U H K1=5.81 1979GBf (68993)2891

Cd++ oth KCl 25°C 0.10M U I K1=3.4 B2=6.0 1967MAi (68994)2892
At I=0: K1=4.7, B2=6.6

Cd++ gl KCl 25°C 0.10M U 1961MAd (68995)2893
K(Cd+HL=CdL+H)=-3.46
K(CdL+HL=CdL2+H)=-4.30

C10H7NO8S2 H3L CAS 52664-45-6 (1627)
2-Nitroso-1-hydroxynaphthalene-4,6-disulfonic acid;

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

Cd++ gl KCl 25°C 0.10M M I K1=2.82 B2=4.93 19745Jb (69048)2894

C10H7NO8S2 H3L CAS 50332-99-3 (1628)
2-Nitroso-1-hydroxynaphthalene-4,7-disulfonic acid;

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

Cd++ gl KCl 25°C 0.10M M I K1=2.92 B2=4.92 19745Jb (69058)2895

C10H7N3O2S L CAS 102036-43-1 (8473)
2-(1,3-Dihydro-1,3-dioxo-2H-inden-2-ylidene)hydrazinecarbothioamide;

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

Cd++ gl alc/w 30°C 60% M K1=4.67 1996HTb (69072)2896
Medium: 60% v/v EtOH/H2O, 0.04 M KCl.

C10H7N3O3 L CAS 114526-85-1 (8474)
2-(1,3-Dihydro-1,3-dioxo-2H-inden-2-ylidene)hydrazinecarboxamide;

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  alc/w  30°C  60%  M          K1=4.47  B2= 8.57  1996HTb (69076)2897
Medium: 60% v/v EtOH/H2O, 0.04 M KCl.
*****
C10H7O2F3          HL          CAS 326-06-7 (196)
3-Benzoyl-1,1,1-trifluoroacetone; CF3.CO.CH2.CO.C6H5
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  oth/un  ?   0.0  U          B2=7.6    1951UFa (69127)2898
*****
C10H8N2          L    2,2'-Bipyridyl  CAS 366-18-7 (25)
2,2'-Bipyridine; (C5H4N)2
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      cal non-aq 25°C 100% C  H    K1=3.1    B2= 5.10  1996KSb (69465)2899
Medium: N,N-dimethylacetamide, 0.10 M Bu4N[BF4].
DH(K1)=-9.9 kJ mol-1, DH(B2)=-27.8 kJ mol-1.
-----
Cd++      gl  KNO3   25°C 0.10M C T H    K1=4.21   B2= 7.78  1993GWa (69466)2900
Data for 15-45 C. DH(K1)=-32.55 kJ mol-1, DS(K1)=-28.58 J K-1 mol-1,
DH(B2)=-45.95, DS(B2)=-5.33.
-----
Cd++      gl  alc/w  37°C  70%  C          K1=4.03   B2= 7.59  1993ZLb (69467)2901
Medium: 70% v/v EtOH/H2O, 0.10 M KNO3.
-----
Cd++      cal non-aq 25°C 100% C  HM   K1=2.91   B2=5.29   1990IOc (69468)2902
B3=6.30
Medium: DMF. DH(K1)=-13.3 kJ mol-1, DH(B2)=-30, DH(B3)=-43. Mixed complexes
(Cd-SCN-bpy): B(111)=6.83, DH=-17.7; B(121)=9.20, DH=-25.3; B(131)=10.61
-----
Cd++      vlt KNO3   35°C 0.50M C          K1=4.60   B2= 7.30  1990KKd (69469)2903
B3=9.83
Method: polarography. Medium pH 3-6.
-----
Cd++      vlt NaNO3  25°C 0.10M U    M    K1=5.1    B2=8.40   1990KZa (69470)2904
K3=2.36
B(CdGlyL)= 8.74, B(CdLGly2) = 11.01, B(CdL2Gly) = 11.05
-----
Cd++      vlt NaNO3  25°C 0.10M U    M    K1=5.10   B2=8.40   1990TZa (69471)2905
K3=2.36
B(CdL(Gly))=8.74
B(CdL(Gly)2)=11.01
B(CdL2(Gly))=11.15
-----
Cd++      cal non-aq 25°C 100% U  HM   K1=2.84   B2=5.17   1989IOc (69472)2906
B3=6.0

```

B(CdLCl)=10.5
B(CdLCl2)=15.6
B(CdLCl3)=19.4

Medium: DMF, 0.1 M Et4NClO4. B(CdL2Cl)=12.5, B(CdL2Cl2)=17.1, B(CdLBr)=9.5, B(CdLBr2)=14.22, B(CdLBr3)=17.29. Data also for Iodide

Cd++ sp NaClO4 25°C 0.01M C H K1=4.33 1988DLb (69473)2907
DH(K1)=-22.1 kJ mol⁻¹, DS(K1)=9 J K⁻¹ mol⁻¹

Cd++ vlt diox/w 25°C var U I K1=3.71 1987PSb (69474)2908
Medium: 0.18 mol dioxan/H2O, 0.1 M LiClO4. In H2O: K1=4.49; in 0.14 mol:
K1=4.00; 0.10 mol:3.95; 0.06 mol:4.08; 0.04 mol:4.10

Cd++ vlt KNO3 30°C 1.50M U K1=4.00 B2=7.20 1985KCa (69475)2909
B3=10.10

Cd++ gl NaClO4 25°C 0.30M U I K1=4.60 B2=8.40 1985SPb (69476)2910
K3=3.10

Also data in MeCN/H2O and MeOH/H2O mixtures

Cd++ gl KNO3 25°C 0.10M U M K(CdL+NTA)=9.72 1984KRb (69477)2911

Cd++ ISE KNO3 25°C 0.10M U K1=4.35 B2=8.10 1983YWa (69478)2912

Cd++ gl KNO3 25°C 0.10M C M K1=4.25 B2=7.77 1979DAb (69479)2913
B3=10.45
B(CdHL(citrate))=11.67
B(CdL(citrate))=7.38

Cd++ gl KNO3 30°C 0.10M M M K(CdL+His)=5.41 1977MSd (69480)2914

Cd++ cal non-aq 30°C 100% U M K(CdI2+L)=ca. 3 1976AGa (69481)2915

Medium: MeCN

Cd++ cal non-aq 30°C 100% U H K(CdA2+L)=2.38 1976AGc (69482)2916

In benzene. A=dibutyldithiocarbamate; DH=-43 kJ mol⁻¹; DS=-97 J K⁻¹ mol⁻¹.

Cd++ ISE alc/w 25°C 25% U I B3=9.90 1973BNb (69483)2917

Method: Cd/Hg. Medium: 0.2(LiNO3). In 50% EtOH, B2=8.93; 75% EtOH, B3=8.48.
In 25 % PrOH: B3=9.46; 50%: B3=8.13; 75%: B3=7.75

Cd++ ISE mixed 25°C 25% U I B3=9.58 1973BNb (69484)2918

Method: Cd/Hg. Medium: 0.2(LiNO3) in acetone. In 50%, B3=9.12; 75%, B3=8.84.

Cd++ oth NaClO4 30°C 0.20M U M 1972MJa (69485)2919
 B(CdLA)=6.43
 B(CdLB)=7.51

H2A=pyrocatechol, H3B=protocatechuic acid

 Cd++ ISE KNO3 35°C 0.10M U K1=3.52 B2=6.86 1967Lub (69486)2920
 B3=9.27

 Cd++ cal NaNO3 20°C 0.10M U H 1963ANb (69487)2921
 DH(K1)=-21.3 kJ mol⁻¹, DS=8.8 J K⁻¹ mol⁻¹; DH(B2)=-39.3, DS=15.5;
 DH(B3)=-58.5, DS=1.25

 Cd++ gl NaNO3 20°C 0.10M U K1=4.25 B2=7.85 1963ANg (69488)2922
 K3=2.7

 Cd++ dis KCl 25°C 0.10M U K1=4.12 B2=7.62 1962IMa (69489)2923
 K3=2.60

 Cd++ ISE KNO3 25°C 0.05M U K1=4.26 B2=7.82 1958CSa (69490)2924
 K3=2.66

By glass electrode:K1=4.28, K2=3.51, K3=2.69

 Cd++ ISE alc/w 20°C 50% U T K1=4.06 B2=7.16 1958CSc (69491)2925
 B3=9.30

Medium:50%EtOH. K1=3.99(25 C),3.93(30 C),3.78(40 C); B2=7.03(25C),6.93(30C),
 0.68(40 C); B3=9.14(25 C),8.99(30 C),8.69(40 C). Also using Cd/Hg electrode

 Cd++ ISE alc/w 20°C 50% U H 1958CSc (69492)2926
 Medium: 50% EtOH, 0.5 M KNO3. DH(K1)=-24.5 kJ mol⁻¹, DS=-6 J K⁻¹ mol⁻¹;
 DH(K2)=-17.6, DS=-0.4; DH(K3)=-11.4, DS=2.1

 Cd++ ISE alc/w 25°C 13% U I K1=4.24 B2=7.69 1958CSc (69493)2927
 B3=10.28

Medium: 12.5% EtOH, 0.05 M KNO3. Method: Cd/Hg
 In 25% EtOH: K1=4.14, B2=7.58, B3=10.02

 Cd++ gl KNO3 25°C 0.10M U K1=4.5 B2=8.0 1956YSb (69494)2928
 K3=2.5

 Cd++ vlt KNO3 25°C 0.10M U 1950DLa (69495)2929
 B3=10.47

 Cd++ vlt alc/w 25°C 29% U 1950DLa (69496)2930
 B3=10.0

Medium: 28.5% EtOH, 0.1 M

C10H8N4O4 H3L CAS 92265-25-3 (7738)

5-(o-Hydroxyphenylazo)-barbituric acid;

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

Cd++ gl alc/w 37°C 40% C K1=5.04 B2= 8.90 1998AAa (69747)2931
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.

Cd++ gl alc/w 37°C 40% C M K1=5.04 B2= 8.90 1997AAb (69748)2932
B(Cd(gly)L)=9.43
K(Cd(gly)+L)=4.30
K(CdL+gly)=4.39
B(Cd(ala)L)=9.46
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4. K(Cd(ala)+L)=4.37, K(CdL+ala)=
4.32; B(Cd(leu)L)=8.62, K(Cd(leu)+L)=4.41, K(CdL+leu)=3.58.

C10H8O2 H2L CAS 92-44-4 (1658)
2,3-Dihydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	30°C	0.20M	U	M		K(Cd(His)+L)=7.74	1974MJa (69763)2933	

C10H8O5S H3L DHNSA (877)
2,3-Dihydroxynaphthalene-6-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=8.53 B2=13.79	1984NHa (69830)2934	

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.50M	C			K1=7.70 B2=13.23	1976LAe (69831)2935	

C10H8O8S2 H4L Chromotropic ac CAS 148-25-4 (1875)
1,8-Dihydroxynaphthalene-3,6-disulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=8.90	1990HWa (69917)2936	

C10H9NO HL 8-OH-Quinaldine CAS 826-81-3 (998)
2-Methyl-8-hydroxyquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=9.00 B2=16.60	1954JFa (70033)2937	

C10H9NO HL CAS 3846-73-9 (3320)
8-Hydroxy-4-methylquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=9.44	1954JFa (70090)2938	

C10H9NO L CAS 938-33-0 (3322)
8-Methoxyquinoline;

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

Cd++ gl oth/un 25°C 0.10M U K1=1.3 1964PCa (70106)2939

C10H9NO3S H2L CAS 49608-51-7 (8280)
4,5-Dihydro-2-(2-hydroxyphenyl)-4-thiazolecarboxylic acid,
Deazademethyl-desferrithiocin;

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

Cd++ gl KNO3 25°C 0.10M C K1=8.48 B2=13.88 1990ARa (70165)2940

C10H9NO3S2 HL (7206)
6-Methyl-5-sulfo-8-mercaptoquinoline;

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

Cd++ sp oth/un 20°C 0.10M U K1=9.55 B2=18.30 1985DAb (70174)2941

C10H9NO8 H2L CAS 83785-11-9 (685)
2-Nitro-1,4-di(carboxymethoxy)benzene; O2N.C6H3.(OCH2COOH)2

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

Cd++ gl oth/un 30°C ? U K1=3.41 1985TZa (70231)2942

C10H9NS HL CAS 10222-10-3 (1029)
2-Methyl-8-mercaptoquinoline;

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

Cd++ dis NaClO4 25°C 0.10M C 1987YSb (70257)2943
Method: extraction from 0.10 M NaClO4 solution into CHCl3/HL.
K(Zn+2HL(org)=ZnL2(org)+2H)=2.70.

Cd++ gl non-aq 25°C 100% U K1=8.4 B2=14.5 1984UBa (70258)2944
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Cd++ EMF non-aq 25°C 100% U K1=8.4 B2=14.50 1983UBa (70259)2945
Medium: DMF, 0.1 M LiClO4

C10H9NS HL CAS 13982-83-7 (1030)
4-Methyl-8-mercaptoquinoline;

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

Cd++ gl non-aq 25°C 100% U K1=8.1 B2=14.2 1984UBa (70274)2946

Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Cd++ EMF non-aq 25°C 100% U K1=8.1 B2=14.20 1983UBa (70275)2947
Medium: DMF, 0.1 M LiClO4

C10H9NS HL CAS 66493-38-7 (5688)
5-Methyl-8-mercaptoquinoline;

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

Cd++ EMF non-aq 25°C 100% U K1=8.2 B2=15.20 1986UBa (70281)2948
Medium: dimethylformamide, LiClO4

C10H9NS HL CAS 15759-04-3 (1031)
6-Methyl-8-mercaptoquinoline;

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

Cd++ gl non-aq 25°C 100% U K1=9.3 B2=16.4 1984UBa (70288)2949
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Cd++ EMF non-aq 25°C 100% U K1=9.3 B2=16.40 1983UBa (70289)2950
Medium: DMF, 0.1 M LiClO4

C10H9NS HL CAS 15759-05-4 (1032)
7-Methyl-8-mercaptoquinoline;

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

Cd++ gl non-aq 25°C 100% U K1=9.8 B2=16.0 1984UBa (70300)2951
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a

Cd++ EMF non-aq 25°C 100% U K1=9.8 B2=16.00 1983UBa (70301)2952
Medium: DMF, 0.1 M LiClO4

C10H9NS2 HL CAS 32433-56-0 (5691)
5-Thiomethyl-8-mercaptoquinoline;

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

Cd++ EMF non-aq 25°C 100% U K1=7.3 B2=12.80 1986UBa (70308)2953
Medium: dimethylformamide, LiClO4

C10H9NS2 HL CAS 91330-90-0 (5693)
7-Thiomethyl-8-mercaptoquinoline;

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

Cd++ EMF non-aq 25°C 100% U K1=7.8 B2=13.80 1986UBa (70313)2954
Medium: dimethylformamide, LiClO4

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

Cd++ gl KNO3 25°C 0.10M U TIH K1=2.89 B2=4.98 1976BBe (70332)2955

Cd++ EMF KNO3 20°C 0.10M U K1=2.6 1971ANa (70333)2956

C10H9N3OS HL CAS 60321-26-8 (4671)
2-(2-Thiazolylazo)methylphenol; C3H2NS.N:N.C6H3(CH3)OH

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

Cd++ sp diox/w 25°C 10% U T K1=7.72 1973KSd (70355)2957
Medium: 10% dioxan, 0.1 M KNO3. 15 C: K1=7.75; 35 C: K1=7.68

C10H9N3OS2 L CAS 59224-23-6 (8472)
3-(2-Oxo-3-indolinyldene)dithiocarbazic acid methyl ester;

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

Cd++ gl alc/w 30°C 60% M K1=4.16 B2= 8.26 1996HTb (70376)2958
Medium: 60% v/v EtOH/H2O, 0.04 M KCl.

C10H9OBrS HL CAS 87112-37-6 (8334)
p-Bromobenzoylthioacetone;

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

Cd++ gl diox/w 30°C 75% U K1=8.03 B2=15.81 1991CAb (70422)2959
Medium: 75% v/v dioxane/H2O, 0.10 M KCl.

C10H9O2Br HL CAS 4023-81-8 (1182)
4-Bromo-1-phenyl-1,3-butanedione; Br.C6H4.CO.CH2.CO.CH3

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

Cd++ gl diox/w 30°C 75% U K1=8.66 B2=14.75 1976GRa (70431)2960

C10H9O2Cl HL CAS 64743-36-8 (308)
1-(4-Chlorophenyl)butane-1,3-dione; Cl.C6H4.CO.CH2.CO.CH3

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

Cd++ gl diox/w 30°C 75% U B2=15.37 1976BRd (70445)2961

C10H10N2 L CAS 26628-04-2 (3300)
8-Aminoquinoline (8-Amino-2-methylquinoline)

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  oth/un 25°C 0.10M U          K1=1.7        1964PCa (70526)2962
*****
C10H10N2O3S          H2L          CAS 76045-30-2 (7218)
Desferriferrithiocin,
2-(3-Hydroxypyridin-2-yl)-4-methyl-4,5-dihydrothiazole-4-carboxylic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3  25°C 0.10M C          K1=7.40  B2=14.17  1990ARa (70555)2963
*****
C10H10N4O2S          HL  Sulfadiazine  CAS 68-35-9 (1885)
4-Amino-N-(2-pyrimidinyl)benzenesulfonamide; C4H3N2NHSO2C6H4NH2
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  mixed 25°C 65% U T          K1=3.82  B2=6.46  1982KNc (70604)2964
Medium: 65% DMSO/H2O, 0.1 KNO3
*****
C10H10O5          HL          CAS 13522-48-0 (4722)
3-Mercapto-1-phenylbut-2-en-1-one; C6H5.CO.CH:CH.C(SH).CH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 30°C 75% U I          K1=6.26  B2=12.23  1969LSa (70632)2965
Medium: 75% dioxan, 0.018 M NaCl
In 0.017 NaClO4, 74.5% dioxan: K1=8.23, K2=7.80
*****
C10H10O2          HL  Benzoylacetone  CAS 93-91-4 (197)
1-Phenylbutane-1,3-dione; C6H5.CO.CH2.CO.CH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       dis NaClO4 25°C 1.0M U I          K1=3.60  B2=6.00  1977SIb (70694)2966
-----
Cd++       dis NaClO4  ?  0.10M U          K1=3.96  B2=4.0   1960STb (70695)2967
-----
Cd++       gl  diox/w 30°C 75% U          K1=7.79  B2=14.36  1959MFa (70696)2968
-----
Cd++       gl  diox/w 30°C 75% U          K1=7.79  B2=14.54  1953UFa (70697)2969
*****
C10H10O4          H2L          CAS 616-75-1 (4700)
Benzylmalonic acid; HOOC.CH(CH2.C6H5).COOH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 25°C 40% C          M  K1=3.25  B2= 6.43  2001ZGa (70818)2970
B(Cd(phe)L)=8.02
-----

```

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.

phe: phenylalanine.

C10H1006 H2L CAS 5411-14-3 (2394)
1,2-Phenylenedioxodiethanoic acid; C6H4(O.CH2.COOH)2

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

Cd++ gl NaClO4 25°C 0.10M U K1=3.8 1968SMb (70842)2971

C10H11N03S H2L Benzoylcysteine CAS 60199-84-0 (2580)
N-Benzoyl-2-amino-3-mercaptopropanoic acid; C6H5.CO.NHCH(COOH)CH2SH

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

Cd++ gl NaNO3 25°C 0.15M U 1979ZNa (70954)2972

K(Cd+2HL)=8.70
K(CdHL2+H)=8.12
K(CdL2+H)=9.41

C10H11N04 H2L CAS 1137-73-1 (2567)
N-Phenyliminodiethanoic acid; C6H5.N(CH2.COOH)2

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

Cd++ gl oth/un 25°C 0.10M U K1=2.8 1959SYc (70991)2973

Cd++ gl KNO3 20°C 0.10M U K1=2.16 1955SAa (70992)2974

C10H11N05 H3L CAS 100844-86-8 (2108)
N-(2-Hydroxyphenyl)iminodiethanoic acid; HO.C6H4.N(CH2.COOH)2

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

Cd++ EMF oth/un ? ? U K1=7.56 1968TRc (71034)2975

K(Cd+HL)=3.22

C10H11N05S H2L (3929)
N-(2-Thenoylmethyl)iminodiethanoic acid; C4H3S.CO.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=7.43 B2=12.36 1965AUa (71059)2976

C10H1104As H2L CAS 51525-18-9 (3907)
As-Phenylarsinodiethanoic acid; C6H5.As(CH2.COOH)2

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

Cd++ gl KNO3 20°C 0.10M U K1=1.0 1964PIa (71127)2977

C10H1104P H2L CAS 58942-13-5 (7014)
Phenylphosphino-P,P-diethanoic acid, Diphenylphosphinediethanoic acid;

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

Cd++ gl NaClO4 25°C 0.10M U K1=3.08 B2=8.6 1979POa (71136)2978

C10H12N2 L Tolazoline CAS 59-97-2 (1036)
2-Benzyl-2-imidazoline; C6H5.CH2.C3H5N2

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

Cd++ gl KNO3 25°C 0.50M U K1=1.90 B2=3.69 1983LWa (71154)2979
B3=5.35
B4=6.90
B5=8.30

C10H12N2O HL Serotonin CAS 153-98-0 (4735)
5-Hydroxytryptamine (5-hydroxy-3-(2-aminoethyl)indole)

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

Cd++ gl NaClO4 20°C 0.37M U K1=3.6 1971WSd (71168)2980
K(Cd+HL)=3.14

C10H12N2O2 HL CAS 89314-29-4 (8507)
2-[(4-Methylphenyl)hydrazono]-propanoic acid;

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

Cd++ gl alc/w 30°C 40% M M K1=4.10 B2= 6.35 1995RRe (71190)2981
K(CdL+A)=7.40
K(CdL+en)=6.76
K(CdL+pro)=4.69
K(CdL+B)=4.10

Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. K(CdL+ala)=4.02, K(CdL+gly)=4.00.
H2A is catechol, HB is hydroxyproline.

Cd++ gl alc/w 30°C 40% M M 1995RRe (71191)2982
K(Cd(phe)+L)=3.88
K(CdA+L)=3.58

Medium: 40% v/v EtOH/H2O, 0.10 M KNO3. H2A is salicylic acid.

C10H12N2O3S HL CAS 93100-65-3 (6199)
2-(2-Pyrrolideneamino)benzene sulfonic acid; C4H7N:N.C6H4.HSO3

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

Cd++ gl NaClO4 25°C 0.10M U T H K1=6.08 1987RDb (71209)2983

35 C:K=6.24, 45 C:6.47. DH=35.38 kJ mol⁻¹, DS=230 J K⁻¹ mol⁻¹

C10H12N2O4 H2L CAS 16598-05-3 (967)
2-Pyridylmethyliminodiethanoic acid; C5H4N.CH2.N(CH2.COOH)2

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

Cd++ gl NaNO3 20°C 0.10M C H K1=10.00 B2=15.25 1981ANb (71240)2984
DH(K1)=-27.6 kJ mol⁻¹ DS=97.1 J K⁻¹ mol⁻¹ DH(K2)=-24.3 DS=17.6
additional method: exchange equilibria and ion selective electrode

Cd++ gl KNO3 25°C 0.10M C K1=8.62 B2=15.72 1975IPa (71241)2985

Cd++ gl KNO3 20°C 0.10M U K1=9.45 B2=14.74 1963IFc (71242)2986

C10H12N2O4 H2L CAS 91856-13-2 (8436)
DL-N-(4-Aminophenyl)aspartic acid;

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

Cd++ gl NaCl 25°C 0.50M C K1=2.20 1984RFb (71289)2987

C10H12N2O4 HL (6004)
N-Benzyloxycarbonylglycyl hydroxamic acid; C6H5.CH2.O.CO.NH.CH2.CO.NHOH

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

Cd++ gl KNO3 25°C 0.10M U K1=4.2 1987CSb (71299)2988

C10H12N2O5S HL (6278)
2-Benzenesulfonamidossuccinamic acid; C6H5.SO2.NH.CH(CO.NH2).CH2.COOH

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

Cd++ gl alc/w 25°C 50% U K1=5.17 1978GMc (71312)2989

C10H12N4O4S HL 6-Thioinosine CAS 574-25-4 (7418)
6-Mercaptopurine-9-ribofuranoside;

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

Cd++ gl KCl 25°C 0.20M C K1=5.32 B2=10.55 1997KV a (71333)2990
B(CdH-1L2)=-0.20

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

Cd++ nmr NaNO3 27°C 0.10M U 1981SHa (71379)2991

K(Cd+HL)=0.86

C10H12N4O6 H2L Xanthosine CAS 5968-90-1 (1176)
3,9-Dihydro-9-ribofuranosyl-1H-purine-2,6-dione;

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

Cd++ gl NaNO3 25°C 0.10M C K1=0.70 1989Kta (71465)2992
K(Cd+H-1L)=1.96

C10H12O2 HL CAS 1946-74-3 (202)
3-Isopropyltropolone;

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

Cd++ gl diox/w 30°C 50% U M K1=11.65 B2=18.32 1980Ksa (71563)2993
K(Cd(bpy)+L)=6.41

Cd++ dis NaClO4 25°C 0.10M U K1=5.27 B2=9.94 1962DYa (71564)2994
K3=3.78

C10H12O2 HL CAS 499-44-5 (3303)
4-Isopropyltropolone;

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

Cd++ dis non-aq 25°C 100% C M K1=4.9 1997SNa (71628)2995
K(Cd+2L=CdL2(org))=10.3
K(2Cd+4L=Cd2L4(org))=26.7

Method: solvent extraction from 0.10 M NaNO3 into CHCl3.

K is for: nCd(aq)+2nL(aq)=(Cd)nL2n(org). K1 refers to 0.10 M NaNO3.

C10H13N L CAS 100190-73-6 (302)
2-(Pent-4-enyl)pyridine; C5H4N.CH2.CH2.CH2.CH:CH2

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

Cd++ gl KNO3 25°C 0.10M U K1=1.0 1974ILa (71691)2996

C10H13N2O11P H3L Orotidylic acid CAS 68244-58-6 (6665)
Orotidine-5'-monophosphoric acid, uridine-5-carboxylic acid-5-monophosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.91 1991BSc (71788)2997
K(CdH-1L+H)=7.66

C10H13N4O8P H3L IMP CAS 131-99-7 (843)
Inosine-5'-monophosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	cal	R4N.X	25°C	0.10M	C				2002HTb (71847)	2998

Medium: 0.10 M (CH3)4NBr. DH(K1)=-3.9 kJ mol⁻¹, DS(K1)=42 J K⁻¹ mol⁻¹.

Cd++	gl	NaNO3	25°C	0.10M	M				1994SMb (71848)	2999
------	----	-------	------	-------	---	--	--	--	-----------------	------

K(Cd+HL)=2.88
*K(CdHL)=-7.45

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
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	gl	KNO3	20°C	0.10M	U			K1=2.32	1999Lba (71935)	3000
------	----	------	------	-------	---	--	--	---------	-----------------	------

Cd++	nmr	NaNO3	27°C	0.10M	U			K1=-0.11	1981SHa (71936)	3001
------	-----	-------	------	-------	---	--	--	----------	-----------------	------

Cd++	nmr	non-aq	21°C	100%	U			K1=0.53	1973SFa (71937)	3002
------	-----	--------	------	------	---	--	--	---------	-----------------	------

Medium : (CH3)2SO

C10H13N5O4S HL Thioguanosine CAS 85-31-4 (7419)
2-Amino-6-mercaptapurine riboside, 6-mercapto-2-aminopurine riboside;

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

Cd++	gl	KCl	25°C	0.20M	C			K1=5.18 B2=11.10	1997KVa (71961)	3003
------	----	-----	------	-------	---	--	--	------------------	-----------------	------

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
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	gl	KNO3	25°C	1.00M	U			K1=3.13 K(Cd+HL)=1.58	1989TRb (71998)	3004
------	----	------	------	-------	---	--	--	--------------------------	-----------------	------

Cd++	nmr	NaNO3	27°C	0.10M	U			K(Cd+HL)=1.17	1981SHa (71999)	3005
------	-----	-------	------	-------	---	--	--	---------------	-----------------	------

Cd++	nmr	non-aq	21°C	100%	U			K(Cd+HL)=-0.69	1973SFa (72000)	3006
------	-----	--------	------	------	---	--	--	----------------	-----------------	------

Medium: (CH3)2SO

Cd++	gl	oth/un	20°C	0.01M	U			K1=4.0	1953ALa (72001)	3007
------	----	--------	------	-------	---	--	--	--------	-----------------	------

C10H14N2O4S H2L (6995)
2-Amino-4-methylthiazolyl-N,N-di(propanoic acid); CH3.C3H2NS.N(CH2CH2COOH)2

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

Cd++ gl NaNO3 25°C 0.15M U K1=2.90 1997NGa (72080)3008

C10H14N2O7 H3L CAS 95175-15-8 (5705)
2,5-Diazacyclohexanon-1-2(butane-1,4-dioic)-6-ethanoic acid;

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

Cd++ gl KNO3 25°C 0.10M U K1=2.8 1990VZa (72118)3009
K(Cd+HL)=2.13

C10H14N5O6PS H2L AMPS CAS 19341-57-2 (8152)
Adenosine-5'-monothiophosphoric acid, 5-Thioadenylic acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=4.62 1997SSg (72147)3010
K(Cd+HL)=3.25
K(CdL+H)=3.46

Cd++ gl KNO3 25°C 0.10M U K1=4.62 1995SSe (72148)3011

C10H14N5O7P H2L AMP-2 CAS 81012-86-4 (2437)
Adenosine-2'-monophosphoric acid, 2-Adenylic acid;

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

Cd++ gl NaNO3 25°C 0.10M U K1=2.41 1989MSf (72176)3012

C10H14N5O7P H2L AMP-3 CAS 84-21-9 (2438)
Adenosine-3'-monophosphoric acid, 3-Adenylic acid;

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

Cd++ gl NaNO3 25°C 0.10M U K1=2.32 1989MSf (72224)3013

C10H14N5O7P H2L AMP-5 CAS 18422-05-4 (842)
Adenosine-5'-monophosphoric acid, 5-Adenylic acid;

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

Cd++ gl NaNO3 25°C 0.10M M K1=2.74 2003BSa (72380)3014
K(CdL+H)=4.62
K(Cd+HL)=1.15

Cd++ cal R4N.X 25°C 0.10M C 2002HTb (72381)3015
Medium: 0.10 M (CH3)4NBr. DH(K1)=3.4 kJ mol⁻¹, DS(K1)=63 J K⁻¹ mol⁻¹.

Cd++ gl NaNO3 25°C 0.10M C M K1=2.65 2000KHa (72382)3016
K(CdL+A)=2.73
B(CdLA)=5.18

H2A=salicylhydroxamic acid.

Cd++ gl KNO3 20°C 0.10M U K1=2.48 1999Lba (72383)3017

Cd++ gl NaNO3 25°C 0.10M M K1=2.74 1996SSd (72384)3018

Cd++ gl R4N.X 25°C 0.10M C T K1=3.04 1991SMa (72385)3019
IUPAC evaluation

Cd++ gl NaNO3 25°C 0.10M U K1=2.68 1989MSf (72386)3020

Cd++ gl NaNO3 25°C 0.10M C K1=2.68 1988SMb (72387)3021

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

Cd++ cal R4N.X 25°C 0.10M C 2002HTb (72571)3022
Medium: 0.10 M (CH3)4NBr. DH(K1)=-5.9 kJ mol⁻¹, DS(K1)=37 J K⁻¹ mol⁻¹.

Cd++ gl NaNO3 25°C 0.10M M 1994SMb (72572)3023
K(Cd+HL)=2.98
*K(CdHL)=-7.91

Cd++ gl NaNO3 25°C 0.10M C K1=2.98 1988MSd (72573)3024
K(Cd+HL)=2.98

C10H15NO L Ephedrine CAS 299-42-3 (1836)
(1-Methylaminoethyl)benzyl alcohol; C6H5.CH(OH)CH(CH3)NHCH3

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

Cd++ vlt KNO3 45°C 0.10M U T H B2=5.55 1964ARa (72641)3025
B2=6.94(0 C),6.49(25 C). DH(B2)=-45.1 kJ mol⁻¹, DS=-33 J K⁻¹ mol⁻¹

C10H15N2O8P H2L TMP-5 CAS 365-07-1 (2949)

Thymidine-5'-monophosphoric acid, Thymidylic acid;

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

Cd++ gl R4N.X 25°C 0.10M C T K1=2.55 1991SMa (72692)3026
K(Cd+HL)=2.55

IUPAC evaluation

Cd++ gl NaNO3 25°C 0.10M C 1988MSa (72693)3027
K(Co+HL)=2.42

C10H15N4O14P3 H5L ITP CAS 35908-31-7 (2148)

Inosine 5'-triphosphoric acid;

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.10M C
                                     K(Cd+HL)=5.62
                                     K(CdHL+H)=4.4
                                     K(Cd+H2L)=3.55

```

```

*****
C10H15N5O9P2S      H3L      CAS 59286-20-3 (8421)
Adenosine-5'-(1-thiodiphosphoric acid);
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      nmr  KNO3  30°C 0.10M C      K1=4.95      1984PHc (72829)3029
                                     K(Cd+HL)=2.18
                                     *K(CdL)=-4.00

```

```

Method: 31P nmr.
*****
C10H15N5O10P2      H3L      ADP      CAS 20398-34-9 (2181)
Adenosine-5'-diphosphoric acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.10M M      K1=4.63      2003BSa (72925)3030
                                     K(CdL+H)=4.34
                                     K(Cd+HL)=2.57

```

```

-----
Cd++      gl  NaNO3  25°C 0.10M C      M      K1=3.90      2000KHa (72926)3031
                                     K(CdL+A)=4.02
                                     B(CdLA)=7.92

```

H2A=salicylhydroxamic acid.

```

-----
Cd++      nmr  KNO3  30°C 0.10M C      K1=3.58      1984PHc (72927)3032
                                     K(Cd+HL)=1.74
                                     *K(CdL)=-4.82

```

```

Method: 31P nmr.
*****
C10H16N2O3S      HL      Vitamin H      CAS 58-85-5 (410)
D-Biotin (Coenzyme R);
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      nmr  NaClO4 27°C 3.00M U      K1=-0.9      1982SSb (73047)3033
Medium: D20

```

```

-----
Cd++      EMF diox/w 25°C 50% U      K1=2.64      1978SPa (73048)3034
*****
C10H16N2O8      H4L      EDDS      CAS 52759-67-8 (1100)
1,2-Diaminoethane-N,N'-di-1,4-butanedioic acid; (CH2.NH.CH(COOH)CH2.COOH)2
-----

```

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=10.3 K(Cd+HL)=4.5	1990VZa (73097)	3035
Cd++	gl	KNO3	30°C	1.0M	U			K1=6.35	1972TSf (73098)	3036
Cd++	gl	KNO3	20°C	0.10M	U			K1=10.94	1968MJa (73099)	3037
By paper electrophoresis: K1=10.4										
Cd++	sp	KNO3	20°C	0.10M	U			K1=11.5	1966MSg (73100)	3038

C10H16N2O8 H4L EDTA CAS 60-00-4 (120)										
1,2-Diaminoethane-N,N,N',N'-tetraethanoic acid, Sequestric acid;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C			K1=16.42	2001CKb (73476)	3039
Method: cyclic voltammetry. Medium: pH 10.										
Cd++	oth	NaClO4	25°C	2.0M	U			K1=13.98 K(Cd+HL)=7.65 K(CdL+H)=2.30	1998KLc (73477)	3040
Method: chronopotentiometry										
Cd++	vlt	oth/un	25°C	0.70M	C			K1=7.16	1995Lba (73478)	3041
Cd++	gl	NaClO4	37°C	0.10M	U			K1=15.9	1992GHa (73479)	3042
Method: coulometric titration										
Cd++	cal	KNO3	25°C	1.5M	C	TI		K1=15.44 DH1=-44.39 kJ/mol	1991VBa (73480)	3043
For 35 C, I=1.5:K1=15.19; DH1=-44.46;For 15 C, I=1.5: K1=15.71;DH1=-44.48										
For 35 C, I=0.5:K1=15.41; DH1=-41.34;For 15 C, I=0.5: K1=15.89;DH1=-43.40										
Cd++	cal	none	25°C	0.0	C	H			19900Ba (73481)	3044
Medium: pH 8.7. DH(K1)=-40.90 kJ mol ⁻¹ .										
Cd++	vlt	KCl	25°C	0.30M	U			K1=16.49	1988HPa (73482)	3045
Cd++	cal	KNO3	25°C	1.50M	U	HM		K(CdA+L)=1.1	1987VBd (73483)	3046
H2A=Iminodiethanoic acid; DH(CdA+L)=-7.9 kJ mol ⁻¹										
Cd++	sp	NaClO4	20°C	1.00M	U	M		B(CdL(NH3))=18.2	1985BAc (73484)	3047
Cd++	cal	KNO3	25°C	1.50M	U	H		K(CdL+OH)=0.6	1985VKa (73485)	3048
DH(CdL+OH)=-5.9 kJ mol ⁻¹										

Cd ⁺⁺	gl	NaCl	37°C	0.15M	C	K1=13.82	1984DMb (73486)3049
Cd ⁺⁺	ISE	KNO3	25°C	0.10M	U	K1=14.27	1983YWa (73487)3050
Cd ⁺⁺	gl	NaCl	37°C	0.15M	U	K1=13.790 B(CdHL)=16.515	1982HFa (73488)3051
Cd ⁺⁺	EMF	KCl	20°C	0.10M	C	K1=16.4	1981SFa (73489)3052
Method: Pt/H ₂ electrode.							
Cd ⁺⁺	ISE	KNO3	25°C	1.00M	U	K1=15.17 B(CdHL)=17.67 B(CdH ₂ L)=19.24 B(Cd ₂ L)=16.58	1980JAA (73490)3053
Cd ⁺⁺	sol	KNO3	25°C	1.00M	U	K(CdL+H)=2.92	1979JPa (73491)3054
Cd ⁺⁺	sol	KNO3	25°C	1.00M	U	K(CdL+H)=2.70 K(CdHL+H)=1.79	1979JPb (73492)3055
Cd ⁺⁺	gl	KNO3	20°C	0.10M	U	K1=16.64	1978NLb (73493)3056
Cd ⁺⁺	oth	NaClO ₄	25°C	2.00M	U	K1=13.98 K(Cd+CdL)=2.30 K(Cd+HL)=7.65	1977KLb (73494)3057
Method: chronopotentiometry							
Cd ⁺⁺	gl	NaClO ₄	25°C	1.00M	C	K1=14.25 B(CdHL)=17.41 B(CdH ₂ L)=19.71 B(CdH ₃ L)=21.35	19770Ma (73495)3058
Cd amalgam electrode also used							
Cd ⁺⁺	gl	NaClO ₄	25°C	3.00M	C	K1=14.68 B(CdHL)=17.43	1976CWA (73496)3059
Cd ⁺⁺	gl	NaClO ₄	25°C	2.00M	U	K1=14.94 K(Cd+HL)=8.78 K(CdL+H)=2.39	1975LNa (73497)3060
Cd ⁺⁺	ISE	oth/un	25°C	3.00M	U	B(CdLBr)=16.47 B(CdLI)=16.80	1974ADa (73498)3061
Cd ⁺⁺	gl	oth/un	25°C	0.10M	U	H	K1=16.3
DH(K1)=-45.1 kJ mol ⁻¹							

Cd++	oth NaClO4	25°C	0.10M	U	I	1973HHb (73500)3063
						$K(\text{Co(L)Cl}+\text{Cd}=\text{Co}(\text{CdL)Cl})=1.49$
						I=1.0: $K(\text{Co(L)Cl}+\text{Cd})=1.08$
Cd++	cal KNO3	25°C	0.10M	U		1969BNa (73501)3064
						$K_1=16.54$ $K(\text{CdL}+\text{H})=2.93$ $K(\text{Cd}+\text{HL})=9.07$
Cd++	vlt KCl	?	0.40M	U		1969SVd (73502)3065
Cd++	oth oth/un	42°C	?	U	T HM	1968LPa (73503)3066
						Method: ultrasonic. $K_1=15.32(32\text{ C})$, $\text{DH}_1=105.3(?)\text{ kJ mol}^{-1}$, $\text{DS}=476(?)$
						Ternary complexes with oxalic acid
Cd++	oth KNO3	20°C	0.10M	U		1965JMb (73504)3067
						Method: electrophoresis
Cd++	vlt KNO3	25°C	0.20M	U		19650Ga (73505)3068
Cd++	cal KNO3	25°C	0.10M	U	H	1965WHa (73506)3069
						$\text{DH}(K_1)=-42.2\text{ kJ mol}^{-1}$, $\text{DS}=176\text{ J K}^{-1}\text{ mol}^{-1}$
Cd++	gl KNO3	20°C	0.10M	U		1964ANa (73507)3070
						$K_1=16.46$ $K(\text{Cd}+\text{HL})=9.1$
Cd++	cal KNO3	20°C	0.10M	U	H	1963ANf (73508)3071
						$\text{DH}(K_1)=-37.9\text{ kJ mol}^{-1}$, $\text{DS}=184\text{ J K}^{-1}\text{ mol}^{-1}$
Cd++	sol KNO3	25°C	2.0M	U		1963FVa (73509)3072
						$K(?)=10.02$
Cd++	dis NaClO4	20°C	0.10M	U		1963STc (73510)3073
Cd++	EMF NaNO3	22°C	0.10M	U	T	1957SAb (73511)3074
						Method: H electrode
Cd++	gl oth/un	20°C	0.17M	U	H	1956CSb (73512)3075
						$\text{DH}(K_1)=-42.2\text{ kJ mol}^{-1}$, $\text{DG}=-92.34$, $\text{DS}=171\text{ J K}^{-1}\text{ mol}^{-1}$
Cd++	EMF oth/un	25°C	0.0	U	H	1956MAa (73513)3076
						Method: H electrode. $\text{DS}(K_1)=146\text{ J K}^{-1}\text{ mol}^{-1}$
Cd++	ISE NaClO4	25°C	0.10M	U		1956SRb (73514)3077
Cd++	cal oth/un	25°C	0.05M	U	H	1954CHa (73515)3078
						Medium: $\text{Cd}(\text{NO}_3)_2$. $\text{DH}(K_1)=-38.0\text{ kJ mol}^{-1}$, $\text{DS}=159\text{ J K}^{-1}\text{ mol}^{-1}$
Cd++	vlt KNO3	20°C	0.10M	U	T	1954SGa (73516)3079
						$K_1=16.46$ $K(\text{CdL}+\text{H})=4.34$ $K(\text{Cd}+\text{HL})=9.10$

In 0.1 M KCl, glass electrode K1=16.59

Cd++ sp KNO3 30°C 0.10M U K1=15.0 1953HMa (73517)3080

C10H16N2O8S2 H4L CAS 20206-12-1 (996)
2,9-Diamino-5,6-dicarboxy-4,7-dithiadecanedioic acid;

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

Cd++ gl NaClO4 25°C 0.10M U K1=14.77 1978MJa (74365)3081

C10H16N2O9 H4L CAS 616-90-0 (2615)
Bis-(2-aminoethylether)-N,N'di(1,3-propanedioic acid); ((HOOC)2CH.NH.CH2.CH2)2O

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

Cd++ EMF KNO3 25°C 0.10M U K1=11.17 1979KBe (74372)3082

C10H16N2O11P2 H4L CAS 491-97-4 (7674)
Thymidine-5'-diphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M M K(Cd+HL)=4.15 1999SSa (74385)3083

C10H16N5O12P3S H4L CAS 58976-48-0 (8420)
Adenosine-5'-(1-thiotriphosphoric acid);

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

Cd++ nmr KNO3 30°C 0.10M C K1=4.92 1984PHc (74399)3084
K(Cd+HL)=2.46
*K(CdL)=-4.19

Method: 31P nmr. For adenosine-5'-(2-thiophosphoric acid), K1=5.44,
K(Cd+HL)=2.98, *K(CdL)=-4.18.

C10H16N5O13P3 H4L ATP CAS 56-65-5 (403)
Adenosine-5'-triphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M C M K1=4.55 2000KHa (74608)3085
K(CdL+A)=5.10
B(CdLA)=9.65

H2A=salicylhydroxamic acid.

Cd++ gl R4N.X 25°C 0.10M U K1=5.34 1991LSa (74609)3086
B(CdHL)=3.04

Cd++ gl R4N.X 25°C 0.10M C T K1=5.68 1991SMa (74610)3087
K(Cd+HL)=3.00

IUPAC evaluation

Cd++ gl NaNO3 25°C 0.10M C K1=5.34 1987STb (74611)3088
K(Cd+HL)=3.04
K(CdL+H)=4.17

Cd++ gl KNO3 30°C 1.0M U K1=5.41 1984CCc (74612)3089
K(Cd+HL)=2.70
From 1Hnmr in D2O, K1=4.71, K(Cd+HL)=3.30.

Cd++ nmr KNO3 30°C 0.10M C K1=4.36 1984PHc (74613)3090
K(Cd+HL)=1.88
*K(CdL)=-4.15

Method: 31P nmr.

Cd++ gl NaNO3 25°C 0.10M C M K1=5.31 1984SSb (74614)3091
K(Cd+HL)=2.95
K(CdL+H)=4.15
K(Cd(OH)L+H)=10.1

Ternary complexes with 2,2'-bipyridyl

C10H16N5O14P3 H5L GTP CAS 86-01-1 (404)
Guanosine-5'-triphosphoric acid;

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

Cd++ gl NaNO3 25°C 0.10M C 2001SBc (74870)3092
K(Cd+HL)=5.82
K(CdHL+H)=4.60
K(Cd+H2L)=3.92

C10H16O8P2 H4L (6907)
1,2-Diphosphinoethane-P,P,P'P'-tetraethanoic acid;
(HOOC.CH2)2P.CH2.CH2.P(CH2.COOH)2

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

Cd++ gl NaClO4 25°C 0.10M C 1992PPb (74941)3093
K1=6.27
B(CdHL)=10.13
B(CdH2L)=14.05
B(Cd2L)=10.38

Additional method: Cd(Hg) electrode

Cd++ gl NaClO4 25°C 0.10M C 1982PPc (74942)3094
K1=6.27
B(CdHL)=10.13
B(CdH2L)=14.05
B(Cd2HL)=10.38

C10H17N04 H2L CAS 2848-06-8 (3916)
N-(Cyclohexyl)iminodiethanoic acid; C6H11.N(CH2.COOH)2

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

Cd++ gl NaCl04 25°C 0.50M U K1=7.09 1967FMb (74970)3095

Cd++ gl KNO3 20°C 0.10M U K1=6.94 1964PIa (74971)3096

C10H17N05 H2L (3917)
N-(Tetrahydropyran-2-ylmethyl)iminodiethanoic acid;

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

Cd++ gl KNO3 20°C 0.10M U K1=7.93 B2=13.99 1963IFa (74997)3097
K(Cd+HL)=1.47

C10H17N2014P3 H3L TTP CAS 365-08-2 (402)
Thymidine-5'-triphosphoric acid;

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

Cd++ gl R4N.X 25°C 0.10M U K(Cd+HL)=5.09 1991LSa (75046)3098

Cd++ gl NaNO3 25°C 0.10M C K(Cd+HL)=5.09 1987STb (75047)3099

C10H17N306S H3L Glutathione CAS 70-18-8 (333)
Glutamyl-cysteinyl-glycine;

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

Cd++ gl NaCl04 25°C 0.10M U TIH K1=6.795 2001SGd (75102)3100
Data for 0.05-0.2 M NaCl04 and 15-45 C. DH(K1)=-27.1 kJ mol⁻¹, DS(K1)=-405
J K⁻¹ mol⁻¹. At I=0, K1=7.100. Also data for MeOH/H2O, EtOH/H2O, DMF/H2O.

Cd++ nmr NaNO3 25°C 0.40M U M K1=6.16 1990KRa (75103)3101
K(Cd(NTA)+L)=5.28

Cd++ gl KNO3 25°C 0.20M C K1=6.18 1990KUa (75104)3102
B(CdHL)=13.43

Cd++ gl NaCl04 25°C 3.00M C K1=10.18 B2=15.35 1976CWa (75105)3103
B(CdHL)=17.02
B(CdHL2)=25.08
B(CdH2L2)=33.03
B(CdH-1L)=0.29

B(CdH-1L2)=3.17

Cd++ g1 KNO3 25°C 0.15M U K1=10.50 1955LMa (75106)3104

 C10H18N2O3 HL CAS 533-48-2 (411)
 D/L-Desthiobiotin, 5-Methyl-2-oxo-4-imidazoline-caproic acid;

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

Cd++ EMF diox/w 25°C 50% U K1=2.64 1978SPa (75179)3105

 C10H18N2O4 H2L CAS 124125-60-6 (914)
 1,5-Diazacyclooctane-N,N'-diethanoic acid;

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

Cd++ g1 NaNO3 25°C 0.10M U K1=9.69 1990HNa (75199)3106

 C10H18N2O4S H2L (6638)
 1-Thia-4,7-diazacyclononane-N,N'-diethanoic acid;

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

Cd++ g1 KNO3 25°C 0.10M C K1=12.99 1993WLa (75213)3107
 K(CdL+OH)=4.4
 K(2CdL+2OH=Cd2(OH)2L2)=7.0

 C10H18N2O5 H2L (5608)
 1-Oxa-4,7-diazacyclononane-N,N'-diethanoic acid;

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

Cd++ g1 KNO3 25°C 0.10M U K1=10.56 1990CCa (75228)3108

 C10H18N2O5 H2L (6634)
 N,N-Diethylacetamidoiminodiethanoic acid; (C2H5)2N.CO.CH2.N(CH2.COOH)2

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

Cd++ g1 NaClO4 25°C 0.50M U K1=8.01 B2=12.71 1992GLa (75246)3109
 B(CdH-1L)=-2.33

 C10H18N2O7 H3L HEDTA CAS 150-39-0 (392)
 N-(Hydroxyethyl)diaminoethane-N,N',N'-triethanoic acid;

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

Cd++ ISE KNO3 25°C 0.10M U K1=14.27 1983YWa (75310)3110

Cd++ g1 NaClO4 25°C 1.00M C K1=13.21 19760Sb (75311)3111
 B(CdHL)=16.61
 B(CdH2L)=16.68

Cd++ gl KNO3 25°C 0.10M U K1=13.02 1969BNa (75312)3112
2nd method: calorimetry

Cd++ vlt NaNO3 25°C 0.10M U K1=13.6 1967KHd (75313)3113

Cd++ cal KNO3 25°C 0.10M U H 1965WHa (75314)3114
DH(K1)=-43.0 kJ mol⁻¹, DS=105 J K⁻¹ mol⁻¹

Cd++ gl KCl 30°C 0.10M U K1=13.0 1955CMa (75315)3115

C10H18N4O6S2 H2L CAS 7729-20-6 (6021)
Cysteinyglycine disulfide; (-S.CH2.CH(NH2)CO.NH.CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.20M C K1=3.14 1990KUa (75575)3116
B(CdHL)=9.87

C10H19N04 H2L (3328)
N-(3,3-Dimethylbutyl)iminodiethanoic acid; (CH3)3C.CH2.CH2.N(CH2.COOH)2

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

Cd++ gl KNO3 20°C 0.10M U K1=7.12 B2=13.14 1955SAa (75635)3117

C10H19N3O4 H2L (8095)
1,4,7-Triazacyclononane-1,4-diethanoic acid;

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

Cd++ gl KCl 25°C 1.0M U K1=13.37 2000LKc (75654)3118

C10H19N3O4 HL Leu-Gly-Gly CAS 1187-50-4 (1230)
Leucyl-glycyl-glycine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH2.CO.NH.CH2.COOH

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

Cd++ gl oth/un 25°C 0.01M U K1=2.13 B2=4.54 1959DLb (75683)3119

Cd++ gl oth/un 25°C 0.01M U K1=1.5 1954PEa (75684)3120

C10H19N3O5 H2L 2,3-DIHA CAS 709640-93-7 (9156)
N-Hydroxy-N'-[4-(hydroxymethylamino)-4-oxobutyl]-N-methyl-butanediamide;

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

Cd++ gl KNO3 25°C 0.20M C K1=5.65 2004FBa (75708)3121
B(CdHL)=12.83

C10H20N2O4 H2L CAS 5578-84-7 (5914)
N,N-Dihydroxydecanediamide; HN(OH).CO.(CH2)8.CO.NH(OH)

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

Cd++ gl NaNO3 25°C 0.10M C K1=6.22 1989EHa (75795)3122

C10H20N2O4S2 H4L EDDASS (6912)
N,N'-Bis(2-mercaptoethyl)diaminoethane-N,N'-diethanoic acid;
(-CH2.N(CH2.CH2.SH)CH2.COOH)2

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

Cd++ gl KCl 25°C 0.10M C K1=23.34 1995SMb (75810)3123

K(CdL+H)=5.47

K(CdHL+H)=2.5

B(Cd2L)=30.74

K(Cd2L+H)=2.5

K(Cd2L=Cd2(OH)L+H)=-9.7; K(CdL=Cd(OH)L+H)=-11.73

C10H20N2O6 H2L (7208)
1,2-Diaminoethane-N,N'-bis(3-hydroxy-2-butanoic acid)); (CH2NHCH(COOH)CH(OH)CH3)2

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

Cd++ gl KNO3 20°C 0.10M U K1=8.54 1970DKa (75831)3124

By spectrophotometry: K1=8.60 in 0.1 M NaClO4

C10H20N2O6 H2L CAS 96817-35-5 (4755)
1,2-Diaminoethane-N,N'-bis(4-hydroxy-2-butanoic acid);

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

Cd++ sp oth/un 20°C 0.10M U K1=8.54 1972DKa (75842)3125

C10H20N2O6 H2L CAS 5616-21-7 (570)
N,N'-Bis(2-hydroxyethyl)diaminoethane-N,N'-diethanoic acid;

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

Cd++ vlt NaClO4 25°C 0.40M U K1=10.9 1981MMa (75855)3126

K(Cd+HL)=5.6

C10H20O5 L 15-Crown-5 CAS 33100-27-5 (576)
1,4,7,10,13-Pentaoxacyclopentadecane; cyclo(-(O.CH2.CH2)5-)

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

Cd++ nmr non-aq 25°C 100% C I K1=2.35 2004TAa (75957)3127

Method: 113Cd nmr. Medium: acetonitrile. Also data for 80% AN/H2O and

20-60% AN/nitromethane. By 1H nmr, K1=2.33.

Cd++ con alc/w 25°C 40% C K1=2.07 2002ISa (75958)3128
Medium: 40% EtOH/H2O.

Cd++ nmr non-aq 27°C 100% C K1=4.92 2000SMg (75959)3129
Medium: acetonitrile. Method: competitive 7Li nmr technique.

C10H20S4 L 14-Ane-S4 CAS 24194-61-4 (175)
1,4,8,11-Tetrathiacyclotetradecane; cyclo(-(S.CH2.CH2)2.CH2.(S.CH2.CH2)2.CH2-)

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

Cd++ vlt R4N.X 25°C 0.2M U K1=10.6 1999BBc (76154)3130
Medium: 0.2 M Bu4NPF6.

C10H21NO3 L (6568)
Trans-1-(bis(2-hydroxyethyl)amino)-2-hydroxycyclohexane;

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

Cd++ gl NaNO3 25°C 0.10M C K1=3.23 1991DCa (76173)3131

C10H21N11 L (7006)
1,7-Di(2-(5-tetraazolyl)ethyl)-1,4,7-triazaheptane;

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

Cd++ gl NaNO3 20°C 0.10M U K1=13.24 1981ESa (76209)3132

C10H22N2OS2 L CAS 40236-04-2 (2343)
1-Oxa-4,13-diaza-7,10-dithiacyclopentadecane;

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

Cd++ gl NaClO4 25°C 0.10M U H K1=6.53 1979ASb (76234)3133
Also DH values

Cd++ gl NaClO4 25°C 0.10M U K1=7.13 1977LAa (76235)3134

Cd++ gl NaClO4 25°C 0.10M U K1=6.53 1975ASc (76236)3135

C10H22N2OS2 L CAS 40236-30-4 (5395)
1-Oxa-4,13-dithia-7,10-diazacyclopentadecane;

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

Cd++ gl NaClO4 25°C 0.10M U H K1=7.13 1979ASb (76250)3136
Also DH values

C10H22N2O3 L Cryptand 2,1 CAS 31249-95-3 (835)
4,7,13-Trioxa-1,10-diazacyclopentadecane (Trioxa(2,1)cryptand);

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

Cd++ ISE non-aq 25°C 100% U H K1=4.75 2004DMb (76296)3137
Medium: dmsO, 0.1 M Et4NC1O4. DH(K1)=-28 kJ mol-1, DS(K1)=-3 J K-1 mol-1

Cd++ gl R4N.X 25°C 0.05M C K1=6.2 1997BCc (76297)3138
Medium: 0.05 M Me4NC1O4

Cd++ gl alc/w 25°C 100% C K1=8.72 1980SAa (76298)3139
B(Cd2L)=11.99
Medium: MeOH, 0.05 M Et4NC1O4

Cd++ gl R4N.X 25°C 0.10M C K1=6.46 1977ASc (76299)3140

C10H22N2S2 CAS 65113-46-4 (5985)
N,N'-Dimethyl-1,7-diaza-4,10-dithiacyclododecane;

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

Cd++ gl NaClO4 25°C 0.10M U K1=6.59 1985SLa (76371)3141
B(CdLOH)=-2.16

C10H22N4 L CAS 82413-08-9 (6153)
1,4,7,10-Tetraaza-bicyclo[8.2.2]tetradecane;

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

Cd++ gl NaNO3 25°C 0.10M U K1=10.07 1988HDa (76385)3142

Cd++ gl NaNO3 25°C 0.10M U K1=10.07 1987HEa (76386)3143

C10H23N3O L (6453)
1-Oxa-4,8,12-triazacyclotetradecane;

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

Cd++ gl KCl 25°C 0.10M C K1=7.61 1996JLb (76505)3144

Cd++ gl KNO3 25°C 0.10M U K1=7.13 1991ACa (76506)3145
B(CdH-1L)=-2.06
K(CdL+OH)=4.63

C10H23N3O2 L CAS 60350-18-7 (5875)
1,4-Dioxa-7,10,13-triazacyclopentadecane;

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

Cd++ gl NaNO3 25°C 0.10M C K1=10.05 1989HBa (76521)3146

C10H23N3O2 L CAS 572925-33-8 (9069)
Bis(2-hydroxyethyl)-1,4,7-triazacyclononane;

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

Cd++ gl NaNO3 25°C 0.10M C K1=9.79 2003CPa (76528)3147

C10H24N2O5 L CAS 68704-79-0 (1787)
8-Oxa-2,14-diaza-5,11-dithiapentadecane;

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

Cd++ gl NaClO4 25°C 0.10M U H K1=4.40 1979ASb (76556)3148
Also DH values

Cd++ gl NaClO4 25°C 0.10M U K1=4.35 1975ASb (76557)3149

C10H24N2O4 L CAS 140-07-8 (2669)
N,N,N',N'-Tetra(2-hydroxyethyl)diaminoethane; ((HO.CH2.CH2)2N.CH2-)

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

Cd++ gl oth/un 25°C 0.50M U K1=7.04 1960HDa (76584)3150

C10H24N2O8P2 H4L CAS 230306-63-5 (7192)
4,10-Bis(phosphonomethyl)-1,7-dioxa-4,10-diazacyclododecane;

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

Cd++ gl R4N.X 25°C 0.10M C K1=14.49 2000PSa (76589)3151
B(CdHL)=20.50
B(CdH2L)=25.02
B(CdH-1L)=3.34
B(Cd2L)=19.55

Medium: 0.10 M [Et4N]NO3. B(Cd2H-1L)=9.76, B(Cd2HL)=24.51,
B(Cd2H-2L)=-1.18.

C10H24N4 L iso-Cyclam CAS 52877-36-8 (142)
1,4,7,11-Tetraazacyclotetradecane; cyclo(-(HNCH2.CH2)3.CH2.NH.CH2.CH2.CH2-)

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

Cd++ gl NaNO3 25°C 0.10M U K1=11.84 1991LHa (76615)3152

C10H24N4 L Cyclam CAS 295-37-4 (8)
1,4,8,11-Tetraazacyclotetradecane; cyclo(-(HN.CH2.CH2.NH.(CH2)3)2-)

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

Cd++ vlt R4N.X 25°C 0.2M U K1=39.7 1999BBc (76655)3153
Medium: 0.2 M Bu4NPF6

Cd++ gl KCl 25°C 0.50M U K1=11.3 1997BLd (76656)3154

Cd++ gl NaNO3 25°C 0.10M U K1=11.23 1985THb (76657)3155

C10H24N4 L (4712)
1,4-Bis(3-aminopropyl)-1,4-diazacyclohexane, 1,4-Bis(3-aminopropyl)-piperazine;

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

Cd++ gl NaNO3 25°C 0.10M U K1=4.54 1990HNa (76685)3156

C10H24N4 L CAS 91135-29-4 (6516)
1,5-Bis(2-aminoethyl)-1,5-diazacyclooctane; NH2.CH2CH2.N(CH2CH2CH2)2N.CH2CH2.NH2

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

Cd++ gl NaNO3 25°C 0.10M U K1=10.94 1990HNa (76690)3157

C10H24N4O L (7051)
1-Oxa-4,7,10,13-tetraazacyclopentadecane;

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

Cd++ gl NaNO3 25°C 0.10M U K1=13.41 1990HWa (76707)3158

C10H25N5 L 15-Ane-N5 CAS 295-64-7 (99)
1,4,7,10,13-Pentaazacyclopentadecane; cyclo(-(HN.CH2.CH2)5-)

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

Cd++ gl NaNO3 25°C 0.10M U K1=19.2 1987HEa (76728)3159

Cd++ gl NaClO4 25°C 0.20M M H K1=19.2 1978KKb (76729)3160
B(CdHL)=22.6

DH1=-54.4 kJ mol⁻¹

C10H26N2O12P4 H8L CAS 28698-30-8 (3342)
N,N,N',N'-Tetra(phosphomethyl)cyclohexane-1,2-diamine;

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

Cd++ gl oth/un 25°C 0.10M U K1=8.06 1959BYa (76754)3161

C10H26N4 L Spermine CAS 71-44-3 (291)
4,9-Diazadodecane-1,12-diamine; (H2N.CH2.CH2.CH2.NH.CH2.CH2.)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U			K1=5.22	1999LBa (76791)	3162

C10H26N4S4		L						CAS 55677-43-5	(1178)	
1,1,2,2-Tetramercaptoethylamine-ethane; (CH(S.CH2.CH2.NH2)2)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	U			K(Cd+H2L)=4.05	1976CJa (76815)	3163

C10H28N2O12P4		H8L						CAS 23605-74-5	(435)	
(Hexamethylenedinitrilo)tetra(methylenephosphonic acid); (CH2.CH2.CH2.N(CH2.PO3H2)2)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=6.88 K(CdL+H)=10.00 K(CdHL+H)=7.13 K(CdH2L+H)=6.07 K(CdH3L+H)=5.28	1980ZRb (76836)	3164

C10H28N6		L						CAS 4067-16-7	(3903)	
1,4,7,10,13,16-Hexaazahexadecane (pentaethylenehexamine):										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	oth/un	25°C	0.50M	U			K1=19	1962JSa (76845)	3165
phosphate buffer										

C10H28N6		L		PENTEN				CAS 4097-90-9	(3315)	
N,N,N',N'-Tetra-(2-aminoethyl)diaminoethane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	1.0M	C			K1=16.64 B(CdHL)=23.69	2001GLb (76865)	3166

Cd++	gl	KCl	20°C	0.10M	U			K1=16.15 K(Cd+HL)=12.44 K(CdL+H)=6.49	1953SMa (76866)	3167

C11H8N6O		HL						(7009)		
1-(5-Tetrazolyl)azo-2-naphthol;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	NaClO4	20°C	0.10M	U			K1=7.50 B2=14.20	1978SSF (76925)	3168

C11H8N6O7S2 H4L CAS 35322-95-7 (909)
3-Hydroxy-4-(1H-tetrazol-5-ylazo)-2,7-naphthalenedisulfonic acid;

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

Cd++ sp NaClO4 25°C 0.10M U K1=7.95 1978BEa (76936)3169

C11H8O3 H2L CAS 86-48-6 (1129)
1-Hydroxy-2-naphthoic acid;

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

Cd++ gl KNO3 30°C 0.10M U T H K1=6.68 B2=12.43 1976SSb (77003)3170
At 35 C: K1=7.28, K2=6.12; 40 C: 7.78, 6.84

C11H8O3 HL CAS 483-35-6 (3347)
2-Hydroxy-3-methyl-1,4-naphthoquinone;

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

Cd++ vlt oth/un 25°C 0.20M U 1966SPa (77074)3171
B3=11.7

phosphate buffer

C11H8O3 H2L CAS 92-70-6 (1130)
2-Hydroxy-3-naphthoic acid (3-Hydroxy-2-naphthoic acid);

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

Cd++ gl diox/w 25°C 50% C K1=7.30 1987CFb (77107)3172
In 50% dioxan/H2O; 0.2 M KNO3.

C11H8O3 HL Plumbagin CAS 81402-06-4 (882)
6-Hydroxy-2-methyl-1,4-naphthoquinone;

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

Cd++ gl alc/w 30°C 50% U K1=5.26 B2=10.14 1981RRc (77145)3173

C11H8O3S HL CAS 32267-05-3 (3353)
2-Furoyl-2-thenoylmethane; C4H3O.CO.CH2.CO.C4H3S

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

Cd++ gl diox/w 30°C 75% U K1=8.23 B2=15.55 1953UFe (77153)3174

C11H8O4 HL CAS 7555-37-5 (4812)
3-Acetyl-4-hydroxycoumarin

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U		K1=2.11 B2=3.76	1971MAa	(77167)3175
Medium: 50% dioxan, 0.01 M NaClO4									

C11H9NO3		H2L					CAS 80690-05-7	(872)	
3-Hydroxy-2-methyl-1,4-naphthoquinone monoxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	0.10M	U		K1=4.39 B2=8.42 K3=4.57	1981KSa	(77360)3176

C11H9NO4		H2L					CAS 4321-82-7	(4829)	
3-Acetyl-4-hydroxycoumarin oxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U		K(Cd+HL)=1.95 K(Cd+2HL)=3.45	1971MAa	(77409)3177
Medium: 50% dioxan, 0.01 M NaClO4									

C11H9N3O		HL					CAS 10335-29-2	(3937)	
2-(2'-Pyridylazo)phenol; C5H4N.N:N.C6H4.OH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	50%	U		K1=7.8 B2=14.40	1967ANA	(77454)3178
Medium: 50% MeOH, 0.1 M NaClO4									

C11H9N3O2		H2L PAR					CAS 1141-59-9	(636)	
4-(2'-Pyridylazo)-1,3-dihydroxybenzene; C5H4N.N:N.C6H3(OH)2									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	none	22°C	0	U		B2eff=13	1995AHa	(77518)3179
B2eff at pH 10.0, I=0.015 M									

Cd++	sp	KNO3	25°C	0.10M	U		K1=8.246 B2=17.340	1982VJa	(77519)3180
------	----	------	------	-------	---	--	--------------------	---------	-------------

Cd++	sp	NaClO4	20°C	0.10M	U		K(Cd+HL)=10.5	1966HSb	(77520)3181
------	----	--------	------	-------	---	--	---------------	---------	-------------

Cd++	sp	oth/un	?	?	U		B2=21.6 K(Cd+HL)=11.5	1961HSb	(77521)3182
------	----	--------	---	---	---	--	-----------------------	---------	-------------

C11H10N2		L					CAS 1132-37-2	(2427)	
(2,2'-Dipyridyl)methane; C5H4N.CH2.C5H4N									

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   20°C 0.10M U      K1=3.04  B2=5.58  1970BAa (77656)3183
                                     K(Cd+HL)=2.1
                                     K(Cd+CdL)=2.1

```

```

*****
C11H10N2O          L          (7591)
4'-(Imidazol-1-yl)acetophenone;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaNO3  25°C 0.50M M      K1=2.18          1998KSa (77665)3184
*****
C11H10N2O2        HL          CAS 75793-37-6 (1669)
N-(8-Quinolyl)aminoethanoic acid;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  NaClO4 25°C 0.10M U      K1=2.7   B2=5.30  1969TKa (77677)3185
*****
C11H10N2S          L          CAS 62574-36-1 (2602)
N-1-Naphthylthiocarbamide;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      ISE mixed 25°C 82% U      K1=3.62  B2=4.50  1979TBb (77683)3186
Medium: 82% formamide
*****
C11H10N3OC1S      HL          (1294)
2-(4',5'-Dimethyl-2'-thiazolylazo)-4-chlorophenol;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 25°C 60% U      K1=5.93  B2=11.62 1981KTa (77688)3187
*****
C11H10N4          L   PAPHY          CAS 2215-33-0 (1305)
Pyridine-2-aldehyde-2'-pyridyl-hydrazone; C5H4N.CH:N.NH.C5H4N
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      EMF KNO3   20°C 0.10M U      K1=5.43  B2=10.45 1971ANa (77703)3188
-----
Cd++      gl  oth/un 25°C 0.0 U      B2=20          1964GHd (77704)3189
                                     K(Cd+HL)=4.8
                                     K(Cd+2HL)=10.1
                                     K(CdHL2+H)=8.93
                                     K(CdL2+H)=10.22

```

```

*****
C11H11NO          HL          CAS 39892-35-8 (3940)

```

2-Ethyl-8-hydroxyquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.0	U			K1=9.18 B2=17.39	1966KUC	(77764)3190

C11H11NO6		H3L						CAS 1147-65-5		(425)
N-(2'-Carboxyphenyl)iminodiethanoic acid; HOOC.C6H4.N(CH2.COOH)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=7.44 K(Cd+HL)=2.37	1967UKa	(77813)3191

By polarography: K1=7.41

Cd++	sp	NaNO3	20°C	0.10M	U			K(?)=5.12	1961DSa	(77814)3192

C11H11NS		HL						CAS 54128-50-6		(1033)

2,7-Dimethyl-8-mercaptoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	non-aq	25°C	100%	U			K1=9.2 B2=16.1	1984UBa	(77857)3193
Medium: DMF, 0.1 M LiClO4. Similar data to reference UB83a										

Cd++	EMF	non-aq	25°C	100%	U			K1=9.2 B2=16.10	1983UBa	(77858)3194
Medium: DMF, 0.1 M LiClO4										

C11H11NS2		HL						CAS 54487-80-8		(5694)

2-Methyl-(5-thiomethyl)-8-mercaptoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	non-aq	25°C	100%	U			K1=6.8 B2=12.20	1986UBa	(77865)3195
Medium: dimethylformamide, LiClO4										

C11H11N2O2Cl		HL						(9229)		
--------------	--	----	--	--	--	--	--	--------	--	--

3-[4-Chlorophenylazo]penta-2,4-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	0.1M	U			K1=7.10	2004GMC	(77885)3196
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture										

C11H11N2O2I		HL						(9227)		
-------------	--	----	--	--	--	--	--	--------	--	--

3-[4-Iodophenylazo]penta-2,4-dione;

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

Cd++ gl alc/w 25°C 0.1M U K1=6.75 2004GMc (77896)3197
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture

C11H11N3O2S H2L (6578)
4-(4'-Methyl-2'-thiazolylazo)-2-methyl-resorcinol; (OH)2(CH3)C6H2.N:N.C3HNS(CH3)

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

Cd++ sp alc/w 25°C 50% U 1990SSb (77918)3198
B(CdHL2)=20.38
B(CdH2L2)=27.00

Medium: 50% v/v EtOH/H2O, 0.25 M NaClO4

C11H11N3O4 HL (9230)
3-[4-Nitrophenylazo]penta-2,4-dione;

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

Cd++ gl alc/w 25°C 0.1M U K1=6.37 2004GMc (77956)3199
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture

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

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

Cd++ gl KNO3 25°C 0.50M U K1=0.69 B2=1.18 1980LWa (78001)3200
B3=1.44

C11H12N2O2 HL CAS 103314-23-4 (6182)
2-(N-2-Pyrrolidimino)benzoic acid; C4H7N:N.C6H4.COOH

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

Cd++ gl NaClO4 25°C 0.10M U TIH B2=9.28 1988GRb (78013)3201
35 C:B2=9.35, 45 C:9.45. DH(B2)=20.9 kJ mol⁻¹, DS=231.2 J K⁻¹ mol⁻¹

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

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

Cd++ vlt KNO3 25°C 1.0M C M K1=4.45 B2= 7.52 1997KKb (78161)3202
B3=9.92
B(CdAL)=4.66
B(CdA2L)=7.92
B(CdAL2)=10.53

Method: polarography. HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl NaClO4 25°C 0.20M M K1=4.55 1996VBa (78162)3203

Cd++ gl NaClO4 25°C 0.20M M K1=4.551 B2= 8.69 1994VBb (78163)3204

Cd++ gl NaClO4 25°C 0.20M M K1=4.551 B2= 8.69 1994VBc (78164)3205

Cd++ gl KNO3 25°C 0.10M C T HM K1=3.81 B2= 6.97 1993GWa (78165)3206
K(CdL+bpy)=4.12
B(CdL(bpy))=8.33
K(CdL+phen)=4.33
B(CdL(phen))=10.07

Data for 15-45 C. DH(K1)=-29.33 kJ mol⁻¹, DS(K1)=-27.14 J K⁻¹ mol⁻¹,
DH(B2)=-53.37, DS(B2)=-49.38, DH(CdL(bpy))=-60.70, DH(CdL(phen))=-60.11.

Cd++ gl NaClO4 25°C 0.20M U M K1=4.63 B2=8.66 1992VBa (78166)3207
B(CdL(Trp))=9.17
B(CdL(Phe))=9.32
B(CdL(Ala))=8.79

Cd++ gl KNO3 35°C 0.20M U M K1=3.66 B2=7.08 1989RVa (78167)3208
K(CdA+L)=3.67

A=bis(imidazol-2-yl)methane

Cd++ gl KNO3 25°C 0.20M U M K1=4.33 1988BSc (78168)3209
K(Cd(bpy)+L)=4.72

Cd++ vlt KNO3 30°C 1.0M C M K1=4.40 B2= 7.40 1986KCb (78169)3210
B3=10.50
B(CuAL)=5.18
B(CuA2L)=5.59
B(CuAL2)=8.25

Method: polarography. Medium pH 8.5. H2A is ascorbic acid.
By potentiometry, K(H+L)=9.65

Cd++ ISE NaClO4 25°C 3.00M C K1=4.482 B2=8.582 1974WWa (78170)3211
B3=12.028

Cd++ gl NaNO3 20°C 0.37M U K1=4.48 B2=8.18 1971WSa (78171)3212

Cd++ gl oth/un 20°C .005M U B2=7.0 1953PEa (78172)3213
Medium: 0.005 CdSO4

Cd++ gl oth/un 20°C 0.01M U K2=8.1 1950ALa (78173)3214

C11H12N2O2 HL (9226)
3-[Diphenylazo]penta-2,4-dione;

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

Cd++ gl alc/w 25°C 0.1M U K1=7.74 2004GMc (78247)3215
Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture

C11H12N2O3 H2L CAS 114-03-4 (4839)
5-Hydroxytryptophan;

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

Cd++ vlt KNO3 25°C 1.0M C M 1997KKb (78290)3216
K(Cd+HL)=3.78
K(Cd+2HL)=7.40
K(Cd+3HL)=9.41
K(Cd+HL+A)=4.60

Method: polarography. K(Cd+HL+2A)=7.93, K(Cd+2HL+A)=10.30.
HA is pyridoxine (vitamin B6). Medium pH 8.50.

Cd++ gl NaNO3 20°C 0.37M U 1971WSd (78291)3217
K(Cd+HL)=3.3
K(Cd+2HL)=7.44

C11H12N2O5S HL CAS 56475-09-3 (8410)
3-(4'-Sulfophenylhydrazo)-pentane-2,4-dione;

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

Cd++ gl KCl 25°C 0.10M U T K1=7.04 2005ACa (78313)3218
For 35 C K1=6.90; for 45 C K1=6.75

C11H12N4O2 HL (4837)
2-(5-Methyl-4-imidazolylazo)-4-methoxyphenol;

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

Cd++ gl diox/w 25°C 50% U K1=8.4 B2=14.90 1968YTa (78353)3219
Medium: 50% dioxan, 0.1 M KNO3

C11H12O4 H2L CAS 3709-21-5 (8116)
(2-Phenylethyl)malonic acid;

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

Cd++ gl diox/w 25°C 40% C M K1=3.36 B2= 6.73 2001ZGa (78408)3220
B(Cd(phe)L)=8.15

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.
phe: phenylalanine.

C11H12O4S2 H2L CAS 4265-49-0 (4840)
4-Methyl-1,2-phenylenebisthioethanoic acid; CH3.C6H3(S.CH2.COOH)2

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

Cd++ gl KNO3 25°C 0.10M U K1=2.40 1971FPa (78414)3221

C11H13NO4 H2L CAS 3987-53-9 (966)
N-Benzyliminodiethanoic acid; C6H5.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=6.16 B2=11.22	1975IPa (78579)	3222

C11H13NO6 H4L CAS 1911-59-2 (4852)
2,3-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	oth/un	?	?	U				1975DTa (78657)	3223

K(Cd+HL)=10.8
K(CdH2L)=7.1

C11H13NO6 H4L CAS 59036-09-8 (2111)
2,5-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.0	U				1970TTb (78672)	3224

K(Cd+HL)=11.0
K(Cd+H2L)=7.0

C11H13NO6 H4L CAS 31477-66-7 (4853)
2,6-Dihydroxybenzyliminodiethanoic acid; (HO)2.C6H3.CH2.N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	oth/un	?	?	U				1975DTa (78688)	3225

K(Cd+HL)=10.9
K(Cd+H2L)=7.4

C11H13NO6S H3L CAS 20531-36-6 (4872)
N-Benzenesulfonyl-1-glutamic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	none	30°C	0.0	U				1970GDb (78697)	3226

K(Cd+H3L=CdH2L+H)=1.84
K(CdHL+H)=4.30

C11H13N3O L Ampyrone CAS 83-07-8 (2027)
4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one, 4-Aminoantipyrine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=1.81 B2=3.43	1980LWa (78705)	3227

B3=4.84

C11H13O4AsS H2L CAS 36198-36-4 (4870)
Bis(carboxymethyl)-2-(methylthiophenyl)arsine; (HOOC.CH2)2.As.C6H4.S.CH3

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

Cd++ gl oth/un 25°C 0.10M U K1=3.22 1971FPa (78742)3228
K(Cd+HL)=2.51

C11H13O4AsS H2L CAS 36198-38-6 (4871)
Bis(carboxymethyl)-4-(methylthiophenyl)arsine; (HOOC.CH2)2.As.C6H4.S.CH3

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

Cd++ gl oth/un 25°C 0.10M U K1=1.5 1971FPa (78749)3229

C11H14N2O L CAS 51036-80-7 (444)
1-(1-Ethoxyethyl)benzimidazole;

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

Cd++ kin NaCl 80°C 0.90M C 1980LKa (78770)3230
K(Cd+HL=CdL+H)=3.1

C11H14N2O L (4854)
Methylglyoxal 4-dimethylaminoanil

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

Cd++ sp oth/un ? ? U K1=6.95 1969SMa (78775)3231

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

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

Cd++ gl oth/un 25°C 0.01M U K1=3.3 1954PEa (78808)3232

C11H14N2O4 H2L Gly-Tyr CAS 658-79-5 (533)
Glycyl-tyrosine; H2N.CH2.CO.NH.CH(CH2.C6H4.OH).COOH

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

Cd++ gl oth/un 25°C 0.01M U 1954PEa (78855)3233

K(Cd+HL)=2.2

C11H14N2O4 H2L (1880)
N-(6-Methyl-2-pyridylmethyl)iminodiethanoic acid; CH3C5H3NCH2N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	20°C	0.10M	C	H		K1=8.75 B2=13.85	1981ANb (78874)	3234
DH(K1)=-16.7 kJ mol ⁻¹ , DS=138.9 J K ⁻¹ mol ⁻¹ ; DH(K2)=-34.3, DS=-19.2 additional method: exchange equilibria and ion selective electrode *****										
C11H14N4O4		L		Tubercidin				CAS 69-33-0	(6412)	
7-Deazaadenosine, Tubercidin;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.50M	C			K1=0.71	2002KSb (78952)	3235
Cd++	gl	NaNO3	25°C	0.50M	M			K1=0.70	1991JCa (78953)	3236
Also by spectrophotometry in 0.5 M NaClO4: K1=0.88 *****										
C11H15NO3		L						(6281)		
Benzaldehyde:tris-buffer Schiff's base; C6H5.CH:N.C(CH2.OH)3										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	26°C	60%	U			K1=3.65 B2=6.38	1978TPb (79030)	3237

C11H15NO4		HL						CAS 18212-81-2	(6280)	
Salicylaldehyde:tris-buffer Schiff's base;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	mixed	25°C	30%	C			K1=3.55 B2= 5.40	1992AEa (79041)	3238
B(CdLC1)=7.64 B(CdLC12)=9.56 Medium: 30%(v/v) DMF/H2O, 0.10 M NaClO4. Method: polarography.										

Cd++	gl	alc/w	26°C	60%	U			K1=4.57	1978TPb (79042)	3239

C11H15N4O7P		H2L						CAS 16719-46-3	(6026)	
Tubercidin-5'-monophosphoric acid, 7-Deazaadenosine-5-monophosphoric acid;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=2.42	1988SMb (79066)	3240
K(Cd+HL)=1.39 *****										
C11H16N2O2		L		Pilocarpine				CAS 54-71-7	(1431)	
(3S;4R)-3-Ethylidihydro-4-((1-methyl-1H-imidazol-5-yl)methyl)-2-furanone;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U			K1=2.51 B2=4.78	1983LWa (79089)	3241
B3=6.69										

B4=8.39

B5=9.85

C11H16N2S2 L CAS 771500-52-8 (9193)

2,8-Dithia-5-aza-2,6-pyridinophane;

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

Cd++ gl R4N.X 25°C 0.10M C K1=9.12 2004BBe (79117)3242

Medium: 0.1 M Me4NO3

C11H17NO8S H3L CAS 91649-51-3 (8438)

N,N,S-Tris(carboxymethyl)methionine;

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

Cd++ gl KCl 25°C 0.10M C K1=6.30 1984RFd (79172)3243

K(Cd+HL)=6.66

*K(CdHL)=-11.38

C11H18N2O8 H4L PDTA CAS 4408-81-5 (1655)

1,2-Diaminopropane-N,N,N',N'-tetraethanoic acid;

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

Cd++ gl KNO3 20°C 0.10M U K1=13.95 1981NSc (79246)3244

Cd++ gl KNO3 20°C 0.10M U K1=17.79 1978NLb (79247)3245

Cd++ vlt KNO3 25°C 1.00M U 1977HDa (79248)3246

K1eff=13.84

Keff at pH 7

Cd++ vlt KNO3 25°C 0.20M U M K1=17.43 19650Ga (79249)3247

Exchange complexes with Zn

Cd++ ISE KNO3 20°C 0.10M U K1=18.83 1964ICb (79250)3248

C11H18N2O8 H4L CAS 4408-81-5 (923)

1,3-Diaminopropane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.)2.CH2

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

Cd++ oth KNO3 20°C 0.10M U K1=13.90 1971AWa (79408)3249

Cd++ vlt KNO3 25°C 0.20M U K1=12.69 19650Ga (79409)3250

Cd++ gl KNO3 20°C 0.10M U H 1964ANa (79410)3251

K(Cd+HL)=6.5

By calorimetry: DH(K1)=-22.7 kJ mol⁻¹, DS=188 J K⁻¹ mol⁻¹

Cd++ gl KNO3 20°C 0.10M U K1=13.90 1964LAa (79411)3252
K(CdL+H)=3.06

Cd++ ISE NaNO3 20°C 0.10M C K1=13.45 1957SSa (79412)3253
K(Cd+HL)=6.18

Method: Cd/Hg electrode

Cd++ EMF NaNO3 20°C 0.10M U K1=13.45 1955SAc (79413)3254

C11H18N2O9 H4L HDPTA CAS 3148-72-9 (431)
1,3-Diamino-2-hydroxypropane-N,N,N',N'-tetraethanoic acid;

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

Cd++ sp KNO3 20°C 0.10M U K1=12.5 1967SMf (79523)3255

Cd++ EMF KCl 20°C 0.10M U K1=12.60 1966PIa (79524)3256
Method: H electrode

Cd++ gl KNO3 25°C 0.10M U K1=12.10 1966TKa (79525)3257
K(CdL+H)=4.12

Cd++ oth KNO3 20°C 0.10M U K1=12.5 1965JMb (79526)3258
Method: electrophoresis

Cd++ vlt KCl 20°C 0.10M U K1=11.73 1964DSc (79527)3259

C11H18N4 L CAS 78668-34-5 (6708)
3,6,9,15-Tetraazabicyclo[9.3.1]pentadeca-1(15),11,13-triene;

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

Cd++ gl KNO3 25°C 0.10M C K1=12.670 1993CDa (79617)3260
K(Cd(OH)L+H)=10.44

C11H19NO9 HL CAS 131-48-6 (8730)
5-Amino-3,5-dideoxy-D-glycero-D-galactononulosic acid;

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

Cd++ gl NaNO3 25°C 0.10M C M K1=3.60 B2= 6.67 2002SMc (79681)3261
B(CdH-1L2)=-2.31
B(Cd(bpy)L)=8.0
B(Cd(bpy)L2)=11.99
B(CdH-1(bpy)L)=0.10

K(Cd(bpy)+L)=3.75, K(Cd(bpy)+2L)=7.74, K(Cd(bpy)+L=CdH-1(bpy)L+H)=-4.15.

C11H19N3O HL CAS 115395-65-8 (9235)
2-[Bis-(aminoethyl)-aminomethyl]-phenol;

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

Cd++ gl NaNO3 25°C 0.15M C K1=11.16 2003AFb (79687)3262
B(CdHL)=16.94
B(CdH-1L)=0.48

C11H19N3O6S H2L S-MeGlutathione (6478)
S-Methylglutathione; HOOC.CH(NH2).CH2.CH2.CO.NH.CH(CH2.SCH3).CO.NH.CH2.COOH

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

Cd++ nmr NaNO3 25°C 0.40M U M 1990KRd (79691)3263
K(Cd(NTA)+L)=2.55

C11H20N2O3 HL Pro-Leu CAS 52899-07-7 (258)
Prolyl-leucine; C4H8N.CO.NH.CH(CH2.CH(CH3)2).COOH

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

Cd++ gl KCl 20°C 0.20M U K1=3.02 B2=5.90 1982RRd (79705)3264

C11H20N2O4S H2L (6639)
1-Thia-4,8-diazacyclodecane-N,N'-diethanoic acid;

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

Cd++ gl KNO3 25°C 0.10M C K1=12.95 1993WLa (79714)3265

C11H20N4O6 H2L ICRF 198 CAS 108430-47-3 (8369)
N,N'-(1-Methyl-1,2-ethanediy)bis[N-(2-amino-2-oxoethyl)glycine];

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

Cd++ gl NaCl 37°C 0.15M C K1=10.72 B2=15.08 1984Mwb (79727)3266
B(CdH2L2)=25.05

Method: competition with L-cysteine.

C11H21N3O5 H2L CAS 499238-77-6 (8837)
N-Hydroxy-N'-[4-(hydroxymethylamino)-4-oxobutyl]-N-methylpentanediamide;

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

Cd++ gl KNO3 25°C 0.20M C K1=5.13 2004FBa (79793)3267
B(CdHL)=12.84

C11H21N3O5 H2L 2,4-DIHA CAS 709640-92-6 (9157)
N-Hydroxy-N'-[5-(hydroxymethylamino)-5-oxopentyl]-N-methyl-butanediamide;

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

C11H26N4O L CAS 252191-58-5 (7607)
1-(3-Hydroxypropyl)-1,4,7,10-tetraazacyclododecane;

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

Cd++ gl R4N.X 25°C 0.10M C K1=13.0 1999DWa (80008)3275
K(CdL=CdH-1L+H)=-9.8

Medium: 0.1 M NEt4ClO4

C11H26N4O L CAS 73396-34-6 (7856)
1-Oxa-4,7,11,14-tetraazacyclohexadecane;

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

Cd++ gl NaNO3 25°C 0.10M U K1=13.44 1990HWa (80015)3276

C11H27N5 L CAS 29783-72-0 (98)
1,4,7,10,13-Pentaazacyclohexadecane; cyclo(-(NH.CH2.CH2)5.CH2-)

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

Cd++ gl NaClO4 25°C 0.20M M H K1=18.1 1978KKb (80028)3277
B(CdHL)=22.0

DH1=-54.4 kJ mol⁻¹

C11H30N6 L CAS 65845-29-6 (4822)
2,2',2'',2'''-(Trimethylenedinitrilo)tetrakis(ethylamine);

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

Cd++ EMF KNO3 20°C 0.10M U K1=12.84 1971PWa (80050)3278
K(CdL+Cd)=2.83
K(Cd+HL)=10.28
K(Cd+H2L)=7.3
K(CdL+H)=7.82

K(CdH2L=CdHL+H)=-6.7

C11H30N6 L (6595)
5-(4'-Amino-2'-azabutane)-5-methyl-3,7-diazanonane-1,9-diamine;
CH3.C(CH2.NH.CH2.CH2.NH2)3

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

Cd++ gl KCl 25°C 0.50M M K1=13.4 1991HLA (80057)3279
K(CdL+H)=8.0
K(CdHL+H)=6.3

C12H602Cl4S H2L CAS 97-18-7 (4944)
Bithionol; Cl2.C6H2(OH).S.C6H2(OH).Cl2

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

 Cd++ gl alc/w 25°C 75% U K1=6.76 B2=11.97 1970FGa (80096)3280
 Medium: 75% EtOH, 1.0 M NaClO4

 C12H7N2Cl L CAS 4199-89-7 (2751)
 5-Chloro-1,10-phenanthroline;

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

 Cd++ gl KNO3 35°C 0.10M C M K1=4.84 B2= 8.29 1998LYa (80141)3281
 B(CdLA)=12.58
 B(CdHLA)=19.68

A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.

 C12H7N3O2 L CAS 4199-88-6 (449)
 5-Nitro-1,10-phenanthroline;

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

 Cd++ gl KNO3 35°C 0.10M C M K1=4.66 B2= 7.28 1998LYa (80167)3282
 B(CdLA)=12.24
 B(CdHLA)=19.18

A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.

 C12H8N2 L Phenanthroline CAS 66-71-7 (144)
 1,10-Phenanthroline;

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

 Cd++ cal non-aq 25°C 100% C H K1=5.12 B2= 9.87 2000KYa (80378)3283
 B3=13.56

Medium: DMF, 0.4 M Et4NClO4.
 DH(K1)=-22.2 kJ mol⁻¹, DH(B2)=-51.1, DH(B3)=-74.4.

Cd++ gl KNO3 35°C 0.10M C M K1=4.96 B2= 8.77 1998LYa (80379)3284
 B(CdLA)=12.77
 B(CdHLA)=19.96

A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.

Cd++ gl KNO3 25°C 0.10M C T H K1=5.74 B2=10.55 1993Gwa (80380)3285
 Data for 15-45 C. DH(K1)=-36.38 kJ mol⁻¹, DS(K1)=-12.11 J K⁻¹ mol⁻¹,
 DH(B2)=-49.78, DS(B2)=34.97.

Cd++ gl NaCl 30°C 0.16M U I K1=4.912 B2=9.007 1990PSa (80381)3286
 B3=11.213

Data in several urea/water mixtures: B1= 3.695, B2= 8.572, B3= 11.599
 in 5.80% w/w urea, etc.

Cd++ ISE KNO3 25°C 0.10M U K1=5.65 B2=10.49 1983Ywa (80382)3287

Cd++ sp NaClO4 25°C 0.10M U M 1981YJa (80383)3288
B(Cd2L2(bpy))=22.415

Cd++ vlt KNO3 25°C 0.10M U I K1=5.78 B2=10.82 1978QCb (80384)3289
K3=6.73
In water saturated propylene carbonate K1=6.0, K2=5.7, K3=5.0

Cd++ EMF KNO3 30°C 0.10M U M 1977MSa (80385)3290
K(CdL+Gly)=4.02
K(CdL+Ala)=3.84
K(CdL+nor-Leu)=3.59
K(CdL+Gly+OH)=8.04

Cd++ gl KNO3 30°C 0.10M M M 1977MSd (80386)3291
K(CdL+His)=5.02

Cd++ ISE alc/w 25°C 50% U K1=5.49 B2=10.63 1972BBa (80387)3292
B3=14.89
Medium: 50% EtOH, 0.15 M K2SO4. In aqueous soln: K1=5.62, B2=10.08, B3=14.48

Cd++ ISE mixed 25°C 25% U 1970NBb (80388)3293
B3=13.69
Medium: 25-75% PrOH, 0.2 M LiNO3. B3(50%)=12.66, B3(75%)=11.77
In 25-75% acetone, 0.2 M LiNO3: B3(25%)=13.85, B3(50%)=13.53, B3(75%)=13.26

Cd++ ISE alc/w 25°C 25% U 1970NBb (80389)3294
B3=14.22
Medium: 25-75% MeOH, 0.2 M LiNO3. B3(50%)=13.47, B3(75%)=12.78
In 25-75% EtOH, 0.2 M LiNO3: B3(25%)=14.22, B3(50%)=13.39, B3(75%)=12.59

Cd++ cal NaNO3 20°C 0.10M U H 1963ANb (80390)3295
DH(K1)=-26.3 kJ mol⁻¹, DS=20.1 J K⁻¹ mol⁻¹; DH(B2)=-54.8, DS=20.1;
DH(B3)=-67.3, DS=55.6

Cd++ gl NaNO3 20°C 0.10M U K1=5.78 B2=10.82 1963ANg (80391)3296
K3=4.10

Cd++ oth oth/un 25°C 0.10M U K1=5.93 B2=10.52 1963DBa (80392)3297
K3=3.78

Cd++ dis KCl 25°C 0.10M U K1=5.17 B2=10.00 1962IMa (80393)3298
K3=4.26

Cd++ EMF NaNO3 20°C 0.10M U K1=6.01 1959ANc (80394)3299
Method: Cd/Hg electrode

Cd++ gl KNO3 25°C 0.10M U K2=5.2 1956YSb (80395)3300
K3=4.2

Cd++ vlt KNO3 25°C 0.10M U I K1=6.4 B2=11.6 1950DLA (80396)3301
K3=4.2

By polarography, 28.5% EtOH B3=13.2

C12H8N2 L (8126)
1,5-Phenanthroline;

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

Cd++ gl KNO3 25°C 0.50M U K1=9.1 1987ZSa (80537)3302

C12H8N2 L (6092)
9,10-Phenanthroline;

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

Cd++ vlt NaNO3 25°C 0.50M U T H K1=2.33 B2=4.97 1988GRa (80544)3303

DH(K1)=-17.29 kJ mol⁻¹, DS(K1)=-11.1 J K⁻¹ mol⁻¹; DH(B2)=-27.84; DS(B2)=-3.8

C12H9NO3 HL CAS 63098-85-1 (6279)
2-(N-2'-Furfuralideneimino)benzoic acid; C4H3O.CH:N.C6H4.COOH

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

Cd++ gl NaClO4 25°C 0.10M U TI K1=3.07 1978SKg (80580)3304

C12H10N2O HL CAS 10354-53-7 (3970)
2-Benzoylpyridine oxime; C5H4N.C(:N.OH).C6H5

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

Cd++ gl mixed 40°C 40% U TI M K1=6.54 B2=12.87 1965SSa (80658)3305

Medium: 40% acetone, 0.05 M NaClO4. K1=7.14(20 C),6.84(30C); K2=6.60(20 C,);

Also I-0 to 0.1. At I=0:DH(K1)=-51.8 kJ mol⁻¹,DS=-38; DH(K2)=-17.6, DS=67

C12H10N2S L CAS 13225-84-8 (1993)
2-Thiopicolinanilide; C5H4N.(C:S).NH.C6H5

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

Cd++ gl alc/w 25°C 50% U K1=8.05 B2=15.8 1981MMd (80748)3306

B3=23.4

C12H10N6O4S H2L CAS 77327-19-6 (8343)
2-[4-Amino-3-(1,2,4-triazolylazo)]naphthol-4-sulphonic acid;

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

Cd++ gl NaClO4 40°C 0.10M U T K1=5.87 B2=11.43 1981GMi (80778)3307

Also data for 45-50 C.

 C12H11N08 H4L (4913)
 1,4-Dicarboxy-2-(biscarboxymethyl)aminobenzene;

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

 Cd++ gl KNO3 25°C 0.10M U K1=7.54 1973KUb (80840)3308
 K(Cd+HL)=3.86

By polarography : K1=7.55

 C12H11N09 H5L (3975)
 N-(2',5'-Dicarboxy-4'-hydroxyphenyl)iminodiethanoic acid;

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

 Cd++ gl KNO3 25°C 0.10M U 1967UKa (80849)3309
 K(Cd+HL)=7.97
 K(Cd+H2L)=2.61

By polarography: K(Cd+HL)=7.92

 C12H11N30 HL CAS 40525-90-4 (4906)
 2-Methyl-4-(2'-pyridylazo)phenol; C5H4N.N:N.C6H3(OH).CH3

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

 Cd++ sp oth/un ? ? U 1973GZa (80869)3310
 K(Cd+2HL)=7.38

 C12H11N30 HL CAS 40525-91-3 (4907)
 2-Methyl-6-(2'-pyridylazo)phenol; C5H4N.N:N.C6H3(OH).CH3

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

 Cd++ dis non-aq ? 100% U B2=8.44 1973GZa (80870)3311
 Medium: CC14

 C12H11N30 HL CAS 19406-16-7 (3974)
 4-Methyl-2-(2'-pyridylazo)phenol; C5H4N.N:N.C6H3(OH).CH3

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

 Cd++ dis non-aq ? 100% U B2=8.97 1973GZa (80875)3312
 Medium: CC14

 C12H11N302 HL CAS 50536-09-5 (6323)
 2-Hydroxy-1-naphthaldehyde-semicarbazone; HO.C10H6.CH:N.NH.CO.NH2

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

 Cd++ gl diox/w 30°C 75% U K1=6.35 1975MKa (80910)3313

 C12H12NO3Cl HL (1055)
 2-Chloro-4-dimethylamino-benzylidenepyruvic acid; (CH3)2N.C6H3Cl.CH:CH.CO.COOH

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

 Cd++ sp NaClO4 25°C 0.50M C K1=0.715 1984MTa (80959)3314

 C12H12N2 L CAS 4916-40-9 (4895)
 1,2-Bis(2-pyridyl)-ethane; C5H4N.CH2.CH2.C5H4N

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

 Cd++ gl KNO3 20°C 0.10M U K1=1.3 1970BAa (80990)3315

 C12H12N2 L CAS 1134-35-6 (3375)
 4,4'-Dimethyl-2,2'-bipyridyl; CH3.C5H3N.C5H3N.CH3

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

 Cd++ gl KNO3 25°C 0.10M U K1=4.9 B2=8.7 1956YSb (81006)3316

 C12H12N2O HL CAS 70301-52-9 (1940)
 2-(Hydroxyphenyliminomethyl)pyridine; C5H4N.CH2.NH.C6H4.OH

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

 Cd++ EMF KNO3 20°C 0.10M U K1=6.36 1978CSa (81024)3317

 C12H12N2O4Cl2 L CAS 53-85-0 (8151)
 5,6-Dichloro-1-(beta-D-ribofuranosyl)benzimidazole;

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

 Cd++ gl NaNO3 25°C 0.50M M K1=1.35 1998KSd (81099)3318

 C12H12N8B HL CAS 40250-95-1 (7937)
 Tetrakis(pyrazolyl)borate;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ dis non-aq 25°C 100% C 2001KSb (81142)3319

 Method: solvent extraction into chloroform.
 K: Cd+2HL(org)=CdL2(org)+2H.

 C12H12O3 H2L CAS 39113-56-9 (794)
 1-Phenylhexane-1,3,5-trione; C6H5.CO.CH2.CO.CH2.CO.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=7.99 B2=14.45 1960KFc (81153)3320

C12H13NO HL CAS 36749-37-8 (3978)
8-Hydroxy-2-propylquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl oth/un 25°C 0.0 U K1=8.84 B2=17.54 1966Kuc (81175)3321

C12H13NO3 HL (1054)
4-Dimethylamino-benzylidenepyruvic acid; (CH3)2N.C6H4.CH:CH.CO.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaClO4 25°C 0.50M C K1=0.783 1984MTa (81189)3322

C12H13NO3 H2L (5384)
Acetylacetone-anthranilic acid Schiff base

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=4.36 1971MGa (81216)3323
Medium: 50% v/v dioxan/H2O

C12H13NO5 H2L CAS 90274-75-2 (3979)
N-(2'-Acetylphenyl)iminodiethanoic acid; CH3.CO.C6H4.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=7.37 B2=12.34 1965AUa (81231)3324

C12H13NS HL CAS 54421-21-5 (1034)
2-(2-Propyl)-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl non-aq 25°C 100% U K1=5.1 B2=9.7 1984UBa (81254)3325
Medium: DMF, 0.1 M LiClO4

C12H13N3 L CAS 1539-42-0 (932)
bis-((2-Pyridyl)methyl)-amine (Di-2-picolyamine); C5H4N.CH2NHCH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M C H K1=6.40 B2=11.76 1977AHc (81279)3326
Calorimetry: DH1=-24.7 kJ mol-1, DS1=39.7; DH(B2)=-57.7, DS(B2)=31.8

Cd++ gl KNO3 25°C 0.10M U K1=6.44 B2=11.74 1968RBa (81280)3327

C12H13N3OS HL CAS 76877-48-0 (1289)
2-(4',5'-Dimethyl-2-thiazolylazo)-4-methylphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 60% U K1=6.85 B2=13.76 1981KTa (81299)3328

C12H14N4O2S L Sulfadimidine CAS 57-68-1 (6167)
2-(4-Aminobenzolsulfamido)-4,6-dimethylpyrimidine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 50% C K1=3.85 1999GAa (81364)3329
Medium: 50% EtOH/H2O, 0.10 M NaNO3.

C12H14O4 H2L CAS 5454-06-8 (8117)
(3-Phenylpropyl)malonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 40% C M K1=3.40 B2= 6.77 2001ZGa (81404)3330
B(Cd(phe)L)=8.28

Medium: 40% v/v dioxane/water, 0.10 M NaNO3.
phe: phenylalanine.

C12H14O14 H6L CAS 111451-17-3 (5895)
3,6-Dioxaoctane-1,2,4,5,7,8-hexacarboxylic acid; (CH2(COOH).CH(COOH).O.CH(COOH)-)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C K1=6.80 1989MMd (81413)3331
K(CdL+H)=4.93
K(CdHL+H)=4.09
K(CdH2L+H)=3.18
K(CdL+Cd)=2.69

C12H15NO6S H2L CAS 34605-45-3 (4959)
4-Toluenesulfonyl glutamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C M 1999BMA (81521)3332
K(Cd+H-1L+H)=14.57
K(Cd+H-1L+2H)=19.11

Additional method: polarography. Also data for ternary complexes with
bipyridine.

Cd++ vlt KCl 25°C 0.10M U 1968RFa (81522)3333

B3=5.46

C12H15N5O HL (4920)
2-(5-Methyl-4-imidazolylazo)-4-dimethylaminophenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=12.3 B2=21.60 1968YTa (81534)3334
Medium: 50% dioxan, 0.1 M KNO3

C12H16N2O3 HL Ala-Phe CAS 3061-90-3 (6981)
Alanyl-phenylalanine; H2N.CH(CH3)CO.NH.CH(CH2.C6H5)COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.5M U K1=2.60 1974KHb (81572)3335

C12H16N2O8S4 H6L (7852)
N,N'-Bis(dithiocarboxy)-N,N'-bis-1,1'-(1,2-dicarboxyethyl)ethylenediamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.1M U K1=13.7 1999SAa (81614)3336

C12H16O4S6 L CAS 66785-63-5 (7805)
1,4,7,10,13,16-Hexathiacyclooctadecane-2,3,11,12-tetraone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ con none 25°C 0.0 C T H K1=5.67 1998GRa (81688)3337
DH(K1)=-73.9 kJ mol⁻¹, DS(K1)=-139 J K⁻¹ mol⁻¹.
Also data for 15-45 C

C12H18N2O8 H2L CAS 93031-52-8 (5829)
1,4-Dioxa-7,10-diazacyclododecane-5,12-dione-7,10-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=7.0 2002DCb (81829)3338
Medium: 0.10 M Me4NNO3.

C12H18N2O10 H5L CAS 105147-09-9 (1081)
1-Carboxy-1,3-diaminopropane-N,N,N',N'-tetraethanoic acid;

(HOOCCH2)2NCH(COOH)(CH2)2N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=13.33 1988MGa (81907)3339
K(Cd+H2L)=3.87
K(Cd+HL)=9.10

B(Cd2L)=17.18

K(CdL+H)=6.12

K(CdHL+H)=3.38

C12H18N4O7P2S H3L Cocarboxylase T CAS 136-09-4 (894)
Thiamine pyrophosphoric acid, Aneurine pyrophosphoric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 KCl 25°C 0.20M U 2000MLa (81934)3340
K(2Cd+2HL+2H=Cd2H4L2)=21.19
K(2Cd+2HL+H=Cd2H3L2)=15.79
K(2Cd+2HL=Cd2H2L2)=10.76

C12H18O8S4 H4L CAS 51865-19-1 (1140)
(Butanediyliidenetetraethio)tetraethanoic acid; ((HOOC.CH2.S)2.CH.CH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF NaCl04 25°C 0.10M U K1=3.58 1975JBa (81964)3341

C12H20N2O2 H2L CAS 6310-76-5 (3387)
4,4'-Ethylenedi-iminodi(pentan-2-one);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 alc/w 25°C 0.2M U K1=6.83 1999MTc (82004)3342
Medium: 0.2 M KCl in 3:7 v/v H2O/EtOH

C12H20N2O8 H4L CAS 1798-13-6 (4935)
1,2-Diaminobutane-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.CH(C2H5).N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 KNO3 20°C 0.10M U K1=18.06 1969NDa (82017)3343

C12H20N2O8 H4L CAS 40623-42-5 (1101)
1,2-Diaminoethane-N,N'-di(2-pentane-1,5-dioic acid); (CH2NHCH(COOH)CH2CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE KNO3 25°C 0.10M U K1=8.76 1972GBe (82051)3344

Cd++ g1 KNO3 30°C 1.0M U K1=6.35 1972TSf (82052)3345

C12H20N2O8 H4L CAS 61368-60-3 (3389)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-di-2-propanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=15.92 1966MKb (82122)3346

C12H20N2O8 H4L CAS 40623-42-5 (3388)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-dipropanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=11.8	1952CMc (82155)3347	

C12H20N2O8		H4L						CAS 2458-58-4 (922)		
1,4-Diaminobutane-N,N,N',N'-tetraethanoic acid; (HOOC.CH2)2N.(CH2)4.N(CH2.COOH)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U	H			1964ANa (82203)3348	
K(Cd+CdL)=2.20										
By calorimetry: DH(K1)=-12.0 kJ mol-1, DS=189 J K-1 mol-1										

Cd++	gl	KNO3	20°C	0.10M	U			K1=12.02	1964LAa (82204)3349	
K(Cd+HL)=6.79										

Cd++	gl	KCl	20°C	0.10M	U			K1=11.87	1964PCa (82205)3350	
------	----	-----	------	-------	---	--	--	----------	---------------------	--

Cd++	EMF	NaNO3	20°C	0.10M	C			K1=11.87	1957SSa (82206)3351	
K(Cd+HL)=6.72										

Method: H electrode

C12H20N2O8 H4L BDTA CAS 868-43-9 (1742)
DL-2,3-Diaminobutane-N,N,N',N'-tetraethanoic acid;
(HOOC.CH2)2N.CH(CH3).CH(CH3).N(CH2.COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	20°C	0.10M	U			K1=18.82	1971ISa (82272)3352	
K(Cd+HL)=2.77										

Cd++	vlt	KNO3	20°C	0.10M	U			K1=19.09	1966DMa (82273)3353	
------	-----	------	------	-------	---	--	--	----------	---------------------	--

Cd++	oth	KNO3	20°C	0.10M	U			K1=18.51	1965JMb (82274)3354	
------	-----	------	------	-------	---	--	--	----------	---------------------	--

Method: electrophoresis

Cd++	gl	KNO3	20°C	0.10M	U			K1=18.71	1964MNa (82275)3355	

C12H20N2O8		H4L						CAS 22968-57-6 (3992)		
meso-2,3-Diaminobutane-N,N,N',N'-tetraethanoic acid; (HOOC.CH2)2N.CH(CH3).CH(CH3).N(CH2.COOH)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo

Cd++ sp KNO3 20°C 0.10M U K1=16.86 1971ISa (82372)3356
By ion-selective electrode: K1=16.59, K(Cd+HL)=3.67

Cd++ sp NaClO4 20°C 0.10M U K1=16.74 1971ISa (82373)3357

Cd++ vlt KNO3 20°C 0.10M U K1=16.77 1966DMa (82374)3358

Cd++ oth KNO3 20°C 0.10M U K1=18 1965JMb (82375)3359
Method: electrophoresis

Cd++ gl KNO3 20°C 0.10M U K1=16.77 1964MNa (82376)3360

C12H20N2O8S H4L TEDTA CAS 923-74-0 (3394)
2,2'-Thiobis(ethyliminodiethanoic acid); S(CH2.CH2.N(CH2.COOH)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U H K1=14.38 1964ANa (82442)3361
K(Cd+HL)=8.28
By calorimetry: DH(K1)=-34.3 kJ mol⁻¹, DS=158 J K⁻¹ mol⁻¹

Cd++ gl KCl 20°C 0.10M U K1=14.0 1964PCa (82443)3362

Cd++ EMF NaNO3 20°C 0.10M U K1=15.03 1957SSa (82444)3363
K(Cd+HL)=9.29

C12H20N2O9 H4L EEDTA CAS 923-73-9 (2112)
Oxa-bis(ethyleneimino)diethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2O

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ cal KNO3 25°C 0.10M U H 1965WHa (82512)3364
DH(K1)=-40.5 kJ mol⁻¹, DS=171 J K⁻¹ mol⁻¹

Cd++ gl KNO3 20°C 0.10M U H K1=16.2 1964ANa (82513)3365
K(Cd+HL)=9.9
By calorimetry: DH(K1)=-39.4 kJ mol⁻¹, DS=176 J K⁻¹ mol⁻¹

Cd++ gl KNO3 20°C 0.10M U K1=17.75 1964PCa (82514)3366

Cd++ EMF KNO3 20°C 0.10M U K1=16.64 1962MMc (82515)3367

Cd++ EMF NaNO3 20°C 0.10M U K1=16.27 1957SSa (82516)3368
K(Cd+HL)=9.90

C12H20N2O10 H4L CAS 10258-50-1 (3993)
(2,3-Dihydroxytetramethylenedinitrilo)tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ oth oth/un ? ? U 1967Lda (82581)3369
B(Cd2L)=17.49

Method: high-frequency titration

C12H20N4 L (6709)
3,7,10,16-Tetraazabicyclo[10.3.1]hexadeca-1(16),12,14-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=11.64 1993CDa (82604)3370
K(Cd(OH)L+H)=10.02

C12H20N4O6 H2L (7078)
1,4,7,10-Tetraazacyclododeca-2,9-dione-4,7-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ nmr none 23°C 0 U M 1997IMa (82621)3371
K(CdL+HA)=2.0
K(CdL+B)=2.2

HA=histamine, B=imidazole

Cd++ gl KCl 25°C 0.10M C K1=7.3 1996IOa (82622)3372
B(CdHL)=9.9
B(CdH-1L)=-3.1
B(CdH-2L)=-15.4

C12H20O8N2 H4L (6908)
2-Methyl-1,2-diaminopropane-N,N,N'N'-tetraethanoic acid;
(HOOC.CH2)2N.CH2.C(CH3)2.N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M C K1=17.92 1978NLa (82666)3373

C12H21NO6 H3L (7209)
1-Carboxy-1-aminoheptane-N,N-diethanoic acid; HOOC.CH(C6H13)N(CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=9.84 1985Lbc (82690)3374

C12H21N3O6 H3L NOTA (5589)
1,4,7-Triazacyclononane-N,N',N''-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=16.0 1975HTa (82725)3375

C12H22N2O6 H2L (6394)

1,7-Dioxa-4,10-diazacyclododecan-4,10-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=14.09 1992ADa (82788)3376
Medium: 0.1 M Me4NNO3

C12H22N2O6 H2L (6641)
7,10-Diaza-1,4-Dioxacyclododecane-7,10-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=13.58 1992ADa (82802)3377
Medium: 0.1 M Me4NNO3

C12H22N4O6 H2L ICRF 226 CAS 83266-80-2 (8370)
N,N'-(1-Ethyl-1,2-ethanediy1)bis[N-(2-amino-2-oxoethyl)glycine];

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 37°C 0.15M C 1984Mwb (82841)3378
B(CdH2L)=16.12
B(CdHL2)=22.15
B(CdH2L2)=25.77

Method: competition with EDTA

C12H22O12 HL Lactobionic acid CAS 96-82-2 (2487)
4-O-Beta-D-Galactopyranosyl-D-gluconic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 20°C 0.10M C 1997FEb (82925)3379
B(CdH-2L)=-15.54

C12H22S L CAS 7133-46-2 (5698)
S,S-Dicyclohexylsulfide; C6H11.S.C6H11

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE non-aq 25°C 100% U K1=0.34 B2=0.48 1986MMb (82936)3380
Medium: acetone, Bu4NClO4

C12H23N3O5 H2L (6393)
1-Oxa-4,7,10-triazacyclododecan-4,10-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=16.362 1992ADa (82969)3381
B(CdHL)=17.86
Medium: 0.1 M Me4NNO3

 C12H23N3O5 H2L CAS 499238-78-7 (8836)
 N-Hydroxy-N'-[5-(hydroxymethylamino)-5-oxopentyl]-N-methylpentanediamide;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KNO3 25°C 0.20M C K1=5.30 2004FBa (82983)3382
 B(CdHL)=12.93

 C12H23N3O5 H2L CAS 499238-79-8 (8835)
 N-Hydroxy-N'-[6-(hydroxymethylamino)-6-oxohexyl]-N-methylbutanediamide;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KNO3 25°C 0.20M C K1=6.41 2004FBa (82993)3383
 B(CdHL)=13.02

 C12H23O2PS2 HL CAS 6028-46-2 (4960)
 O,O-Dicyclohexyldithiophosphoric acid; (C6H11O)2PS.SH

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ cal non-aq 30°C 100% U M 1971DGB (83009)3384
 K(2CdL2=Cd2L4)=3.40
 K(Cd2L4+2py)=5.95
 K(CdL2+py)=4.34
 K(CdL2py+py)=0.58

Medium: benzene

 C12H24N2O3 HL Leu-Leu CAS 36077-41-5 (974)
 Leucyl-leucine; H2N.CH(CH2.CH(CH3)2).CO.NH.CH(CH2.CH(CH3)2).COOH

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KNO3 20°C 0.5M U K1=2.51 1974KHb (83039)3385

 C12H24N4O4 H2L (7522)
 1,4,8,11-Tetraazacyclotetradecane-6,13-dicarboxylic acid

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KCl 25°C 0.50M U K1=15.9 1997BLd (83101)3386
 K(CdL+H)=7.1
 K(CdHL+H)=3.4
 *K(CdL)=-7.2

 C12H24O6 L 18-Crown-6 CAS 17455-13-9 (577)
 1,4,7,10,13,16-Hexaoxacyclooctadecane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ con alc/w 25°C 40% C K1=3.66 2002ISa (83238)3387
Medium: 40% EtOH/H2O.

Cd++ nmr non-aq 27°C 100% C I K1=3.60 2001KZa (83239)3388
Method: 7Li nmr; competitive binding study. Medium: nitromethane.
In acetonitrile, K1=2.10

Cd++ vlt R4N.X 20°C 0.02M U I K1=3.13 2000RCb (83240)3389
Medium: 0.025 M Et4NCl

Cd++ vlt oth/un 20°C 0.03M U K1=3.13 2000RCb (83241)3390
Medium:0.025 M Et4NCl

Cd++ vlt R4N.X 20°C 0.02M C I K1=3.13 2000RCc (83242)3391
Method: SW polarography. Medium: 0.025 M Et4NCl. By DPP, K1=3.09.
Data for 0-76% w/w PrOH/H2O, 0-76% w/w AN/H2O and 0-79% w/w DMF/H2O.

Cd++ nmr non-aq 27°C 100% U I K1=3.07 2000SMd (83243)3392
Competitive method by 7Li nmr. Medium: acetonitrile (AN). Also data for
50% w/w AN/nitrobenzene (K1=3.16) and 50% w/w AN/nitromethane (K1=3.91).

Cd++ vlt R4N.X 22°C 0.03M C I K1=3.03 1991PSa (83244)3393
Medium: 0.025 M Et4NClO4. Method: differential pulse polarography. Data
for 15-75% w/w CH3CN/H2O, 0.025 M Et4NClO4.

Cd++ vlt oth/un RT 0.10M C K1=2 1985LAa (83245)3394
Method: dc polarography. Medium: 0.10 M HNO3.

C12H25NO5 L CAS 33941-15-0 (4939)
1,4,7,10,13-Pentaoxa-16-azacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++ EMF alc/w 25°C 95% U K1=3.7 1993BDd (83701)3395
Medium: 95% v/v MeOH/H2O, 0.1 M Et4NClO4

C12H26N2O4 L Cryptand 2,2 CAS 23978-55-4 (925)
4,7,13,16-Tetraoxa-1,10-diazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++ ISE non-aq 25°C 100% U H K1=3.57 2004DMb (83793)3396
Medium: dmsO, 0.1 M Et4NClO4. DH(K1)=-13 kJ mol⁻¹, DS(K1)=23 J K⁻¹ mol⁻¹

Cd++ gl R4N.X 25°C 0.05M C K1=4.9 1997BCc (83794)3397
Medium: 0.05 M Me4NClO4

Cd++ vlt R4N.X 22°C 0.03M C I K1=4.79 1991PSa (83795)3398
Medium: 0.025 M Et4NClO4. Method: differential pulse polarography. Data

for 15-75% w/w CH3CN/H2O, 0.025 M Et4NClO4.

Cd++ gl R4N.X 25°C 0.10M C K1=4.38 1985CSb (83796)3399
Medium: 0.10 M Et4NClO4.

Cd++ gl alc/w 25°C 95% C K1=7.18 1981ANa (83797)3400
Medium: 95% MeOH, 0.1 M Me4NCl

Cd++ gl NaClO4 25°C 0.50M U K1=5.59 1981KMb (83798)3401

Cd++ gl NaClO4 25°C 0.50M U M K(CdL+I)=2.00 1980KMc (83799)3402

Cd++ gl alc/w 25°C 100% C K1=7.83 1980SAa (83800)3403
B(Cd2L)=11.41
Medium: MeOH, 0.05 M Et4NClO4

Cd++ gl R4N.X 25°C 0.10M C K1=5.31 1977ASc (83801)3404

Cd++ gl R4N.X 25°C 0.10M C H K1=5.25 1975ANa (83802)3405
Calorimetry: DH1=-2.9 kJ mol⁻¹, DS1=90.4

C12H26N4O L (7316)
7-Oxa-1,4,10,13-tetraazabicyclo[2(1,13).2.11]heptadecane

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=4.51 1987HEa (83943)3406

C12H26N12 L (7007)
1,10-Di(2-(5-tetraazolyl)ethyl)-1,4,7,10-tetraazadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 20°C 0.10M U K1=14.24 1981ESa (83968)3407

C12H26OS L CAS 2180-20-3 (5699)
S,S-Dihexylsulfoxide; C6H13.SO.C6H13

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE non-aq 25°C 100% U K1=3.74 B2=7.01 1986MMb (83973)3408
B3=8.31
B4=9.18

Medium: acetone, Bu4NClO4

C12H26S L CAS 6294-31-3 (5697)
S,S-Dihexylsulfide; C6H13.S.C6H13

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE non-aq 25°C 100% U K1=0.32 B2=0.59 1986MMb (84031)3409
Medium: acetone, Bu4NC104

C12H27N3O2 L (7053)
1,4-Dioxa-7,11,15-triazacycloheptadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=8.23 K(CdLOH+H)=10.15	1994CDa (84057)	3410

C12H27N3O3 L THETAC (7199)
1,4,7-Tris(hydroxyethyl)-1,4,7-triazacyclononane

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaNO3	25°C	0.10M	U			K1=10.56	1999CUa (84081)	3411
Cd++	vlt	NaNO3	25°C	0.1M	C			K1=10.61	1996CHa (84082)	3412

Method: Differential Pulse Polarography. By potentiometry (gl): K1=10.52

Cd++	gl	NaNO3	25°C	0.10M	C			K1=10.59	1996LHb (84083)	3413
------	----	-------	------	-------	---	--	--	----------	-----------------	------

C12H27N3S3 HL TACN-TM (6952)
1,4,7-Tris(2-mercaptoethyl)-1,4,7-triazacyclononane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	C			K1=23.7 B(CdHL)=35.1 B(CdH2L)=41.2	1995MWa (84098)	3414

C12H27N5 L (7315)
1,4,7,10,13-Pentaazabicyclo[2.2.11]heptadecane

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=14.7	1987HEa (84102)	3415

C12H27N5 L CAS 107976-34-1 (7541)
Bis(2-piperazinyethyl)amine; (NH(CH2CH2)2NCH2CH2)2NH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=4.27 B(CdHL)=13.64 B(CdH2L)=22.31 K(CdL+H)=9.4 K(CdHL+H)=8.7	1998BBb (84105)	3416

C12H27N5O2 HL (7521)
6-Methyl-1,4,8,11-tetraazacyclotetradecane-6-amino-3-carboxylic acid

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.50M	U			K1=16.7 K(CdL+H)=6.8 K(CdHL+H)=6.0 *K(CdL)=-7.1	1997BLd (84110)	3417

C12H28N2O9P2 H4L (7242)
1,4,10-Trioxa-7,13-diazacyclopentadecane-7,13-diylldimethylenediphosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=13.30 B(CdHL)=20.06 B(CdH2L)=25.58 B(Cd2H-1L)=7.69 B(Cd2L)=17.38	2000PSa (84149)	3418

Medium: 0.10 M [Et4N]NO3.

Cd++	gl	KNO3	25°C	0.10M	U			K1=10.93 K(Cd+HL)=7.53 K(Cd+H2L)=4.02	1996BJa (84150)	3419
------	----	------	------	-------	---	--	--	---	-----------------	------

C12H28N4 L CAS 76282-33-2 (2883)
1,4,7,10-Tetramethyl-1,4,7,10-tetraazacyclododecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=13.06	1990HWa (84177)	3420

C12H28N4 L CAS 24772-41-6 (145)
1,5,9,13-Tetraazacyclohexadecane; cyclo(-(NH.CH2.CH2.CH2)4-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	U			K1=12.65	1991LHa (84194)	3421

C12H28N4O L (7305)
1-(2-Hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=8.2 B(CdHL)=14.5 B(CdH-1L)=-1.1	1997RWa (84206)	3422

Medium: Et4NC104

 C12H28N4O2 L CAS 296-36-6 (2472)
 1,10-Dioxa-4,7,13,16-tetraazacyclooctadecane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ dis non-aq 25°C 100% C I 2004CCa (84226)3423
 K(Cd+A+L(org))=CdAL(org))=11.33
 Distribution of CdA2 from H2O into CH2Cl2. A is nitrate. For the N-tetra-
 benzyl- derivative, K'=12.12. Distribution into CHCl3, K=11.02; K'=11.19.

 Cd++ gl NaNO3 25°C 0.10M U K1=10.90 1990WHa (84227)3424

 Cd++ gl NaNO3 25°C 0.10M C K1=10.90 1989HBa (84228)3425

 C12H28N4O2 L CAS 40025-71-6 (5880)
 1,4-Dioxa-7,10,13,16-Tetraazacyclooctadecane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaNO3 25°C 0.10M C K1=10.00 1989HBa (84243)3426
 B(CdHL)=16.02

 C12H29N5 L CAS 82583-20-6 (97)
 1,4,7,11,14-Pentaazacycloheptadecane; cyclo(-(NH.C2H4)3.CH2(NH.C2H4)2.CH2-)

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaClO4 25°C 0.20M M H K1=15.5 1978KKb (84258)3427
 B(CdHL)=19.7

DH1=-52.7 kJ mol-1

 C12H30N3O9P3 H6L DOPHET CAS 123325-12-2 (227)
 1,4,7-Tris(beta-dioxyphosphorylethyl)-1,4,7-triazacyclononane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KNO3 25°C 1.0M U K1=15.83 1988MKa (84275)3428
 K(Cd+HL)=11.0
 K(Cd+H2L)=8.45
 K(Cd+H3L)=6.71

 C12H30N4 L (6740)
 Tris(2-(dimethylamino)ethyl)amine; N(CH2CH2.N(CH3)2)3

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaClO4 25°C 1.00M C K1=7.32 1994AGa (84301)3429

 C12H30N6 L CAS 296-35-5 (143)

1,4,7,10,13,16-Hexaazacyclooctadecane; cyclo(-(NH.CH2.CH2)6-)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.15M	C			K1=18.80	1989BBb (84320)	3430
Cd++	gl	NaClO4	25°C	0.20M	U	H		K1=17.9	1980KKb (84321)	3431

DH=-59 kJ mol⁻¹, DS=142 J K mol⁻¹

C12H30N6 L (6409)

6,13-Dimethyl-1,4,8,11-tetraazacyclotetradecane-6,13-diamine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.50M	U			K1=10.6 K(CdL+H)=7.5 K(CdHL+H)=5.7	1997BLd (84374)	3432

Cd++	gl	KCl	25°C	0.50M	U			K1=12.1 K(CdL+H)=5.9 K(CdH-1L+H)=7.4	1994LLb (84375)	3433
------	----	-----	------	-------	---	--	--	--	-----------------	------

Data are for the syn isomer. For the anti isomer, K1=10.6, K(CdL+H)=7.5, K(CdHL+H)=5.7.

C12H32N4O8P4 H4L (7111)

1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetrayltetramethylenetetakis(phosphinic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=17.34 B(CdHL)=18.92	1995BLa (84386)	3434

C12H32N4O12P4 H8L DOTPH CAS 91987-74-5 (229)

1,4,7,10-Tetraazacyclododecane-N,N',N'',N'''-tetramethylenephosphonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	1.0M	U			K1=22.9 K(Cd+HL)=19.3 K(Cd+H2L)=15.3 K(Cd+H3L)=13.5 K(Cd+H4L)=10.3	1984KMb (84400)	3435

C12H32N6 L (6455)

2,5,8,11,14,17-Hexaazaooctadecane;

CH3.NH.(CH2)2.NH.(CH2)2.NH.(CH2)2.NH.(CH2)2.NH.C(CH2)2.NH.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++ gl NaClO4 25°C 0.15M C H K1=15.289 1991ABa (84427)3436
B(CdHL)=21.116
K(Cd+HL)=10.84

DH(K1)=-64.8 kJ mol⁻¹.

C12H32N6 L (3377)
5-Ethyl-5-(4-amino-2-azabutyl)-1,9-diamino-3,7-diazanonane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U K1=14.4 1963Gcb (84445)3437
K(Cd+HL)=10.1

C13H9NOBrCl HL (6173)
N-(2-Hydroxy-5-bromobenzylidene)-4-chloroaniline; Cl.C6H4.N:CH.C6H3(OH)Br

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 28°C 75% U K1=4.00 1988Mnb (84531)3438

C13H9NOS HL (4945)
2-(2'-Thienyl)-8-hydroxyquinoline; HO.C9H5N.C4H3S

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=6.15 B2=13.18 1969CBa (84538)3439
Medium: 50% dioxan, 0.1 M NaClO4

C13H9NOS HL CAS 3411-95-8 (1683)
2-(2-Hydroxyphenyl)benzothiazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 20°C 50% U K1=<5.5 1959HOa (84547)3440

C13H9NO2 HL (3403)
2-(2'-Hydroxyphenyl)benzoxazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 20°C 50% U K1=7.2 1959HOa (84562)3441

C13H9N3OS HL TAN CAS 1147-56-4 (4030)
1-(1',3'-Thiazol-2'-ylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp oth/un 20°C 0.05M U K1=9.18 B2=17.88 1967NAa (84612)3442

C13H9N3O4 HL (6260)

3-Formyl-4-hydroxy-3'-nitroazobenzene; HO.(CHO)C6H3.N:N.C6H4.NO2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 28°C 0.20M U K1=5.20 1977WJa (84635)3443
Data also for 2' and 4-nitro analogues

C13H10NOBr HL (6171)
N-(2-Hydroxy-5-bromobenzylidene)aniline; C6H5.N:CH.C6H3(OH)Br

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 28°C 75% U K1=4.51 1988MNb (84672)3444

C13H10NO2Br H2L (1385)
2'-Hydroxy-5'-bromobenzophenone oxime; Br(HO)C6H3.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=4.26 1982UVa (84689)3445

C13H10NO2Cl HL (8130)
N-(2-Chlorophenyl)benzohydroxamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=6.48 B2=11.36 1986ARb (84708)3446
Also data for the N-(2-chlorophenyl)-3-methoxy, 3-methyl, 3-fluoro,
3-chloro, 3-bromo-, 3-iodo and 3-nitro-benzohydroxamic acids.

C13H10NO2Cl HL CAS 78154-49-1 (5649)
N-3-Chlorophenylbenzohydroxamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=9.04 B2=16.45 1994JBb (84733)3447
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

C13H10N2 L CAS 3002-77-5 (3400)
2-Methyl-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis KCl 25°C 0.10M U K1=5.15 B2=9.65 1962IMa (84777)3448
K3=3.65

C13H10N2 L CAS 3003-78-6 (2752)
5-Methyl-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 35°C 0.10M C M K1=5.05 B2= 9.53 1998LYa (84802)3449
B(CdLA)=12.98
B(CdHLA)=20.23

A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.

Cd++ ISE alc/w 25°C 50% U K1=5.32 B2=10.59 1972BBa (84803)3450
B3=15.03

Medium: 50% EtOH, 0.1 M KNO3

Cd++ dis KNO3 25°C 0.10M U K1=6.13 B2=11.03 1962MBa (84804)3451
K3=5.00

Cd++ gl KNO3 25°C 0.10M U K2=5.2 1956YSb (84805)3452
K3=4.3

C13H10N2O HL CAS 5496-07-1 (3404)
2-(2'-Hydroxyphenyl)benzimidazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 35°C 60% U K1=5.00 B2=9.50 1984MLa (84822)3453

Cd++ gl alc/w 20°C 50% U K1=4.8 1959HOa (84823)3454

C13H10N2O HL CAS 65782-79-8 (4978)
4-Amino-5-hydroxyacridine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=7.05 B2=13.08 1970CBc (84832)3455
Medium: 50% dioxan, 0.1 M NaClO4

C13H10N2O2 HL CAS 27147-03-1 (6307)
2-Hydroxy-5-(phenylazo)benzaldehyde; C6H5.N:N.C6H3(CHO)(OH)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 28°C 50% U K1=4.30 B2=7.80 1975JTb (84846)3456

C13H10N2O3 HL CAS 19357-10-9 (9111)
N-(2-Pyridyl)-2-carboxybenzamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 40% U K1=5.42 B2= 9.66 2002GSa (84859)3457
Medium: 40% v/v DMF/H2O, 0.1 M NaClO4.

C13H10N2O4 H2L CAS 15766-65-6 (1384)
2-Hydroxy-5-nitrobenzophenone oxime; HO(NO2)C6H3.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=2.86 1982UVa (84870)3458

C13H10N2O5 H3L (1389)
2,4-Dihydroxy-5-nitrobenzophenone oxime; (HO)2(NO2)C6H2.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=5.85 1982UVa (84916)3459

C13H10N4S HL CAS 3788-81-6 (4014)
2-Picolinylaldehyde 2-benzothiazolylhydrazone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=8.76 B2=16.87 1965HRa (84966)3460

C13H10O2S HL CAS 10471-74-6 (3405)
Benzoyl-2-thenoylmethane; C6H5.CO.CH2.CO.C4H3S

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.66 B2=16.48 1953UFa (84984)3461

C13H10O3 HL CAS 5910-23-6 (3399)
Benzoyl-2-furoylmethane; C6H5.CO.CH2.CO.C4H3O

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.46 B2=16.05 1953UFe (84997)3462

C13H11NO HL CAS 779-84-0 (3406)
N-Salicylideneaniline; HO.C6H4.CH:N.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 50% U K1=3.74 1988BDa (85029)3463
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.

Cd++ gl diox/w 27°C 50% U K1=3.98 1972SDb (85030)3464
Medium: 50% dioxan, 0.1 M NaClO4

C13H11NOS HL CAS 56048-80-7 (5018)
N-Thiobenzoyl-N-phenylhydroxylamine; C6H5.CS.N(C6H5)OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=9.40 B2=17.81 1971DTc (85056)3465

C13H11NO2 HL CAS 1761-56-4 (3408)
2-(Salicylideneamino)phenol, Salicylaldehyde-2-hydroxyanil; HO.C6H4.CH:N.C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 20°C 50% U K1=4.5 B2=8.5 1959HOa (85068)3466

C13H11NO2 H2L (1383)
2-Hydroxybenzophenone oxime; HO.C6H4.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=4.71 1982UVa (85074)3467

C13H11NO2 HL CAS 304-88-1 (181)
N-Phenylbenzohydroxamic acid; C6H5.CO.N(C6H5).OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=9.46 B2=17.25 1994JBb (85134)3468
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

C13H11NO3 H3L CAS 3147-44-2 (1388)
2,4-Dihydroxy-benzophenone oxime; (HO)2C6H3.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=7.01 1982UVa (85192)3469

C13H11NO3 H2L CAS 156357-28-7 (8319)
N-(p-Hydroxyphenyl)benzohydroxamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=8.61 B2=15.61 1994JBb (85199)3470
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
For N-(m-hydroxyphenyl)benzohydroxamic acid, K1=8.46, K2=6.93.

C13H11N3O2 H2L CAS 62031-25-8 (1119)
4-Hydroxy-3-oximinomethylazobenzene; (HO)(HO.N:CH)C6H3.N:N.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 28°C 60% U K1=6.20 B2=10.80 1978WPa (85277)3471

Cd++ gl alc/w 25°C 42% U K1=4.75 B2=8.01 1974MSb (85278)3472

C13H11N3O4S2 HL Tenoxicam CAS 59804-37-4 (8393)
4-Hydroxy-2-methyl-N-2'-pyridinyl-2H-thien[2,2-e]-1,2-thiazine-3-carboxamide-1,1-di

oxide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 50% C K1=3.8 2002Mwa (85285)3473
Medium: 50% v/v CH3CN/H2O, 0.05 M NaNO3.

C13H11N3O5S H3L (5019)
4-Hydroxy-3-oximinomethylazobenzene-4'-sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 42% U K1=3.27 B2=6.20 1973DSa (85295)3474
Medium: 42% EtOH, 0.2 M NaClO4

C13H12N2S L diPh-thiourea CAS 102-08-9 (1075)
1,3-Diphenyl-2-thiourea; C6H5.NH.CS.NH.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt alc/w 20°C 15% U I K1=0.30 B2=0.90 1982Mca (85387)3475
B3=1.0
B4=1.3

Medium: 15% w/w EtOH/H2O, 0.2 M LiClO4. Also data for 0.2, 0.4, 0.6 mol fr.

C13H12N2S L (2601)
N,N-Diphenylthiocarbamide; (C6H5)2N.CS.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE mixed 25°C 82% U K1=2.85 1979TBb (85392)3476
Medium: 82% formamide

C13H12N4O L Diphenylcarbazon. CAS 538-62-5 (1195)
Diphenylcarbazon; C6H5.NH.NH.CO.N:N.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=5.6 B2=10.50 1986MHb (85405)3477

C13H12N4S L Dithizone CAS 60-10-6 (1801)
Diphenylthiocarbazon; C6H5.NH.NH.CS.N:N.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp diox/w 25°C 50% U K1=7.11 1974MFa (85446)3478

Cd++ sp NaClO4 25°C 0.10M U K1=7.81 B2=15.10 1973BSe (85447)3479

C13H13NO L CAS 35854-45-6 (297)

2-(2-Phenyl-2-hydroxy)ethylpyridine; (C6H5)(OH)CHCH2C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=1.35 1974ILa (85497)3480

C13H14N2 L CAS 104986-55-2 (4972)
1,3-Bis(2'-pyridyl)-propane; C5H4N.CH2.CH2.CH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=1.3 1970BAa (85572)3481
K(Cd+HL)=1.0

C13H14N4 L CAS 13103-75-8 (473)
4-(2-Pyridylazo)-N,N-dimethylaniline; C5H4N.N:N.C6H4.N(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ kin KNO3 16°C 0.10M U K1=2.7 1964WIa (85676)3482

C13H15NO HL CAS 91956-75-1 (4023)
2-Butyl-8-hydroxyquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl oth/un 25°C 0.0 U K1=9.28 B2=18.26 1966KUC (85699)3483

C13H15N3OS HL CAS 76877-50-4 (1291)
2-(4',5'-Dimethyl-2-thiazolylazo)-4,6-dimethylphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 60% U K1=7.54 B2=15.03 1981KTA (85857)3484

C13H15N3OS HL CAS 76877-45-7 (1295)
2-(4',5'-Dimethyl-2-thiazolylazo)-4-ethylphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 60% U K1=6.83 B2=13.62 1981KTA (85866)3485

C13H15N3O2S HL CAS 76877-49-1 (1293)
2-(4',5'-Dimethyl-2-thiazolylazo)-4-methyl-6-methoxyphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 60% U K1=7.28 B2=14.09 1981KTA (85890)3486

C13H15N3O3 HL Gly-Trp CAS 2390-74-1 (3411)

Glycyltryptophan;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  oth/un 25°C 0.10M U          K1=2.7          1954PEa (85898)3487
*****
C13H16N4O5          HL          CAS 76877-51-5 (1290)
2-(4',5'-Dimethyl-2-thiazolylazo)-5-dimethylaminophenol;
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 25°C 60% U          K1=8.89  B2=17.51  1981KTa (85942)3488
*****
C13H17NO3          HL          CAS 94287-43-2 (902)
L-2-(Benzoylamino)-4-methylpentanoic acid; (CH3)2CHCH2CH(NHCO.C6H5)COOH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3 25°C 0.10M U T H      K1=2.72          1980SKa (85975)3489
In 50% v/v dioxan. Temperature range 25-45C. At 35C, DH=13.8 and DS=97.7.
*****
C13H17NO6          H2L          CAS 77553-78-7 (6078)
N-(2-Hydroxy-1-(hydroxybenzyl)-iminodiethanoic acid;
HO.CH2.CH(CH(OH)(C6H5)).N(CH2.COOH)2
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaClO4 25°C 1.0M C          K1=5.84  B2= 7.99  1981ASb (85989)3490
*****
C13H17N3O          L    Aminopyrine          (2030)
1-Phenyl-2,3-dimethyl-4-dimethylamino-5-pyrazolone, Dimethylaminoantipyrine;
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3 25°C 0.50M U          K1=1.47  B2=2.24  1980LWa (85996)3491
*****
C13H17N3O5          H2L    Gly-Gly-Tyr          CAS 17343-07-6 (2001)
Glycyl-glycyl-tyrosine; H2N.CH2.CO.NH.CH2.CO.NH.CH(CH2.C6H4.OH).COOH
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       sp  oth/un 25°C 1.50M U          K1=1.5          1982ISb (86007)3492
*****
C13H19N3          L          (6739)
2,6-Bis(pyrrolidin-2-yl)pyridine;
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3 25°C 0.12M U  H      K1=8.02          1993BGB (86067)3493
B(rac-CdL2)=13.72
-----
```

B(meso-CdL2)=14.17

C13H20O8S4 H4L CAS 51865-20-4 (1139)
(Pentanediylydenetetraethio)tetra-ethanoic acid; ((HOOCCH2S)2CHCH2)2.CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U K1=3.42 1975JBa (86154)3494

C13H21N3O L CAS 473793-88-3 (8976)
7-Oxa-3,11,17-triazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=6.35 2001CDb (86164)3495
*K(CdL)=-9.73

C13H22N2O8 H4L CAS 1798-14-7 (921)
(Pentamethylenedinitrilo)tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2)2CH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U H K1=11.6 1964ANa (86185)3496
K(Cd+HL)=6.9

By calorimetry: DH(K1)=-18.6 kJ mol⁻¹, DS=157 J K⁻¹ mol⁻¹

C13H22N2O8 H4L CAS 1198-14-7 (5004)
1,2-Diaminopentane-N,N,N',N'-tetraethanoic acid; (HOOCCH2)2NCH2CH(C3H7)N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=18.05 1969NDa (86219)3497

C13H22N2O8 H4L (7164)
2,4-Diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(CH3)CH2CH(CH3)N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=13.98 1981NSc (86246)3498

C13H22N2O8 H4L (5003)
3-Methyl-1,2-diaminobutane-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=18.06 1969NDa (86274)3499

C13H22N4 L (6710)
3,7,11,17-Tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=9.759 K(Cd(OH)L+H)=10.30	1993CDa (86322)	3500

C13H22N4O6		H2L						CAS 93031-56-2 (7079)		
1,4,7,10-Tetraazacyclotrideca-2,9-dione-4,7-diethanoic acid;										
Cd++	nmr	none	23°C	0	U	M		K(CdL+HA)=2.2 K(CdL+B)=2.5	1997IMa (86345)	3501
HA=histamine, B=imidazole										
Cd++	gl	KCl	25°C	0.10M	C			K1=7.4 B(CdHL)=9.6 B(CdH-1L)=-3.2 B(CdH-2L)=-15.2	1996IOa (86346)	3502

C13H23N3O8		H4L						(3414)		
N-Methyl-2,2'-iminobis(ethyliminodiethanoic acid);										
Cd++	EMF	NaNO3	20°C	0.10M	U			K1=17.44	1957SSa (86393)	3503

C13H24N2O6		H2L						(5610)		
1,11-Dioxa-4,8-diazacyclotridecane-N,N'-diethanoic acid;										
Cd++	gl	R4N.X	25°C	0.10M	C			K1=11.93 K(CdL+H)=3.63 *K(CdL)=-10.98	1998CCd (86406)	3504
Medium: 0.10 M Me4NNO3.										

C13H26O6		L						19-Crown-6 CAS 55471-27-7 (8943)		
1,4,7,10,13,16-Hexaoxacyclononadecane;										
Cd++	con	oth/un	25°C	dil	C			K1=1.54	1999TMa (86492)	3505
Self medium (Cd(NO3)2).										

C13H28N4O2		L						CAS 17023-02-8 (7247)		
3,3,9,9-Tetramethyl-4,8-diazaundecane-2,10-dione dioxime; (HON:C(CH3)C(CH3)2NHCH2)2CH2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	35°C	0.10M	C	M	K1=6.88 B(CdHL)=14.86	1998LYa (86532)	3506
Ternary complexes with 5-substituted-1,10-phenanthrolines. *****									
C13H29N3O L (6454) 4,8,12-Trimethyl-1-oxa-4,8,12-triazacyclotetradecane;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U		K1=4.7 B(CdH-1L)=-4.95 K(CdL+OH)=4.17	1991ACa (86547)	3507

C13H29N5 L CAS 157522-20-8 (7542) Bis(2-piperazinylethyl)methylamine; (NH(CH2CH2)2NCH2CH2)2NCH3									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C		K1=3.48 B(CdHL)=12.08 B(CdH2L)=20.48 K(CdL+H)=8.6 K(CdHL+H)=8.4	1998BBb (86553)	3508

C13H30N2O4 L CAS 139-90-2 (3415) N-(2-Hydroxyethyl)-N,N',N'-tri(2-hydroxypropyl)ethylenediamine;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.50M	U		K1=7.73	1960HDa (86557)	3509

C13H30N4O L CAS 252191-62-1 (7610) 1-(3-Hydroxypropyl)-1,4,8,11-tetraazacyclotetradecane;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C		K1=9.4 K(Cd+HL)=4.2 K(CdL=CdH-1L+H)=-8.8	1999DWa (86566)	3510
Medium: 0.1 M NEt4ClO4 *****									
C14H8N3OCl HL CAS 25732-24-5 (5080) 10-Chloro-7-hydroxyindolo(2,3-b)quinoxaline;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	diox/w	?	50%	U		K(Cd+HL=CdL+H)=(?)3.01	1970KMc (86596)	3511

 C14H8N3OCl HL CAS 25732-23-4 (5079)
 7-Chloro-10-hydroxyindolo(2,3-b)quinoxaline;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp alc/w ? 50% U K1=4.18 1970KMc (86600)3512

C14H8N3O8S2F3 HL (9231)
 1-(2-Thenoyl),4-trifluoro,2-[2-hydroxy-2-sulpho-5-nitrophenylazo]butadi-1,3-one;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.1M U K1=7.41 B2=13.86 2004ACa (86607)3513

C14H8N4O4Br2S H2L 3,5-di-Br-PAHQ5 (7223)
 7-(3,5-Dibromo-2-pyridyl)-azo)-8-hydroxyquinoline-5-sulfonic acid;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp KNO3 25°C 0.10M C K1=15.98 1990HCa (86616)3514

C14H8N4O4Cl2S H2L (6672)
 7-((3,5-Dichloro-2-pyridyl)azo)-8-hydroxyquinoline-5-sulfonic acid;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp KNO3 25°C 0.10M C K1=15.93 1990HCa (86620)3515

C14H9NO4 H2L Alizarin Maroon CAS 3963-78-8 (1052)
 3-Amino-1,2-dihydroxyanthraquinone;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C M K1=5.41 B2= 6.10 1984ISe (86810)3516
 B(CdA2L)=9.89
 B(CdB2L)=10.05

HA is eosin, H2B is rosebengal.

 C14H9N2OClS HL (562)
 N-(2'-Hydroxy-5'-chlorobenzylidene)-4-aminobenzothiazole;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 0.10M U K1=5.4 B2=10.70 1978SUa (86818)3517

C14H9N3O HL CAS 25732-18-7 (5042)
 1-Hydroxyindolo(2,3-b)quinoxaline;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w ? 50% U K1=5.65 B2=12.0 1970KMc (86827)3518

Cd++ gl diox/w 25°C 50% U K1=6.33 B2=12.36 1970MKg (86828)3519
Medium: 50% v/v dioxan, 0.01 M (H,K)NO3

C14H9N3O HL CAS 25732-19-8 (5043)
4-Hydroxyindolo(2,3-b)quinoxaline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w ? 50% U K1=5.60 B2=12.05 1970KMc (86839)3520

Cd++ gl diox/w 25°C 50% U K1=6.08 B2=13.85 1970MKg (86840)3521
Medium: 50% v/v dioxan, 0.01 M (H,K)NO3

C14H10N2O5 HL CAS 5005-14-1 (563)
N-(2'-Hydroxybenzylidene)-4-aminobenzothiazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 0.10M U K1=6.4 B2=11.40 1978SUa (86899)3522

C14H10N3OBrS HL (5096)
2-(6'-Bromobenzothiazol-2'-ylazo)-4-methylphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp oth/un ? ? U B2=7.43 1971GZa (86909)3523

C14H11N04 H2L CAS 279-92-0 (3430)
2,2'-Iminodibenzoic acid; HOOC.C6H4.NH.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 50% U K1=3.47 B2=6.54 1973DSb (86968)3524
Medium: 50% EtOH, 0.2 M NaClO4

Cd++ gl diox/w 35°C 50% U K1=5.8 1958YSa (86969)3525

C14H11N04 H2L CAS 156357-30-1 (8320)
N-(p-Carboxyphenyl)benzohydroxamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=8.40 B2=15.24 1994JBb (86975)3526
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

For N-(o-carboxyphenyl)benzohydroxamic acid, K1=7.99, K2=6.57.

C14H11N3O HL CAS 24854-76-0 (1380)

2-(1H-Benzimidazol-2-yl-methylene-amino) phenol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	60%	U			K1=6.90	19840Ra (86991)	3527
Data also for 4-Cl- and 4-NO2- analogues										

C14H12NOBr		HL		CAS 20772-74-1		(6172)				
N-(2-Hydroxy-5-bromobenzylidene)-4-methylaniline; HO(Br)C6H3.CH:N.C6H4.CH3										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	mixed	28°C	75%	U			K1=4.97	1988MNb (87039)	3528

C14H12N2		L		CAS 484-11-7		(450)				
2,9-Dimethyl-1,10-phenanthroline;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	50%	M	I M			1990BDb (87122)	3529
K(CdL+thr)=4.64										
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3. Also data for 0.05 and 0.20 M NaNO3 in EtOH/H2O. At I=0, K(CdL+thr)=5.00.										

Cd++	dis	KCl	25°C	0.10M	U			K1=4.1	B2=7.4	1962IMa (87123)	3530
K3=3.0											

Cd++	gl	KNO3	25°C	0.10M	U			K1=2.8	1956YSb (87124)	3531

C14H12N2O2		HL		(6311)						
4-Hydroxy-3-formyl-2'-methylazobenzene; (HO)(CHO)C6H3.N:N.C6H4.CH3										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo	
Cd++	gl	diox/w	28°C	50%	U			K1=4.82	B2=8.93	1975JTb (87173)	3532

C14H12N2O2		HL		(6328)							
4-Hydroxy-3-formyl-4'-methylazobenzene; (HO)(CHO)C6H3.N:N.C6H4.CH3											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo	
Cd++	gl	diox/w	28°C	50%	U			K1=4.75	B2=8.26	1975JTb (87183)	3533

C14H12N2O3		H2L		CAS 4870-46-6		(3432)					
2-Hydroxy-5-methyl-2'-carboxy-azobenzene; HO.C6H3(CH3).N:N.C6H4.COOH											

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U				1957SFb (87206)	3534
K(Cd+H2L=CdL+2H)=-9.8										

C14H12N2O4 H2L (3433)
2,2'-Hydrazodibenzoic acid; HOOC.C6H4.NH.NH.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 35°C 50% U K1=4.7 1958YSa (87238)3535

C14H12N4O HL CAS 66751-18-6 (5048)
1-(5-Methyl-4-imidazolylazo)-2-naphthol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=10.4 B2=18.40 1968YTa (87307)3536

Medium: 50% dioxan, 0.1 M KNO3

C14H12N6O3 HL Pterotic acid CAS 119-24-4 (7751)
4-[(2-Amino-4-oxo-6-pteridylmethyl)amino]benzoic acid ;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaClO4 25°C 0.15M C K1=5.00 B2=10.88 1989EGa (87321)3537

Method: differential pulse polarography. Medium pH = 7.4.

C14H13NO HL CAS 3246-73-9 (5056)
N-(Salicylidene)-2-methylaniline; CH3.C6H4.N:CH.C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 27°C 50% U K1=3.80 B2=7.38 1972Sdb (87366)3538

Medium: 50% dioxan, 0.1 M NaClO4

C14H13NO HL CAS 952-81-8 (5057)
N-(Salicylidene)-3-methylaniline; CH3.C6H4.N:CH.C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 27°C 50% U K1=3.82 B2=7.52 1972Sdb (87373)3539

Medium: 50% dioxan, 0.1 M NaClO4

C14H13NO HL CAS 982-76-3 (5058)
N-(Salicylidene)-4-methylaniline; CH3.C6H4.N:CH.C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 27°C 50% U K1=4.20 1972Sdb (87383)3540

Medium: 50% dioxan, 0.1 M NaClO4

C14H13NO2 H2L (1387)
2'-Hydroxy-5'-methylbenzophenone oxime; HO(CH3)C6H3.C(:NOH)C6H5

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 30°C  50%  U           K1=4.93      1982UVa (87390)3541
*****
C14H13NO2          HL      DPAHA          CAS 4463-22-3 (880)
2,2'-Diphenylacetohydroxamic acid; (C6H5)2.CH.CO.NH.OH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  alc/w  20°C  50%  U TIH    K1=5.00  B2=9.23  1979RSb (87400)3542
DH(K1)=-18.4 kJ mol-1, DS=33.1 J K-1 mol-1, DH(K2)=-16.5, DS=25
*****
C14H13NO2          HL      N,2'-DPAHA    CAS 13663-57-5 (879)
N,2'-Diphenylacetohydroxamic acid; C6H5.CH2.CO.N(C6H5).OH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  alc/w  30°C  50%  U   M    K1=4.50  B2=7.84  1992RAa (87421)3543
B(CdL(phen))=4.22
-----

```

```

-----
Cd++      gl  alc/w  20°C  50%  U T H    K1=4.64  B2=8.14  1985RSd (87422)3544
30 C:K1=4.50, K2=3.34; 40 C, K1=4.35, K2=3.20; 50 C, K1=4.20, K2=3.10
DH(K1)=-24.0 kJ mol-1, DS=6.8 J K-1 mol-1; DH(K2)=-31.0, DS=2.6
-----

```

```

-----
Cd++      gl  alc/w  30°C  50%  U T      K1=4.50  B2=7.84  1981RSa (87423)3545
Medium: 50% v/v EtOH, 0.1 M KNO3
*****
C14H13NO2          HL      CAS 1503-92-0 (1817)
N-(4-Tolyl)benzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 30°C  50%  U           K1=10.27 B2=19.15 1994JBb (87441)3546
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.
*****
C14H13NO2          HL      CAS 19064-76-7 (5061)
N-2'-Hydroxybenzylidene-4-methoxyaniline; HO.C6H4.CH:N.C6H4.OCH3
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  alc/w  25°C  50%  U           K1=4.43      1988BDa (87459)3547
Medium: 50% v/v EtOH/H2O, 0.10 M NaNO3.
*****
C14H13NO2          HL      CAS 1143-74-2 (4044)
N-2-Tolylbenzohydroxamic acid; C6H5.CO.N(C6H4.CH3).OH
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  diox/w 30°C  50%  U           K1=10.19 B2=18.85 1994JBb (87476)3548
-----

```

Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

C14H13NO3 H2L (1386)
2-Hydroxy-5-methoxybenzophenone oxime; HO(CH3O)C6H3.C(:NOH)C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=4.55 1982UVa (87536)3549

C14H13NO4S H2L (3660)
2-Aminobenzenesulfonic acid 2-hydroxyacetophenone Schiff base;
HSO3.C6H4.N:C(CH3).C6H4.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U T H K1=3.38 1977SMd (87571)3550

C14H13O2P HL CAS 3064-56-0 (7013)
2-(Diphenylphosphino)-ethanoic acid; (C6H5)2P.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U K1=2.3 1979POa (87631)3551

C14H14N2O10 H5L CAS 41379-95-7 (5070)
2-Carboxymethylamino-5-(bis(carboxymethyl)amino)-1,4-dibenzoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=8.55 1973UWb (87668)3552

K(Cd+HL)=3.80

K(Cd+H2L)=2.70

C14H14N4 L CAS 98240-13-2 (4033)
N,N'-Bis(2'-picolinylidene)-1,2-diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% C M 20010Hb (87678)3553

Method: distribution from buffered 0.10 M NaCl into nitrobenzene.

K(Cd+3L(org)+2A=CdL3A2(org))=14.9. HA is picric acid.

C14H15N2O8Cl H4L (1903)
4-Chloro-1,2-diaminobenzene-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.50M C K1=12.53 B2=17.68 2001SEa (87740)3554

B(CdHL)=14.72

B(CdH3L2)=30.19

B(CdH2L2)=27.05

B(CdHL2)=23.08

B(Cd2H2L)=18.97, B(Cd2L)=13.88.

Cd++ gl KCl 25°C 0.10M U K1=12.15 1990MDa (87741)3555
B(CdHL)=14.58

C14H16N2 L CAS 1620-43-7 (5033)

1,4-Bis(2'-pyridyl)butane; C5H4N.CH2.CH2.CH2.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=1.1 1970BAa (87835)3556
K(Cd+HL) < 1

C14H16N2O4S H2L Dansyl-Gly CAS 1091-85-6 (5845)

N-Dansylglycine, (5-Dimethylamino)naphthalene-1-sulfonoglycine;
(CH3)2N.C10H6.SO2.NH.CH2.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaClO4 25°C 0.10M C I K1=4.90 B2=6.14 1988GBb (87900)3557

B(CdLOH)=9.17

B(CdL2OH)=12.52

B(CdL(OH)2)=12.77

B(CdL2(OH)2)=15.83

Data also for methanol solution: K1=11.00, B2=12.17, B(CdLOH)=13.25,

B(CdL2OH)=15.98, B(CdL(OH)2)=14.60, B(CdL2(OH)2)=17.60

C14H16N2O8 H4L CAS 40774-59-2 (1901)

1,2-Diaminobenzene-N,N,N',N'-tetraethanoic acid; C6H4(N(CH2.COOH)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.50M C K1=13.00 B2=17.35 2001SEa (87935)3558

B(CdHL)=15.08

B(CdH3L2)=30.53

B(CdH2L2)=27.40

B(CdHL2)=23.35

B(Cd2H2L)=19.63, B(Cd2L)=14.62.

Cd++ gl NaClO4 25°C 1.00M C H K1=13.37 1992ANb (87936)3559

By calorimetry: DH(K1)=-18.9 kJ mol⁻¹, DS=193 J K⁻¹ mol⁻¹

C14H16N2O8 H4L (6108)

1,3-Phenylenediamine-N,N'-disuccinic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.50M C K1=2.472 1989FRa (87988)3560

B(CdHL)=12.48
B(CdHL2)=21.05
K(Cd+L+OH)=15.27

By differential-pulse polarography: K1=10.18, B2=13.74,
B(CdHL)=12.70, B(CdHL2)=21.06, K(Cd+L+OH)=13.40.

Cd++ gl NaNO3 25°C 0.10M C K1=10.10 1995CCb (88104)3566
From differential pulse polarography and diff. pulse voltammetry: K1=10.22

Cd++ gl KNO3 25°C 0.10M U H K1=9.66 1975APc (88105)3567
DH(K1)=-40.6 kJ mol⁻¹, DS=49.0 J K⁻¹ mol⁻¹

Cd++ gl oth/un 25°C 0.10M U K1=9.9 1964PCa (88106)3568

C14H20O5 L Benzo15-crown-5 CAS 14098-44-3 (608)
2,3-Benzo-1,4,7,10,13-pentaoxacyclopentadeca-2-ene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ nmr non-aq 25°C 100% C I K1=1.81 2004TAa (88227)3569
Method: ¹¹³Cd nmr. Medium: acetonitrile. Also data for 80% AN/H₂O and
20-60% AN/nitromethane.

Cd++ con alc/w 25°C 40% C K1=1.83 2002ISa (88228)3570
Medium: 40% EtOH/H₂O.

Cd++ nmr non-aq 27°C 100% C K1=4.79 2000SMg (88229)3571
Medium: acetonitrile. Method: competitive ⁷Li nmr technique.

Cd++ vlt oth/un RT 0.10M C K1=3.40 1985LAa (88230)3572
Method: dc and ac polarography. Medium: 0.10 M HNO₃.

C14H21NO7 HL CAS 85906-10-1 (6635)
2-(Benzylamino)-2-deoxy-D-glycero-D-gulo-heptonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U K1=3.23 B2=5.83 1992VDA (88407)3573
B(CdH2L2)=21.13

C14H22N2O8 H4L CDTA CAS 482-54-2 (200)
trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KNO3 30°C 1.0M U I K1=18.87 1965JGb (88548)3574
K1=19.12(I=0.1)

Cd++ cal KNO3 25°C 0.10M U H 1965WHa (88549)3575
DH(K1)=-46.8 kJ mol⁻¹, DS=209 J K⁻¹ mol⁻¹

Cd++ cal KNO3 20°C 0.10M U T H 1963ANb (88550)3576
DH(K1)=-30.9 kJ mol-1, DS=275 J K-1 mol-1

Cd++ gl KNO3 20°C 0.10M U H K1=19.88 1963ANf (88551)3577
By calorimetry, DH(K1)=-40.0 kJ mol-1, DS=276 J K-1 ml-1

Cd++ dis NaClO4 20°C 0.10M U K1=19.0 1963STc (88552)3578

Cd++ vlt KNO3 20°C 0.10M U K1=19.23 1954SGa (88553)3579
K(CdL+H)=4.53

C14H22N2O10 H5L (1083)
1-Carboxy-1,5-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(COOH)(CH2)4N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=12.22 1988TGe (88896)3580
K(Cd+H2L)=3.33
K(Cd+HL)=9.46
B(Cd2L)=17.24
B(Cd2L2)=27.36

*K(CdH2L)=-3.56, *K(CdHL)=-6.44.

C14H22N4O8P2S H3L HETPP CAS 10241-38-0 (6093)
2-(1 Hydroxyethyl)thiamine pyrophosphate;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.20M U 2000MLa (88912)3581
K(2Cd+2HL+2H=Cd2H4L2)=21.88
K(2Cd+2HL+H=Cd2H3L2)=16.57
K(2Cd+2HL=Cd2H2L2)=11.33

C14H22N6O5 HL Asp-Ala-His-Me CAS 66277-14-3 (2223)
Aspartyl-alanyl-histidine-N-methylamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C M K1=3.66 1983DOa (88976)3582
B(CdHL)=10.03
B(CuCdH-2L)=0.46

C14H22O5 H2L CAS 85785-29-1 (2250)
Di(hepta-4,6-dione)ether, (CH3.CO.CH2.CO.(CH2)3)2O

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 24°C 50% U K1=7.0 1979ACa (88989)3583

C14H23N3O10 H5L DTPA CAS 67-43-6 (238)
 Diethylenetriamine-pentaethanoic acid; HOOC.CH2.N(CH2.CH2.N(CH2.COOH)2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C			K1=17.85	2001CKb	(89117)3584
Method: cyclic voltammetry. Medium: pH 10.										
Cd++	gl	NaCl	37°C	0.15M	C			K1=17.03 B(CdHL)=20.80 B(CdH2L)=23.59	1984DMb	(89118)3585
Cd++	ISE	KNO3	25°C	0.10M	U			K1=11.97	1983YWa	(89119)3586
Cd++	vlt	NaClO4	25°C	0.20M	U			K1=18.8	1975LWa	(89120)3587
Cd++	gl	oth/un	25°C	0.10M	U	H		K1=18.9	1974DTa	(89121)3588
DH=-51.8 kJ mol-1										
Cd++	sp	oth/un	20°C	0.0	U			K1=19.1	1968KAb	(89122)3589
Cd++	cal	KNO3	20°C	0.10M	U	T H			1965ANa	(89123)3590
DH(K1)=-51.6 kJ mol-1, DS=194 J K-1 mol-1										
Cd++	cal	KNO3	25°C	0.10M	U	H			1965WHa	(89124)3591
DH(K1)=-51.8 kJ mol-1, DS=188 J K-1 mol-1										
Cd++	EMF	KNO3	25°C	0.10M	U			K1=19.0	1960HRa	(89125)3592
Cd++	gl	KNO3	25°C	0.10M	C			K1=19.0 K(CdL+H)=3.9	1960WAa	(89126)3593
Cd++	EMF	oth/un	20°C	0.10M	U			K1=19.31 K(Cd+HL)=12.75 K(CdL+Cd)=2.86	1959AND	(89127)3594
Cd++	gl	KNO3	25°C	0.10M	U			K1=18.9 B2=21.2	1959CFc	(89128)3595
Cd++	gl	oth/un	20°C	0.10M	U			K1=18.93	1958DRa	(89129)3596

C14H23N3S2 L CAS 771500-58-4 (9194)
 5-(3-Aminopropyl)-2,8-dithia-5-aza-2,6-pyridinophane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=10.3 K(CdL+H)=5.1 K(CdL+OH)=2.9	2004BBe	(89458)3597

Medium: 0.1 M Me4NO3

C14H24N2O8 H4L (5075)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-di-2-butyric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=15.26 1969NDc (89501)3598

C14H24N2O8 H4L HMDTA CAS 1633-00-7 (920)
1,6-Diaminohexane-N,N,N',N'-tetraethanoic acid; ((HOOC.CH2)2N.CH2.CH2.CH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U H K1=11.9 1964ANa (89557)3599
K(Cd+HL)=6.99
K(CdL+Cd)=2.2

By calorimetry: DH(K1)=-17.8 kJ mol-1, DS=167 J K-1 mol-1

Cd++ EMF NaNO3 20°C 0.10M U K1=11.70 1957SSa (89558)3600
K(Cd+HL)=6.98

Cd++ gl NaNO3 20°C 0.10M U K1=11.70 1955SAC (89559)3601

C14H24N2O8 H4L CAS 1633-00-7 (5076)
4-Methyl-1,2-diaminopentane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH2CH(N(CH2COOH)2)CH2CH(CH3)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=17.98 1969NDa (89625)3602

C14H24N2O8 H4L EDTP (2936)
Diaminoethane-N,N,N',N'-tetrapropanoic acid; (HOOC.CH2CH2)2N.CH2CH2.N(CH2CH2.COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C I K1=7.25 1989LKa (89671)3603
B(CdHL)=12.6

Cd++ vlt NaClO4 25°C 0.30M U K2=2.74 1969KTb (89672)3604

Cd++ gl KCl 30°C 0.10M U K1=6.0 1953CCb (89673)3605

C14H24N2O8S2 H4L (3441)
2,2'-Ethylenebisthio(ethyliminodiethanoic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF NaNO3 20°C 0.10M U K1=13.57 1957SSa (89696)3606
K(Cd+HL)=8.30

 C14H24N2O9 H4L CAS 87720-52-3 (1593)
 2,2'-Oxybis(propyliminodiethanoic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	20°C	0.10M	U			K1=14.22 K(Cd+HL)=8.20	1961ISa (89705)	3607

 C14H24N2O9 H4L BPETA CAS 87720-52-3 (5077)
 Bis-(3-di(carboxymethyl)aminopropyl)ether;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	M			K1=13.80 K(Cd+HL)=8.26	1986PLc (89721)	3608

Cd++	gl	KCl	20°C	0.10M	U			K1=14.22 K(Cd+HL)=8.20	1961ISa (89722)	3609
------	----	-----	------	-------	---	--	--	---------------------------	-----------------	------

 C14H24N2O10 EGTA CAS 67-42-5 (349)
 Ethyleneglycol-0,0'-bis(2-aminoethyl ether)-N,N,N',N'-tetraethanoic acid; H4L

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	ISE	KNO3	25°C	0.10M	U			K1=16.32	1983YWa (89809)	3610
Cd++	gl	NaClO4	25°C	3.00M	C			K1=15.02 B(CdHL)=18.76	1976CWa (89810)	3611

Cd++	gl	oth/un	25°C	0.10M	U	H		K1=16.6	1974DTa (89811)	3612
------	----	--------	------	-------	---	---	--	---------	-----------------	------

DH(K1)=-58.9 kJ mol⁻¹

Cd++	gl	alc/w	25°C	99%	U			K1=16.0	1972Rba (89812)	3613
------	----	-------	------	-----	---	--	--	---------	-----------------	------

Medium: 99% MeOH, 0.1 M NaClO4

Cd++	cal	KCl	25°C	0.10M	U	H			1965BBe (89813)	3614
------	-----	-----	------	-------	---	---	--	--	-----------------	------

DH(K1)=-62.3 kJ mol⁻¹, DS=107.4 J K⁻¹ mol⁻¹

Cd++	cal	KNO3	25°C	0.10M	U	H			1965WHa (89814)	3615
------	-----	------	------	-------	---	---	--	--	-----------------	------

DH(K1)=-58.9 kJ mol⁻¹, DS=121 J K⁻¹ mol⁻¹

Cd++	gl	KNO3	20°C	0.10M	U	H		K1=16.1 K(Cd+HL)=10.14	1964ANa (89815)	3616
------	----	------	------	-------	---	---	--	---------------------------	-----------------	------

By calorimetry: DH(K1)=-61.9 kJ mol⁻¹, DS=97.0 J K⁻¹ mol⁻¹

Cd++	EMF	KNO3	20°C	0.10M	U			K1=16.70	1962MMc (89816)	3617
------	-----	------	------	-------	---	--	--	----------	-----------------	------

Cd++	EMF	KNO3	25°C	0.10M	U			K1=16.7	1960HRa (89817)	3618
------	-----	------	------	-------	---	--	--	---------	-----------------	------

Cd++ EMF NaNO3 20°C 0.10M U K1=16.73 1957SRa (89818)3619
K(Cd+HL)=10.27

C14H24N4 L CAS 106202-21-5 (6711)
7-Methyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=8.77 1993CDa (89998)3620
K(Cd(OH)L+H)=9.62

C14H25N3O8 H4L DEATA CAS 97315-55-4 (5601)
N,N-Bis(2-aminoethyl)ethylamine-N',N',N'',N''-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M M K1=16.49 1986PLc (90095)3621
K(Cd+HL)=9.35

C14H25N3O9 H4L CAS 4454-15-3 (5078)
(N-(2-Hydroxyethyl)-2,2'-iminodiethylene)dinitrilo)tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KCl ? 0.10M U K1=14.43 1968VLa (90112)3622

C14H26N2O7 H2L (1567)
1,4,10-Trioxa-7,13-diazacyclopentadecane-N,N'-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=13.432 1987DDb (90167)3623
B(Cd2L)=15.62

Cd++ gl R4N.X 25°C 0.10M M K1=12.95 1986COb (90168)3624

C14H26N2O8 H2L (6658)
1,4,10,13-Tetraoxa-7,16-diaza-2,3-dicarboxycyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=7.3 1990AFa (90219)3625
B(CdHL)=14.5
B(Cd(OH)L)=12.7

C14H27N3O5 H2L (6473)
1-Oxa-4,8,12-triazacyclotetradecane-4,12-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=11.55 1992CDa (90285)3626
B(CdHL)=15.4
B(CdH-1L)=2.0

Medium: 0.10 M (NMe4)NO3.

C14H28N2O4 L Cryptand 2,1,1 CAS 31250-06-3 (836)
1,10-Diaza-4,7,13,18-tetraoxabicyclo[8,5,5]eicosane (2,1,1);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.05M C K1=5.3 1997BCc (90339)3627
Medium: 0.05 M Me4NClO4

Cd++ gl alc/w 25°C 100% C K1=<7.7 1980SAa (90340)3628
Medium: MeOH, 0.05 M Et4NClO4

Cd++ EMF non-aq 25°C 100% C K1=<5.5 1979BLb (90341)3629
Method: Ag electrode; competition with Ag+. Medium: MeOH, 0.05 M
Me4NClO4.

C14H28N2O6 HL CAS 82353-42-2 (5850)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7-ethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=7.82 1988CCc (90475)3630

C14H30N2O4 L CAS 31255-13-7 (2448)
N,N'-Dimethyl-cyclo-1,10-diaza-4,7,13,16-tetraoxaoctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl oth/un 25°C ? C K1=4.04 1991DMa (90570)3631

C14H30N2O4 L (6566)
N,N,N',N'-Tetrakis(2-hydroxyethyl)-trans-1,2-diaminocyclohexane;
C6H10(N(CH2.CH2OH)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=7.61 B2=10.29 1991DCa (90596)3632
K(CdL+OH)=3.25
B(Cd3L2)=22.06

C14H30N2O5 L (6722)
7,13-Bis(2-hydroxyethyl)-1,4,10-trioxa-7,13-diazacyclopentadecane

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=7.70 1995LLa (90623)3633

Medium: Et4NC104

C14H30N4O L (7383)
1-(2-Hydroxycyclohexyl)-1,4,7,10-tetraazacyclododecane; HO.C6H10.C8H11N4

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=14.58 1997DHa (90647)3634

C14H30N4O2 L (6364)
1,7,10,16-Tetraaza-4,13-dioxabicyclo[14.2.2]eicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=4.79 1990WHa (90657)3635

C14H32N2O4 L CAS 102-60-3 (2678)
Tetra(2-hydroxypropyl)-N,N,N',N'-diaminoethane; (-CH2.N(CH2.CH(OH).CH3)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.50M U K1=7.98 1995CMa (90735)3636
B(CdHL)=11.75
B(CdH-1L)=11.14

Cd++ gl oth/un 25°C 0.50M U K1=7.80 1960HDa (90736)3637

Cd++ gl oth/un 27°C 0.05M U K1=7.62 1959KEc (90737)3638

C14H32N2O10P2 H4L CAS 81963-60-2 (7240)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diyldimethylenediphosphonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=11.30 2000PSa (90757)3639
B(CdHL)=19.60
B(CdH2L)=25.54
B(Cd2H-1L)=5.46
B(Cd2L)=15.31

Medium: 0.10 M [Et4N]NO3. B(Cd2H-2L)=-4.22.

Cd++ gl KNO3 25°C 0.10M U K1=10.73 1996BJa (90758)3640

K(Cd+HL)=8.97

K(Cd+H2L)=4.46

C14H32N4 L 4-Mecyclam-14 CAS 41203-22-9 (935)
1,4,8,11-Tetramethyl-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=9.0 1990HWa (90797)3641

Cd++ gl NaNO3 25°C 0.10M U M K1=9.0 1983Nwa (90798)3642
K(CdL+OH)=5.60

C14H32N4O2 L CAS 252191-60-9 (7608)
1,4-Bis(3-hydroxypropyl)-1,4,7,10-tetraazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=11.8 1999DWa (90816)3643
K(CdL=CdH-1L+H)=-10.0

Medium: 0.1 M NEt4ClO4

C14H33N5O2 L (6916)
1,4-Dioxa-7,10,13,16,19-pentaazacycloheneicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=13.73 1994ABa (90830)3644
K(CdL+H)=4.52

C14H34N6 L (7075)
1,10-Dimethyl-1,4,7,10,13,16-hexaazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=16.91 1996BBa (90855)3645
B(CdHL)=21.44
K(Cd+HL)=11.66

C14H36N4O12P4 H8L CAS 107446-90-2 (2015)
1,4,7,11-Tetraazacyclotetradecane-N,N',N'',N'''-tetramethylphosphonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 1.00M U K1=16.7 1987PBa (90866)3646
K(Cd+HL)=15.1
K(Cd+H2L)=13.0
K(Cd+H3L)=9.9

C14H36N6 L TAPEN CAS 4879-98-5 (5715)
N,N,N',N'-Tetrakis(3-aminopropyl)diaminoethane; (-CH2.N(CH2.CH2.CH2.NH2)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=9.46 1994ABd (90895)3647
K(CdL+H)=9.89
K(CdHL+H)=8.23
B(Cd2H-1L)=4.19

$$B(\text{Cd}2\text{H}-2\text{L})=-5.51$$

$$K(\text{Cd}2\text{L}(\text{OH})=\text{Cd}2\text{L}(\text{OH})2+\text{H})=-9.5.$$

C14H37N7 L CAS 298-85-5 (5606)

1,4,7,10,13,16,19-Heptaazacycloheneicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=18.10 1989BBb (90909)3648
B(CdHL)=22.59
K(CdL+H)=4.49

C14H37N7 L (6456)

2,5,8,11,14,17,20-Heptaazaheneicosane; CH3.(NH.(CH2)2)6.NH.CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C H K1=14.497 1991ABa (90923)3649
B(CdHL)=23.240
B(CdH2L)=28.48
K(Cd+HL)=13.04
K(Cd+H2L)=8.66

$$\text{DH}(K1)=-61.9 \text{ kJ mol}^{-1}.$$

C15H9N3O4Cl2S H2L 3,5-di-Cl-aPANS (7224)

2-(3,5-Dichloro-2-pyridyl)-azo)-1-hydroxynaphthalene-4-sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp KNO3 25°C 0.10M C K1=9.31 1990HCa (90941)3650

C15H10O3 HL CAS 577-85-5 (3443)

3-Hydroxyflavone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 20°C 75% U K1=9.70 B2=18.11 1960KFc (90975)3651

C15H11N02 H2L (430)

2-(2'-Hydroxyphenyl)-8-hydroxyquinoline; HO.C6H4.C9H5N.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=12.57 1974CCb (91054)3652

C15H11N04 HL CAS 1776-18-7 (955)

3-Phenyl-1-(2'-hydroxy-5'-nitrophenyl)-2-propen-1-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 35°C 70% U K1=4.48 B2=8.56 1982SLb (91073)3653

C15H11NS HL CAS 15759-12-3 (5689)
2-Phenyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF non-aq 25°C 100% U K1=7.5 B2=13.10 1986UBa (91088)3654
Medium: dimethylformamide, LiClO4

C15H11NS HL CAS 75955-26-9 (5690)
4-Phenyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF non-aq 25°C 100% U K1=6.5 B2=11.90 1986UBa (91093)3655
Medium: dimethylformamide, LiClO4

C15H11NS2 HL CAS 100549-76-6 (5692)
5-Thiophenyl-8-mercaptoquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF non-aq 25°C 100% U K1=6.4 B2=11.30 1986UBa (91099)3656
Medium: dimethylformamide, LiClO4

C15H11N3 L CAS 1148-79-4 (488)
2,2':6'2"-Terpyridine; C5H4N.C5H3N.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ kin oth/un 25°C var U K1=5.1 1966HHa (91144)3657

C15H11N3O HL (5108)
2-(2'-Pyridylazo)-1-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis alc/w 25°C 20% U K1=8.70 B2=17.83 1979KHa (91256)3658
Medium: 20% v/v EtOH/H2O, 0.1 M KNO3

C15H11N3O HL CAS 4312-09-8 (989)
5-Phenylazo-8-hydroxyquinoline; C6H5.N:N.C9H5N.OH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=7.5 B2=14.35 1965TFa (91264)3659
Medium: 50% dioxan, 0.1 M NaClO4

C15H11N3O2 H2L (4062)

8-Hydroxy-5-(2'-hydroxyphenylazo)quinoline;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 25°C 50% U      K1=7.1   B2=13.81 1965TFa (91278)3660
Medium: 50% dioxan, 0.1 M NaClO4
*****
```

C15H11N3O2 H2L CAS 4563-87-5 (4063)
 8-Hydroxy-5-(3'-hydroxyphenylazo)quinoline;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 25°C 50% U      K1=7.7   B2=14.30 1965TFa (91285)3661
Medium: 50% dioxan, 0.1 M NaClO4
*****
```

C15H11N3O2 H2L CAS 5087-35-4 (4064)
 8-Hydroxy-5-(4'-hydroxyphenylazo)quinoline;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  diox/w 25°C 50% U      K1=7.9   B2=14.46 1965TFa (91292)3662
Medium: 50% dioxan, 0.1 M NaClO4
*****
```

C15H11N3O2 L CAS 74378-23-7 (2745)
 Phenanthrenequinone monosemicarbazone; C14H8(:O)(:N.NH.CO.NH2)

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaClO4 25°C 0.10M C TIH  K1=6.08  B2=11.64 1985SMa (91301)3663
*****
```

C15H11N3O4S H2L 1-PAN-4S (7010)
 2-(2-Pyridylazo)-1-naphthol-4-sulfonic acid;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       sp  NaNO3 25°C 0.10M C      1982JHb (91323)3664
K(Cd+H2L=CdHL+H)=-1.28
K(Cd+H2L=CdL+2H)=-3.85
K(Cd+2H2L=CdL2+4H)=-8.22
*****
```

C15H11N3O7S2 H3L CAS 17852-90-3 (5131)
 7-(4-Sulfophenylazo)-8-hydroxyquinoline-5-sulfonic acid;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       sp  NaClO4 25°C 0.10M U      K1=6.32      1993HKb (91347)3665
*****
```

C15H11N3O8S2 H4L (6674)
 7-((2-Hydroxy-5-sulfophenyl)azo)-8-hydroxyquinoline-5-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	NaClO4	25°C	0.10M	U			K1=7.52 K(Cd+HL)=6.54	1993HKb (91356)	3666

C15H11N5O		HL						CAS 203864-86-2	(7737)	
2-(o-Hydroxyphenylazo)-2-cyanomethyl-benzimidazole;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	37°C	40%	C			K1=4.85 B2= 8.64	1998AAa (91365)	3667
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4.										
Cd++	gl	alc/w	37°C	40%	C	M		K1=4.85 B2= 8.64 B(Cd(gly)L)=9.38 K(Cd(gly)+L)=4.25 K(CdL+gly)=4.53 B(Cd(ala)L)=9.36	1997AAb (91366)	3668
Medium: 40% v/v EtOH/H2O, 0.15 M NaClO4. K(Cd(ala)+L)=4.27, K(CdL+ala)=4.51; B(Cd(leu)L)=8.47, K(Cd(leu)+L)=4.26, K(CdL+leu)=3.62.										

C15H11O2Cl		HL						CAS 1218-24-2	(953)	
3-Phenyl-1-(2'-hydroxy-5'-chlorophenyl)-2-propen-1-one;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	35°C	70%	U			K1=4.8 B2=9.00	1978SLb (91383)	3669

C15H12N2O		HL						CAS 19726-12-6	(8336)	
3-(2'-Hydroxyphenyl)-5-phenylpyrazole;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	35°C	60%	U			K1=5.92 B2=10.88	1993ALb (91431)	3670
Medium: 60% v/v MeOH/H2O, 0.1 M KNO3. For 4-Cl-phenylpyrazole deriv. K1=5.54, K2=4.80; for 1,5-diphenylpyrazole deriv. K1=8.24, K2=6.60.										

C15H12N4		L						(4056)		
2-Picolinaldehyde 2'-quinolylhydrazone; C5H4N.CH:N.NH.C9H6N										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U			K1=9.52 B2=18.01	1965HRa (91452)	3671

C15H12OS		HL						(1261)		
mono-Thiodibenzoylmethane; C6H5.CO.CH2.CS.C6H5										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	74%	U			K1=6.92 B2=13.79	1969LSa (91482)	3672

Medium: 74.5% dioxan, 0.018 M NaCl
With medium (0.017 NaCl04,74.5% dioxan): K1=9.04, K2=8.65

Cd++ gl diox/w 30°C 75% U K1=10.40 B2=20.48 1969UTa (91483)3673
Medium: 75% dioxan, 0.01 M Me4NI

Cd++ gl diox/w 30°C 75% U K1=10.57 B2=19.53 1966USa (91484)3674

C15H12O2 HL Diphenylacac CAS 120-46-7 (362)
1,3-Diphenylpropane-1,3-dione, Dibenzoylmethane; C6H5.CO.CH2.CO.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.67 B2=16.63 1953UFe (91533)3675

C15H13NOS L CAS 13196-40-2 (2832)
Benzoylthioacetanilide; C6H5.CO.CH2.CS.NH.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KCl 25°C 1.0M U B2=9.52 1982LUa (91618)3676

C15H13N3O HL CAS 104992-04-3 (6852)
2-((1H-Benzimidazo-2-yl-methyl)-iminomethyl)phenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 30°C 60% U M K1=7.80 B2=14.32 1990D0c (91659)3677
K(Cd(bpy)+L)=7.39
K(Cd(phen)+L)=7.18
K(CdA+L)=7.03

A=2-phenylenediamine

Cd++ gl NaCl04 30°C 0.10M U M 1990DPa (91660)3678

K(CdL+catechol)=6.73
K(CdL+Salicylate)=6.42
K(CdL+Gly)=4.14
K(CdL+Ala)=4.07

K(CdL+en)=4.68, K(CdL+diminopropane)=4.21

C15H13N5O2 HL BIAAP CAS 385824-97-5 (8021)
2-(2-Benzimidazolylazo)-4-acetamidophenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp none 25°C 0.0 C K1=7.62 2001MEa (91676)3679

C15H14NOCl HL CAS 268214-29-5 (8398)
4-Chloro-3,5-dimethyl-2-[(phenylimino)methyl]phenol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	M		K1=5.79	2000ANa (91685)	3680
Medium: 75% v/v dioxan/H2O, 0.10 M NaClO4. Data for an extensive series of 4'-substituted phenylimino derivatives.									

C15H14N2O4		H2L					CAS 61908-02-0	(3450)	
N,N'-Methylenedi(anthranilic acid); HOOC.C6H4.NH.CH2.NH.C6H4.COOH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	35°C	50%	U		K1=4.4	1958YSa (91721)	3681

C15H14N2O5S		HL					(9232)		
3-(5-Sulphonylnaphthylazo)penta-2,4-dione;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.1M	U	H	K1=7.08	2004ACb (91732)	3682
for 35 C K1=6.94; for 45 C K1=6.79									

C15H16N4O		L					CAS 15933-19-4	(6218)	
Di(2-methylphenyl)carbazone;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U		K1=4.7 B2=8.90	1986MHb (91936)	3683
Data also for Di-(4-methyl), Di-(2,5-dimethyl), Di-(4-nitro) etc. analogues									

C15H16N4S		L					CAS 3982-97-6	(1802)	
Di-(2-tolyl)-thiocarbazone; CH3.C6H4.NH.NH.CS.N:N.C6H4.CH3									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	diox/w	25°C	50%	U		K1=5.95	1974MFa (91956)	3684

C15H16N4S		L					CAS 16026-13-4	(1805)	
Di-(4-tolyl)-thiocarbazone; CH3.C6H4.NH.NH.CS.N:N.C6H4.CH3									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	diox/w	25°C	50%	U		K1=7.40	1974MFa (91961)	3685

C15H18N2		L					CAS 25382-73-6	(5106)	
1,5-Bis(2-pyridyl)-pentane; C5H4N.(CH2)5.C5H4N									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U		K1=1	1970BAa (92001)	3686
K(Cd+HL) < 1									

C15H18N2O2 L (6395)
1,3-Di-(2'-aminophenoxy)propane; H2N.C6H4.O.CH2.CH2.CH2.O.C6H4.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=<3.0 1990AMa (92007)3687
In 95% methanol/H2O, 0.1 M Et4NC1O4.

C15H18N2O3 HL CAS 116822-13-0 (6743)
5,5-Dimethylcyclohexane-2-(2-hydroxy-4'-methylphenyl)-hydrazono-1,3-dione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 20°C 75% U T H K1=9.29 B2=16.60 1993RAa (92014)3688
Medium: 75% v/v MeOH/H2O; 0.10 M KNO3. Data also for 4-Cl and 4-Me analogues

C15H18N2O8 H4L (1934)
1-Methyl-2,5-diaminobenzene-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ oth oth/un 25°C 0.10M U K1=3.9 1969RMa (92059)3689
K(CdL+H)=5.3

C15H18N2O8 H4L CAS 95478-42-5 (1907)
1-Methyl-2,6-diaminobenzene-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M U K1=3.19 1992DRb (92068)3690
B(CdH2L)=12.82
B(CdHL)=9.03
B(CdHL2)=11.91

C15H18N2O8 H4L CAS 101455-18-9 (1902)
1-Methyl-3,4-diaminobenzene-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.50M C K1=13.76 B2=17.84 2001SEa (92080)3691
B(CdHL)=15.53
B(CdH2L)=17.65
B(CdH2L2)=27.74
B(CdHL2)=23.71

B(Cd2H2L)=20.08, B(Cd2L)=15.00.

C15H18N2O8 H4L (6114)
2,5-Toluenediamine-N,N'-disuccinic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.50M	C			K1=2.837 B(CdHL)=7.635 B(CdH2L)=11.798 B(Cd2L)=3.710	1989FRa (92091)	3692

 C15H20N4 L DPTN CAS 63671-70-5 (1851)
 N,N'-Bis-(2-pyridylmethyl)-1,3-diaminopropane; (C5H4N.CH2.NH.CH2)2CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=8.37	1995CCb (92179)	3693
From differential pulse polarography: K1=8.48										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U	H		K1=8.58	1975APc (92180)	3694
DH(K1)=-32.6 kJ mol ⁻¹ DS=54.8 J K ⁻¹ mol ⁻¹										

 C15H20N4 L (6389)
 N,N'-Di-(2'-aminophenyl)-1,3-diaminopropane; H2N.C6H4.NH.CH2.CH2.CH2.NH.C6H4.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=3.0	1990AMa (92188)	3695
In 95% methanol/H2O, 0.1 M Et4NClO4.										

 C15H23N3O12 H6L CAS 21979-64-6 (4069)
 1,2,3-Tris(N,N-bis(carboxymethyl)amino)propane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U	M		K1=16.18 K(Cd+HL)=13.1 K(CdL+Ca)=2.19	1968MMb (92316)	3696

 C15H25N3O10 H5L (5127)
 Diethylenetriamine-N,N,N'',N''-tetraethanoic acid-N'-propanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	KCl	?	0.10M	U			K1=17.94	1966VLa (92366)	3697

 C15H25N5O L (5844)
 7-(2-Pyridyl)-1,4,8,11-tetraazacyclotetradeca-5-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.10M	M			K1=7.15 B(CdH-1L)=-3.47	1990KKa (92407)	3698

C15H26N4O L (7722)
1,4,7,10-Tetraaza[12]-(2,6)anisocephane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 R4N.X 25°C 0.15M C K1=7.36 2000FFa (92422)3699
K(CdL+H)=7.29
K(CdL+OH)=3.03

Medium: 0.15 M Me4NCl.

C15H27N3O6 H3L (6514)
1,5,9-Triazacyclododecane-N,N',N''-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 R4N.X 25°C 0.10M M K1=15.7 1990CBc (92463)3700
Medium: Me4NCl

C15H27N3O7 H3L (7396)
4,7,11-Tris(carboxymethyl)-1-oxa-4,7,11-triazacyclotridecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 R4N.X 25°C 0.10M C K1=19.854 1997CCa (92476)3701
K(CdL+H)=2.70

Medium: Me4NNO3

C15H28N2O8 H2L (7126)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7-malonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 NaCl 25°C 0.15M U K1=9.71 1995BGa (92493)3702

C15H30N2O3 L CAS 72640-82-5 (6040)
4,7,13-Trioxa-1,10-diazabicyclo[8.5.5]eicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 R4N.X 25°C 0.10M C I K1=5.0 1991DLa (92514)3703
In 95% v/v MeOH/H2O: K1=5.86

C15H30N4O6 H3L (6472)
Tris(4-Carboxy-3-methyl-3-azabutyl)amine; N(CH2.CH2.N(CH3).CH2.COOH)3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ g1 KCl 25°C 0.10M C K1=17.12 1992GBa (92537)3704

C15H32N4O4 H2L (8283)

2,12-Dimethyl-5,9-di(methylcarboxy)-2,5,9,12-tetraazatridecane

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=12.58 K(CdL+H)=6.46	1989HAa (92556)	3705

 C15H33N5 L CAS 200807-76-7 (7543)
 Bis(2-methylpiperazinylethyl)methylamine; (CH3.N(CH2CH2)2NCH2CH2)2NCH3)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=3.09 B(CdHL)=11.01 B(CdH2L)=18.37 K(CdL+H)=7.9 K(CdHL+H)=7.4	1998BBb (92582)	3706

 C15H34N4O L (7317)
 1-(2-Hydroxyethyl)-4,8,11-trimethyl-1,4,8,11-tetraazacyclotetradecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=8.2 B(CdHL)=14.4 B(CdH-1L)=0.5	1997RWa (92590)	3707

Medium: Et4NClO4

 C15H36N3O9P3 H3L (6749)
 1,4,7-Triazacyclononane-N,N'N''-tris(methylenephosphonate monoethylester)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=13.4	1992LRa (92609)	3708

 C16H9N2OBr3 HL CAS 84317-74-8 (5169)
 1-(2,4,6-Tribromophenylazo)-2-hydroxynaphthalene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	mixed	25°C	75%	U			K1=6.33 B2=11.07	1972Mcb (92644)	3709

Medium: 75% acetone, 0.1 M KNO3

 C16H9N3O6Cl2S H3L (6683)
 7-((3,5-Dichloro-2-carboxyphenyl)azo)-8-hydroxyquinoline-5-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	KNO3	25°C	0.10M	U			K1=8.93	1993HKc (92673)	3710

C16H11N2OBr HL CAS 7150-24-5 (5172)
1-(4-Bromophenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=7.13 B2=13.05 1972Mcb (92694)3711
Medium: 75% acetone, 0.1 M KNO3

C16H11N2OCl HL CAS 24390-65-6 (5170)
1-(2-Chlorophenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=6.51 B2=11.87 1972Mcb (92709)3712
Medium: 75% acetone, 0.1 M KNO3

C16H11N2OCl HL CAS 10149-93-6 (5171)
1-(4-Chlorophenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=7.0 B2=12.98 1972Mcb (92724)3713
Medium: 75% acetone, 0.1 M KNO3

C16H11N2OI HL CAS 25023-35-2 (5173)
1-(4-Iodophenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=7.30 B2=13.47 1972Mcb (92739)3714
Medium: 75% acetone, 0.1 M KNO3

C16H11N2O2Cl H2L CAS 3566-94-7 (3474)
1-(5-Chloro-2-hydroxyphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=13.46 1957SFb (92756)3715
K(Cd+H2L=CdL+2H)=-11.0

C16H11N2O9ClS2 H4L Plasmocorinth CAS 1058-92-0 (5203)
3-(5-Chloro-2-hydroxyphenylazo)chromotropic acid (Eriochrome Blue SE)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaCl04 25°C 0.10M C 1994HKb (92785)3716
K(Cd+H3L=CdHL+2H)=12.85

C16H11N3O3 HL CAS 6410-09-9 (5151)
1-(2-Nitrophenylazo)-2-hydroxynaphthalene;

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl mixed 25°C 75% U      K1=3.40      1972Mcb (92793)3717
Medium: 75% acetone, 0.1 M KNO3
*****
C16H11N3O3      HL      CAS 6410-46-1 (5152)
1-(4-Nitrophenylazo)-2-hydroxynaphthalene;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl mixed 25°C 75% U      K1=4.32  B2=8.03  1972Mcb (92808)3718
Medium: 75% acetone, 0.1 M KNO3
*****
C16H11N3O4      HL      (2910)
1,3-Diphenyl-5-hydroxyimino-hexahydropyrimidine-2,4,6-trione;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl diox/w 30°C 75% C      K1=4.35  B2=8.39  1978Mgb (92832)3719
*****
C16H11N3O4      H2L      CAS 14847-54-2 (3461)
1-(2-Hydroxy-5-nitrophenylazo)-2-hydroxynaphthalene;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl diox/w 30°C 75% U      K1=11.80      1957SFb (92843)3720
K(Cd+H2L=CdL=2H)=-9.4
*****
C16H12N2O      HL      CAS 842-07-9 (5156)
1-Phenylazo-2-hydroxynaphthalene;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl mixed 25°C 75% U      K1=7.96  B2=14.74  1972Mcb (92914)3721
Medium: 75% acetone, 0.1 M KNO3
*****
C16H12N2O2      H2L      CAS 9486-98-2 (3462)
1-(2-Hydroxyphenylazo)-2-hydroxynaphthalene;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl mixed 25°C 75% U      K(Cd+HL)=8.16
K(CdHL+HL)=7.16
1972Mcb (92944)3722
Medium: 75% acetone, 0.1 M KNO3
-----

```

```

-----
Cd++       gl diox/w 30°C 75% U      K1=13.03      1957SFb (92945)3723
K(Cd+H2L=CdL+2H)=-11.9
*****

```

C16H12N2O2 H2L CAS 14934-27-1 (5157)
1-(4-Hydroxyphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U 1972MCb (92966)3724
K(Cd+HL)=7.76
K(CdHL+HL)=6.53

Medium: 75% acetone, 0.1 M KNO3

C16H12N2O4S H2L CAS 13964-82-4 (3475)
1-(4-Sulfofenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=4.0 B2=7.18 1972MCb (92992)3725

Medium: 75% acetone, 0.1 M KNO3

C16H12N2O5S H3L SolochromeVio R CAS 94205-83-1 (4093)
1-(2'-Hydroxy-5'-sulfofenylazo)-2-naphthol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl oth/un 25°C 0.0 U M 1963CEa (93019)3726
K(CdL+Gly)=3.32

C16H12O2 HL CAS 56461-08-6 (3453)
2-Benzoylindan-1-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.37 B2=15.31 1959MFa (93142)3727

C16H13N2OCl HL CAS 36458-49-8 (5181)
2-(4-Chlorophenylaminomethyl)-8-hydroxyquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=8.4 1972HUb (93165)3728

Medium: 50% v/v dioxan, 0.1 M KCl

C16H13N2O10AsS2 H5L Thorin I CAS 3688-92-4 (2609)
1-((2-Arsonophenyl)azo)-2-hydroxy-3,6-naphthalylldisulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl oth/un 30°C ? U K1=8.97 1964PCa (93180)3729

C16H13N2O11AsS2 H6L Arsenazo I CAS 520-10-5 (277)
2-(2'-Arsonophenylazo)chromotropic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp oth/un 20°C 0.10M U 1970NMB (93244)3730
K(Cd+HL)=8.47, acetate buffer
K(Cd+HL)=8.42, ammonia buffer

C16H13N4OBr HL CAS 25779-60-6 (4100)
4-(2'-Bromophenylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.8 B2=10.32 1967SSg (93298)3731

C16H13N4OCl HL CAS 6407-74-5 (4097)
4-(2'-Chlorophenylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.0 B2=10.60 1967SSg (93318)3732

C16H13N4OF HL CAS 125910-81-8 (4105)
4-(2'-Fluorophenylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.4 B2=10.84 1967SSg (93337)3733

C16H13N4OI HL (4103)
4-(2'-Iodophenylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.2 B2=9.44 1967SSg (93347)3734

C16H13N5O3 HL CAS 61550-69-0 (4078)
5-Methyl-4-(2'-nitrophenylazo)-1-phenyl-pyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.96 B2=10.26 1967SSg (93372)3735

C16H13N5O3 HL CAS 17041-01-9 (4079)
5-Methyl-4-(3'-nitrophenylazo)-1-phenyl-pyrazol-3(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.5 B2=12.31 1967SSg (93378)3736

C16H13N5O3 HL CAS 17041-02-0 (4080)

5-Methyl-4-(4'-nitrophenylazo)-1-phenyl-pyrazol-3(2H)-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=5.6 B2=11.63	1967SSg (93384)	3737

C16H14N2O		HL						(1318)		

2-(2-Hydroxynaphthyliminomethyl)pyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	A			K1=6.64 B2=11.76	1981RUa (93410)	3738
Medium: 50% dioxan, 0.1 M NaClO4										

C16H14N2O2		H2L						CAS 36458-47-6	(5158)	

2-(2-Hydroxyphenylaminomethyl)-8-hydroxyquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	50%	U				1972HUa (93424)	3739
K(Cd+HL)=6.70										
K(CdHL+HL)=6.80										
Medium: 50% v/v dioxan, 0.1 M KCl										

C16H14N4O		HL						CAS 98809-14-1	(4081)	

5-Methyl-4-phenylazo-1-phenyl-pyrazol-3(2H)-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.1 B2=12.47	1967SSg (93458)	3740

C16H14N4O2		H2L						(3467)		

5-Hydroxy-4-(2-hydroxyphenylazo)-3-methyl-1-phenylpyrazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=13.76	1952SNa (93468)	3741
K(Cd+H2L=CdL+2H)=-10.0										

C16H14N4O4S		HL						(5183)		

3-Methyl-1-phenyl-4-(2-sulfophenylazo)-5-pyrazolone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.79	1969SSc (93491)	3742

C16H14N4O4S		HL						(5184)		

5-Methyl-1-phenyl-4-(2-sulfophenylazo)-3-pyrazolone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++ gl diox/w 30°C 75% U K1=7.24 1969SSc (93503)3743

C16H14N4O4S HL (5186)

5-Methyl-1-phenyl-4-(3-sulfophenylazo)-3-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=6.37 B2=11.01 1969SSc (93513)3744

C16H14N4O4S HL (5187)

5-Methyl-1-phenyl-4-(4-sulfophenylazo)-3-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=6.21 B2=11.15 1969SSc (93519)3745

C16H14N4S HL CAS 83177-19-9 (674)

3-Methyl-1-phenyl-4-(phenylazo)-pyrazol-5(2H)-thione;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=7.60 B2=16.66 1964STc (93525)3746

C16H14O3 HL CAS 3327-24-0 (956)

3-(4'-Methoxyphenyl)-1-(2'-hydroxyphenyl)-2-propen-1-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 35°C 70% U K1=5.6 B2=10.30 1978SLb (93561)3747

C16H15NO3 HL (901)

L-2-(Benzoylamino)-3-phenylpropanoic acid; C6H5.CH2.CH(NH.CO.C6H5).COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U T H K1=2.68 1980SKa (93618)3748

0.1 KNO3. Temperature range 25-45C. At 35C DH=3.64, DS=63.3.

C16H16N2O2 H2L CAS 94-93-9 (2101)

N,N'-Bis(salicylidene)ethylenediamine;(HO(C6H4)CH:NCH2-)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 0.2M U 1999MTc (93674)3749

K(Cd+HL)=4.34

Medium: 0.2 M KCl in 3:7 v/v H2O/EtOH

C16H16N2O6S2 HL Cephalothin CAS 153-61-7 (9104)

3-(Acetoxylmethyl)-8-oxo-7-(2-thienylacetylamino)-5-thia-1-azabicyclo[4.2.0]oct-2-e

ne-carboxylic

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C K1=6.009 B2=10.48 2001SGe (93709)3750

C16H18O8S4 H4L CAS 51865-21-5 (239)
1,2-Dimethylbenzene-tetrathioethanoic acid; C6H4(CH(S.CH2.COOH)2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U K1=7 1974JBa (93884)3751

C16H19NO HL (6251)
4-(2-Methyl-2'-hydroxy-5'-methylbenzalamino)toluene;
CH3.C6H4.NH.CH(CH3).C6H3(OH).CH3

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 60% U K1=7.82 B2=13.18 1979PJa (93907)3752

C16H19N3O4S HL Ampicillin CAS 69-53-4 (6637)
D-alpha-Aminobenzylpenicillin;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.2M U K1=2.79 1993SHb (93939)3753
B(CdH-1L)=-5.23

C16H20N2 L (5146)
1,6-Bis(2-pyridyl)-hexane; C5H4N.(CH2)6.C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=1.5 1970BAa (93955)3754
K(Cd+HL)=1.2

C16H20N2O8 H4L CAS 6411-02-5 (1919)
1-Phenyl-ethylenediamine-N,N,N',N'-tetraethanoic acid (DL)

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=17.14 1989SLa (94023)3755

Cd++ gl KNO3 20°C 0.10M U K1=19.17 1969NDb (94024)3756

C16H20N2O10 H6L (704)
1,2-Dihydroxy-3,6-di-(methyleneiminodiethanoic acid)-benzene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

C16H24N2O8 H4L CAS 38557-30-1 (1256)
Ethylene-bis(N,N'-(2,6-dicarboxy)piperidine); ((HOOC)2.C5H8N.CH2.)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=13.56 1979PBa (94316)3763

C16H24O6 L Benzo18-crown-6 CAS 14098-24-9 (513)
2,3-Benzo-1,4,7,10,13,16-hexaoxacyclooctadeca-2-ene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ con none 25°C 0.0 C K1=0.11 2000KTa (94378)3764

C16H24O14 H4L CAS 61696-54-6 (6104)
1,4,7,10,13,16-Hexaoxacyclooctadeca-2,3,11,12-tetracarboxylic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M M K1=2.9 1991FGb (94488)3765
B(CdHL)=7.4

Medium: 0.10 M Et4NNO3.

C16H25NO4 L (7444)
1-Aza-4,7,10,13-tetraoxa-1-phenyl-cyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ con mixed 25°C 80% C IH K(Cd(NO3)2+L)=2.00 1999Mfa (94510)3766

Medium: 80% acetonitrile/H2O. Data for 70-95% acetonitrile/H2O, and for 20-35 C. DH(K)=-0.19 kJ mol⁻¹, DS(K)=38.6 J K⁻¹ mol⁻¹.

C16H26N2O10 H2L CAS 93031-54-0 (5831)
1,4,7,10-Tetraoxa-13,16-diazacyclooctadecane-11,18-dione-13,16-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=10.0 2002DCb (94562)3767
Medium: 0.10 M Me4NNO3.

C16H26N2O12 H4L (6659)
1,4,10,13-Tetraoxa-7,16-diaza-2,3,11,12-tetracarboxycyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=10.0 1990AFa (94585)3768
B(CdHL)=17.1

C16H26N2O12 H4L CAS 130190-52-2 (6660)

1,4,10,13-Tetraoxa-7,16-diaza-2,3,7,16-tetracarboxycyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=12.9 1990AFa (94599)3769
B(CdHL)=18.5

C16H26N6O2 L CAS 325125-72-2 (8779)
1,4,7-Tris(cyanomethyl)-1,4,7-triaza-10,13-dioxacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=5.6 2002TBa (94626)3770
Medium: 0.10 M Me4NCl.

C16H28N2O8 H4L (5167)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-di-2-(3-methyl)butanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=12.34 1969NDc (94704)3771

C16H28N2O8 H4L (5168)
1,2-Diaminoethane-N,N'-diethanoic-N,N'-di-2-pentanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=15.34 1969NDc (94729)3772

C16H28N2O8 H4L (5138)
1,2-Diaminooctane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2N.CH2.CH(C6H13)N(CH2COOH)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=18.02 1979MBd (94755)3773

C16H28N2O8 H4L (2850)
1,8-Diaminooctane-N,N,N',N'-tetraethanoic acid; ((HOOCCH2)2N(CH2)4)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U H K1=11.99 1964ANa (94787)3774
K(Cd+HL)=7.02
K(Cd+CdL)=2.4

By calorimetry: DH(K1)=-19.2 kJ mol⁻¹, DS=164 J K⁻¹ mol⁻¹

Cd++ EMF NaNO3 20°C 0.10M U K1=11.99 1957SSa (94788)3775
K(Cd+HL)=7.07

C16H28N4O8 H4L DOTA CAS 60239-18-1 (1017)
1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=21.31 1992CDd (94860)3776
B(CdHL)=25.70
B(CdH2L)=28.73
B(Cd2L)=25.16
B(Cd2HL)=28.44

Medium: 0.10 M Me4NNO3.

Cd++ EMF KCl 20°C 0.10M C K1=19.0 1981SFa (94861)3777
Method: Pt/H2 electrode.

Cd++ gl KCl 20°C 0.10M U K1=19.04 1976SFb (94862)3778

C16H29N3O8 H3L CAS 259211-79-5 (7775)
1,4-Dioxa-7,10,13-triazacyclopentadecane-7,10,13-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=17.83 2000CDd (94959)3779
K(CdL+H)=3.60
K(CdHL+H)=2.0
*K(CdL)=-9.0

Medium: 0.10 M (Me4N)NO3.

C16H29N3O8 H3L (6699)
1,7-Dioxa-4,10,13-triazacyclopentadecane-N,N',N''-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C K1=16.97 1993DSa (94970)3780
K(CdL+H)=3.56
B(Cd2L)=19.03
K(Cd(OH)L+H)=10.95

C16H30N2O8 H2L CAS 72912-01-7 (1568)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-N,N'-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=12.82 1988HSb (95022)3781

Cd++ gl R4N.X 25°C 0.10M U K1=11.07 1983CRb (95023)3782

C16H30N4O8 H4L (3473)
N,N'-Dimethyl-2,2'-ethylenedi-iminobis(ethylenediethanoic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	NaNO3	20°C	0.10M	U			K1=17.77 K(Cd+HL)=11.83	1957SSa (95080)	3783

C16H32N2O5		L						Cryptand 2,2,1 CAS 31364-42-8 (837)		
1,10-Diaza-4,7,13,16,21-pentaoxabicyclo[8,8,5]tricosane (2,2,1);										
Cd++	gl	R4N.X	25°C	0.05M	C			K1=9.3	1997BCc (95167)	3784
Medium: 0.05 M Me4NClO4										
Cd++	gl	alc/w	25°C	100%	C			K1=11.3	1980SAa (95168)	3785
Medium: MeOH, 0.05 M Et4NClO4										
Cd++	gl	R4N.X	25°C	0.10M	C			K1=10.04	1977ASc (95169)	3786

C16H32N4O2		L						(6363)		
1,7,10,16-Tetraaza-4,13-dioxatricyclo[14.2.2.2(7,10)]docosane;										
Cd++	gl	NaNO3	25°C	0.10M	U			K1=<2	1990WHa (95314)	3787

C16H32N4O6		L						CAS 98608-90-3 (1322)		
N,N'-Bis(carbamoylmethyl)-1,7,10,16-tetraoxa-4,13-diazacyclooctadecane;										
Cd++	gl	NaClO4	25°C	0.50M	U			K1=8.60	1981KMb (95332)	3788

C16H32N6		L						CAS 145883-53-0 (8899)		
2,6-Bis[[bis-(2-Aminoethyl)amino]methyl]benzene;										
Cd++	gl	R4N.X	25°C	0.15M	C			K1=9.24 B(CdHL)=17.91 B(CdH2L)=26.57 B(CdH-1L)=-1.97 B(Cd2L)=14.88	2002FGc (95341)	3789
Medium: 0.15 M Me4NCl. B(Cd2H-1L)=4.13, B(Cd2H-2L)=-7.41.										

C16H32N6O		HL						CAS 303962-27-8 (7706)		
2,6-Bis[(bis(2-aminoethyl)amino)methyl]phenol;										
Cd++	gl	R4N.X	25°C	0.15M	C			K1=12.21	2002FGc (95360)	3790

B(CdHL)=20.73
 B(CdH2L)=26.82
 B(CdH-1L)=-2.25
 B(Cd2H-1L)=11.85

Medium: 0.15 M Me4NCl. B(Cd2H-2L)=0.89.

C16H32N6O HL CAS 551959-29-6 (9061)
 2,6-Bis[[bis-(2-aminoethyl)ethylamino]methyl]phenol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=12.27 B(CdHL)=22.54 B(CdH2L)=30.24 B(CdH3L)=36.42 B(CdH-1L)=1.27	2003AFa (95368)	3791

B(Cd2L)=19.28, B(Cd2H-1L)=8.49, K(CdL+OH)=2.83, K(CdL+Cd)=7.01,
 K(Cd2L+OH)=3.04.

C16H32N8O4 L CAS 157599-02-5 (8676)
 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetamide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=>19	1995MHa (95373)	3792

C16H34N2O5 L (6953)
 7,13-Bis(2-methoxyethyl)-1,4,10-trioxa-7,13-diazacyclopentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=5.69	1995LLa (95409)	3793

Medium: Et4NClO4

C16H34N2O5 L DHPK-21 CAS 106288-71-5 (8327)
 N,N'-Bis(2-hydroxypropyl)-1,4,10-trioxa-7,13-diazacyclopentadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=7.13	1986HBe (95426)	3794

C16H34N2O6 L CAS 69930-74-1 (1321)
 N,N'-Bis(2-hydroxyethyl)-1,7,10,16-tetraoxa-4,13-diazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.50M	U			K1=7.96	1981KMb (95442)	3795

C16H34N4O2 L CAS 60598-04-1 (1530)
 4,7-Dimethyl-1,4,7,10-tetraaza-13,18-dioxabicyclo[8,5,5]eicosane;


```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  R4N.X  25°C 0.10M U          K1=12.4      1978LMa (95467)3796
*****
C16H340S          L                      CAS 1986-89-6 (5700)
S,S-Dioctylsulfoxide; C8H17.5O.C8H17
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       ISE non-aq 25°C 100% U          K1=3.80      B2=6.94      1986MMb (95481)3797
                               B3=8.42
                               B4=9.04

```

Medium: acetone, Bu4NC104

```

*****
C16H36N4          L                      CAS 54622-44-5 (147)
5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  alc/w  25°C 75% U          K1=9.8       B2=19.0      1985YSa (95533)3798
Data for meso isomer. For racemic isomer, K1=10.3, B2=20.5
*****
C16H36N402        L                      (7297)
1,11-Bis(2-hydroxyethyl)-4,8-dimethyl-1,4,8,11-tetraazacyclotetradecane;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  R4N.X  25°C 0.10M C          K1=8.27      1996BCc (95547)3799
                               B(CdHL)=14.5
                               B(CdH-1L)=-0.39

```

Medium: Et4NC104

```

*****
C16H36N402        L                      (7296)
1,4-Bis(2-hydroxyethyl)-8,11-dimethyl-1,4,8,11-tetraazacyclotetradecane;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  R4N.X  25°C 0.10M C          K1=9.5       1996BCc (95555)3800
                               B(CdHL)=14.9
                               B(CdH-1L)=0.5

```

Medium: Et4C104

```

*****
C16H36N404        L                      (6703)
1,4,7,10-Tetrakis(2-hydroxyethyl)-1,4,7,10-tetraazacyclododecane;
-----

```

```

-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaNO3  25°C 0.10M C          K1=14.6      1995TDa (95566)3801
                               K(Cd+HL)=5.2

```

B(CdH-1L)=4.9
B(CdH-2L)=-6.6

C16H38N6 L (6697)
1,4,7,13-Tetramethyl-1,4,7,10,13,16-hexaazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C H K1=16.75 1993BBa (95603)3802
DH(K1)=-44.3 kJ mol⁻¹, DS(K1)=171.1 J K⁻¹ mol⁻¹.

C16H38N6O2 L (5365)
7,10,13-Tris(2-aminoethyl)-1,4-dioxo-7,10,13-triazacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=13.02 2000TBa (95629)3803
K(CdL+H)=8.42
K(CdHL+H)=6.35

Medium: 0.1 M Me4NCl.

C16H40N4O12P4 H8L CAS 41007-47-0 (2070)
1,4,7,10-Tetraethylphosphonic acid-1,4,7,10-tetraazacyclododecane;
C8H16N4(CH2CH2.PO(OH)2)4

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 1.00M U K1=20.8 1989PBb (95635)3804
K(Cd+HL)=17.1
K(Cd+H2L)=13.6
K(Cd+H3L)=12.7
K(Cd+H4L)=11.1

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

Cd++ gl mixed 25°C 80% C K1=17.86 1990FGa (95654)3805
B(CdHL)=23.85
B(CdH2L)=29.73
B(CdH3L)=34.85
B(Cd2L)=22.21

Medium: 80% v/v DMSO/H2O, 0.15 M KClO4/NaClO4. B(Cd2HL)=27.38

Cd++ gl NaClO4 25°C 0.15M C K1=14.52 1989BBb (95655)3806

B(CdHL)=21.67
K(CdL+H)=7.15
K(CdHL+H)=5.86
B(Cd2L)=18.21

C16H42N8 L (6457)
2,5,8,11,14,17,20,23-Octaaza-tetracosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl04 25°C 0.15M C H K1=15.81 1991ABa (95675)3807
B(CdHL)=25.303
B(CdH2L)=31.753
B(CdH3L)=36.757
K(Cd+HL)=14.91

DH(K1)=-64.0 kJ mol-1. B(Cd2L)=20.55, K(Cd+H2L)=11.59, K(Cd+H3L)=7.32,
B(Cd2HL)=28.20, K(2Cd+HL)=17.81, K(CdL+Cd)=4.74.

C17H13NO3S H2L CAS 119516-70-0 (6185)
7-Hydroxy-8((2-mercaptophenyl)iminomethyl)-4-methyl-2H-1-benzopyran-2-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 20°C 70% U T H K1=14.25 1988KOb (95746)3808
25 C:K=14.02; 32 C: K=13.66; 45 C:K=13.02. DH=-88.7 kJ mol-1, DS=-29.5

C17H14N2O HL CAS 2046-17-5 (5214)
1-(2-Methylphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=8.35 B2=15.38 1972MCb (95791)3809
Medium: 75% acetone, 0.1 M KNO3

C17H14N2O HL CAS 6756-41-8 (5215)
1-(4-Methylphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=8.64 B2=16.64 1972MCb (95806)3810
Medium: 75% acetone, 0.1 M KNO3

C17H14N2O2 HL CAS 1229-55-6 (5216)
1-(2-Methoxyphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=8.75 B2=16.18 1972MCb (95825)3811
Medium: 75% acetone, 0.1 M KNO3

C17H14N2O2 HL CAS 13441-91-1 (5217)
1-(4-Methoxyphenylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=8.37 B2=15.91 1972MCb (95840)3812
Medium: 75% acetone, 0.1 M KNO3

C17H14N2O5S H3L Calmagite CAS 3147-14-6 (2875)
1-(1-Hydroxy-4-methyl-2-phenylazo)-2-naphthol-4-sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaClO4 25°C 0.30M U K1=12.59 1969KMb (95926)3813

C17H14N4 L CAS 24929-06-4 (2810)
2-(6-Benzoylpyridine)-2'-pyridylhydrazone C6H5.CO.C5H3N.N(NH2)C5H4N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp none 25°C 0.0 U K1=5.6 B2=11.0 1974GSd (95948)3814

C17H14O3 H2L CAS 1467-40-9 (795)
1,5-Diphenylpentane-1,3,5-trione; C6H5.CO.CH2.CO.CH2.CO.C6H5

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.17 B2=16.01 1960KFc (95974)3815

C17H15NO3 HL (6321)
Benzoylacetoneanthranilic acid; C6H5.CO.CH2.C(CH3):N.C6H4.CO0H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=4.75 1975PNa (95984)3816

C17H15N3OS HL (1292)
2-(4',5'-Dimethyl-2-thiazolylazo)-4-phenylphenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 60% U K1=6.50 B2=13.14 1981KTa (95992)3817

C17H16N2O HL CAS 36458-48-7 (5219)
2-(4-Tolylaminomethyl)-8-hydroxyquinoline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=8.5 1972HUb (96022)3818
Medium: 50% v/v dioxan, 0.1 M KCl

C17H16N4O HL (3487)
3-Methyl-1-phenyl-4-(2-tolylazo)-5-pyrazolone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.0 B2=12.7	1959SKb (96050)	3819

C17H16N4O			HL					(4112)		
4-(2'-Tolylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=5.1 B2=10.77	1967SSg (96064)	3820

C17H16N4OS			HL					(4121)		
3-Methyl-4-(2'-methoxyphenylazo)-1-phenylpyrazol-5(2H)-thione;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=8.78 B2=18.68	1964STc (96074)	3821

C17H16N4OS			HL					(3494)		
3-Methyl-4-(2-methylthiophenylazo)-1-phenyl-5-pyrazolone;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.7 B2=14.0	1959SKb (96080)	3822

C17H16N4OS			HL					(4122)		
5-Methyl-4-(2'-methylthiophenylazo)-1-phenylpyrazol-3(2H)-one;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.39 B2=12.56	1967SSg (96086)	3823

C17H16N4O2			HL					CAS 15095-98-5 (4115)		
4-(2'-Methoxyphenylazo)-1-phenyl-5-methylpyrazol-3(2H)-one;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=6.6 B2=12.26	1967SSg (96094)	3824

C17H16N4S2			HL					(4118)		
3-Methyl-4-(2'-methylthiophenylazo)-1-phenylpyrazole-5(2H)-thione;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=8.36 B2=17.30	1964STc (96116)	3825

C17H16O4			H2L					CAS 58134-82-0 (6193)		
Benzoyl-2-hydroxy-4-methoxy-3-methylacetophenone; C6H5.CO.CH2.CO.C6H2(OH)(OCH3)(CH3)										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	mixed	30°C	60%	M	I		K1=5.38 B2=9.99	1991GD b	(96139)3826
Medium: 60%v/v acetone/water; 0.1M NaClO4; data also for 65% and 75%; for 75% v/v dioxane/water and EtOH/water.										

Cd++	gl	mixed	30°C	60%	M	I		K1=5.38 B2=9.99	1991GD c	(96140)3827
Medium: 60%v/v acetone/water; 0.1M NaClO4; data also for 65% and 75%; for 75% v/v dioxane/water and EtOH/water										

Cd++	gl	alc/w	30°C	75%	M	TI		K1=5.06 B2=9.38	1990DG c	(96141)3828
Medium: 75% v/v EtOH/H2O										

 C17H16O6 HL (4111)
 2-Hydroxy-2',4',4-trimethoxydibenzoyl; HO.C6H4.CO.CO.C6H2(OCH3)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	gl	NaClO4	?	0.10M	U			B2=8.80	1963DS a	(96179)3829

C17H17N3O HL (5218)
 alpha-Cyano-4-hydroxyphenacylidene-4-dimethylaminoaniline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	sp	alc/w	30°C	100%	U			K(Cd+HL)=4.61	1970G Se	(96194)3830
------	----	-------	------	------	---	--	--	---------------	-----------------	-------------

Medium: MeOH

 C17H18N2O4 H2L CAS 59400-11-2 (3491)
 N,N' Trimethylenedianthranilic acid; HOOC.C6H4.NH.(CH2)3.NH.C6H4.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	gl	diox/w	35°C	50%	U			K1=5.3	1958Y Sa	(96207)3831

C17H19N3 L Antazoline CAS 91-75-8 (3486)
 2-(N-(Benzyl)-N-phenylaminomethyl)-1,4,5H-1,3-diazole, antistine;
 C3H5N2.CH2.N(C6H5)CH2.C6H5

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++	vlt	KNO3	45°C	0.10M	U	T	H	B2=8.10	1964AR a	(96261)3832
B2=10.08(0 C),8.73(25 C); DH(B2)=-74.0 kJ mol-1, DS=-79.4 J K-1 mol-1										

C17H20N4O L CAS 192878-10-7 (8495)
 Di(2-ethylphenyl)carbazone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
-------	-----	--------	------	------	-----	-------	----	----------	-----------	--------

Cd++ gl diox/w 25°C 50% U K1=4.67 B2= 8.97 1996SKb (96301)3833
Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

C17H20N4O6 HL Riboflavin CAS 83-88-5 (1438)
7,8-Dimethyl-10(D-1'-ribityl)isoalloxazine, Vitamin B2, Vitamin H

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sol mixed 25°C 95% U K1=1.26 1986Lda (96329)3834
Medium: CH3CN, 1 M LiClO4.3H2O

Cd++ gl oth/un 20°C 0.01M U K1=4.7 1953ALa (96330)3835

C17H20N4S L (1803)
Di(2,4-dimethylphenyl)-thiocarbazone; Me2C6H3.NH.NH.CS.N:N.C6H3Me2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp diox/w 25°C 50% U K1=6.19 1974Mfa (96350)3836

C17H21NO L Benadryl CAS 58-73-1 (3492)
N,N-Dimethyl-2-(diphenylmethoxy)ethylamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KNO3 45°C 0.10M U T H B2=6.89 1964ARa (96368)3837
B2=7.86(0 C),7.28(25 C); DH(B2)=-35.9 kJ mol⁻¹, DS=16.7 J K⁻¹ mol⁻¹

C17H24N4O6 H3L (7349)
3,6,9,15-Tetraazabicyclo[9.3.1]pentadeca-1(15),11,13-triene-3,6,9-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=19.53 1997DQa (96447)3838
K(CdL+H)=2.5

Medium:Me4NNO3

Cd++ EMF KCl 20°C 0.10M C K1=13.8 1981Sfa (96448)3839
Method: Pt/H2 electrode.

C17H30N4O8 H4L TRITA CAS 60239-20-5 (1018)
1,4,7,10-Tetraazacyclotridecane-1,4,7,10-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=19.60 1992CDd (96628)3840
B(CdHL)=24.26
B(CdH2L)=27.30
B(Cd2L)=23.27
B(Cd2HL)=27.25

Cd++ EMF KCl 20°C 0.10M C K1=16.5 1981SFa (96629)3841
Method: Pt/H2 electrode.

Cd++ gl KCl 20°C 0.10M U K1=16.54 1976SFb (96630)3842

C17H31N3O8 H3L CAS 282717-18-4 (7776)
1,4-Dioxa-7,10,14-triazacyclohexadecane-7,10,14-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=14.78 2000CDd (96678)3843
K(CdL+H)=3.76
K(CdL+Cd)=2.55

Medium: 0.10 M (Me4N)NO3.

C17H36N4O4 H2L (8282)
2,12-Dimethyl-5,9-di(2-carboxyethyl)-2,5,9,12-tetraazatridecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=6.55 1989HAa (96778)3844
K(CdL+H)=8.6

C17H37N3O4 L CAS 119167-07-6 (6042)
4,7,10-Tri-(2-hydroxypropyl)-1-oxa-4,7,10-triazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=12.77 1988HSb (96784)3845

C17H38N4O3 L (7318)
1,4,8-Tris(2-hydroxyethyl)-11-methyl-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=10.4 1997RWa (96795)3846
B(CdLH)=15.6
B(CdH-1L)=1.5

Medium: Et4NClO4

C17H38N6 L CAS 191231-50-2 (7348)
1,5-Bis(1,4,7-triaza-1-cyclononyl)pentane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=18.2 1997WTa (96808)3847
B(CdHL)=21.7

Medium: NEt4ClO4

C17H39N5O2 L (6706)
10,13,16-Trimethyl-1,4-dioxo-7,10,13,16,19-pentaazacycloheneicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=12.28 1994ABa (96826)3848

C17H41N7 L (7076)
1,4,7-Trimethyl-1,4,7,10,13,16,19-heptaazacyclohenicosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=15.12 1996BBa (96834)3849

B(Cd+L+H2O=Cd(OH)L+H)=3.65

K(CdL+OH)=2.26

C18H12N2 L CAS 6135-89-5 (3498)
5-Phenyl-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE alc/w 25°C 50% U K1=5.12 B2=9.89 1972BBa (96861)3850

Medium: 50% EtOH, 0.1 M KNO3

C18H13NO3 H2L (5238)
N-(2-Hydroxy-1-naphthalidene)anthranilic acid Schiff base;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 50% U K1=6.80 B2=10.06 1971MSh (96892)3851

Medium: 50% dioxan, 0.1 M NaClO4

C18H14N2O4 H2L (3499)
2-(2-Hydroxy-1-naphthylazo)phenoxyethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=11.94 1964PCa (96928)3852

C18H14N4 L BPIB CAS 18653-73-1 (9054)
N,N'-Bis(2-pyridinylmethylene)-1,2-benzenediamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% C M 20030Ha (96960)3853

Method: Distribution from buffered 0.10 M KNO3 into nitrobenzene.

K(Cd+3L(org)+2A=CdL3A2(org))=15.1. HA is picric acid.

C18H15N3O3S HL CAS 61625-17-0 (4139)
Di-4-tolylthiovioluric acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 25% M T H K1=3.09 B2= 5.87 1978MGe (97010)3854
Medium: 25% dioxane/H2O, 0.10 M NaClO4. Data for 40, 45 and 50 C.
DH(K2)=-54.4 kJ mol⁻¹, DS(K2)=-126 J K⁻¹ mol⁻¹.

C18H15N4O3Br HL (5257)
1-Phenyl-3-carbethoxy-5-(2-bromobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.45 B2=10.07 1971SRa (97023)3855

C18H15N4O3Br HL (5258)
1-Phenyl-3-carbethoxy-5-(4-bromobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.06 B2=12.11 1971SRa (97029)3856

C18H15N4O3Cl HL (5255)
1-Phenyl-3-carbethoxy-5-(2-chlorobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.67 B2=10.11 1971SRa (97035)3857

C18H15N4O3Cl HL (5256)
1-Phenyl-3-carbethoxy-5-(4-chlorobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.47 B2=11.81 1971SRa (97041)3858

C18H15N4O3F HL (5261)
1-Phenyl-3-carbethoxy-5-(2-fluorobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.82 B2=10.37 1971SRa (97047)3859

C18H15N4O3F HL (5262)
1-Phenyl-3-carbethoxy-5-(4-fluorobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.42 B2=11.84 1971SRa (97053)3860

C18H15N4O3I HL (5259)

1-Phenyl-3-carbethoxy-5-(2-iodobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.46 B2=10.09 1971SRa (97059)3861

C18H15N4O3I HL (5260)
1-Phenyl-3-carbethoxy-5-(4-iodobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.92 B2=11.93 1971SRa (97065)3862

C18H15N5O5 HL (5239)
1-Phenyl-3-carbethoxy-5-(2-nitrobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.42 B2=9.79 1971SRa (97076)3863

C18H15N5O5 HL (5240)
1-Phenyl-3-carbethoxy-5-(4-nitrobenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.55 B2=11.24 1971SRa (97082)3864

C18H15N6O8AsS H3L Sulfarsazen CAS 5941-02-6 (4140)
4-(4'-Sulfophenylazo)anilinoazo-4-nitrobenzene-2-arsonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp alc/w 20°C 4% U K1=9.8 1965PSe (97088)3865
K(CdL+H)=8.8

Medium: 4% EtOH, 0.08 M KCl

C18H15O3PS HL CAS 16704-71-5 (3365)
3-Diphenylphosphino-benzene sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF NaClO4 25°C 0.10M U K1=0.9 B2=3.38 1958ACb (97104)3866

C18H15P L CAS 603-35-0 (621)
Triphenylphosphine; (C6H5)3P

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ cal non-aq 30°C 100% U M 1976AGa (97127)3867
K(CdI2+L)=2.13

Medium: MeCN

C18H16N4O3 HL (5241)

1-Phenyl-3-carbethoxy-5-benzeneazo-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.49 B2=12.15 1971SRa (97190)3868

C18H16N4O3S HL (3505)

(2-(4,5-Dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azophenylthio)ethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=10.85 1962SCc (97196)3869

C18H16N4O4 H2L (3500)

2-(4,5-Dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-ylazo)phenoxyethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=9.96 1962SCc (97207)3870

C18H18N2O5 L CAS 350014-32-3 (8596)

3,5,6,8,9,11-Hexahydro-2,17:12,14-dietheno-7,4,10,1,13-benzoxadithiadiazacyclopentadecine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% C K1=6.40 B2= 9.40 2002AAa (97220)3871

Medium: CH3CN. Method: fluorescence.

C18H18N2S3 L CAS 183310-21-6 (8595)

2,5,8-Trithia[9],(2,9)-1,10-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% C K1=5.53 2002AAa (97235)3872

K(CdL+Cd)=2.62

Medium: CH3CN. Method: fluorescence.

C18H18N4 L CAS 16858-01-8 (1528)

Tris(2-pyridylmethyl)amine; (C5H4NCH2)3N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE KNO3 20°C 0.10M C H K1=9.9 B2=14.30 1977AHc (97250)3873

K(CdL(OH)+H) > 11

DH1=-58.6 kJ mol⁻¹, DS1=-10.0; DH(K2)=-15.9, DS(K2)=29

C18H18N4O HL (4128)
4-(2'-Ethylphenylazo)-5-methyl-1-phenylpyrazol-3(2H)-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=5.03 B2=10.33	1967SSg (97281)	3874

C18H19N5O HL CAS 58858-65-5 (4130)
4-(2'-Dimethylaminophenylazo)-3-methyl-1-phenylpyrazol-5(2H)-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U			K1=8.95 B2=18.29	1963SYa (97314)	3875

C18H20N2O5 L CAS 244271-40-7 (8949)
2,2'-Oxybis[N-(phenylmethyl)]-ethanethioamide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	non-aq	25°C	100%	C			K1=5.7 B2=10.70	1999RPa (97321)	3876

Medium: acetonitrile.

C18H20N2O6 H4L CAS 10328-28-6 (3501)
Ethylenedinitrilo-N,N'-bis(2'-hydroxyphenyl)-N,N'-diethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	C			K1=16.43	1993MMa (97384)	3877

K(CdL+H)=8.19
K(CdHL+H)=6.30

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=18.4	1992GVa (97385)	3878

K(Cd+HL)=14.6
K(Cd+H2L)=10.6
*K(CdH2L)=-7.6
*K(CdHL)=-9.7

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	oth/un	?	?	U			K1=9.36	1968TRc (97386)	3879

K(Cd+HL)=6.57
K(Cd+H2L)=4.57

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U				1958FFa (97387)	3880

K(CdHL+H)=7.86
K(Cd+H2L)=7.77
K(CdL+H)=8.70

C18H20N4 L CAS 284497-48-9 (9056)
(1R,2R)-N,N'-Bis(2-pyridylmethylidene)-trans-1,2-diiminocyclohexane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	dis	non-aq	25°C	100%	C	M			20010Hb (97458)	3881
Method: distribution from buffered 0.10 M NaCl into nitrobenzene. K(Cd+3L(org)+2A=CdL3A2(org))=15.1. HA is picric acid.										

C18H20N4		L				cis-BPIC		CAS 90605-88-2	(9053)	
(1R,2S)-N,N'-Bis(2-pyridinylmethylene)-1,2-cyclohexanediamine;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	dis	non-aq	25°C	100%	C	M			20030Ha (97465)	3882
Method: Distribution from buffered 0.10 M KNO3 into nitrobenzene. K(Cd+3L(org)+2A=CdL3A2(org))=15.3. HA is picric acid.										

C18H21N5		L						(7482)		
2,5,8-Triaza[9]-[9](2,9)[1,10]-phenanthrolineophane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=17.20	2004BBa (97498)	3883
K(CdL+OH=CdL(OH))=2.72										
Medium: Me4NCl.										

Cd++	gl	R4N.X	25°C	0.10M	C			K1=17.30	2002BBf (97499)	3884
K(CdL+OH)=2.72										
Medium: 0.10 M Me4NCl.										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
C18H22N4O4		H2L						CAS 2444-14-6	(3502)	
N,N'-Bis(2-pyridylmethyl)diaminoethane-N,N'-diethanoic acid;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	oth/un	25°C	0.10M	U			K1=14.6	1965Lca (97536)	3885

C18H22O4		H2L				B(CH2AcAcH)2		(2252)		
1,3-Di(hexa-3,5-dione)-benzene; C6H4((CH2)2.CO.CH2.CO.CH3)2										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	24°C	50%	U			K1=6.8	1979ACa (97557)	3886

C18H24N2O2		H2L						CAS 58015-12-6	(5245)	
N,N'-Bis(2-hydroxy-5-methylphenylmethylene)ethylenediamine;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	oth/un	?	?	U			K1=19.0	1975DTa (97584)	3887
K(Cd+H2L)=8.8										

C18H24N4 L (6382)
5,6:13,14-Dibenzo-1,4,8,11-tetraazacyclotetradecan-5,13-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=7.75 1990AMa (97596)3888
In 95% methanol/H2O, 0.1 M Et4NClO4.

C18H24N10 L CAS 85264-42-2 (7796)
N,N,N',N'-Tetrakis(1'-pyrazolylmethyl)-1,2-diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% U 1997HIb (97632)3889
K(M+3L+2ClO4=ML3.2ClO4)=15.53

Method: extraction form 0.1 M NaClO4 into nitrobenzene.

Reaction is: Cd(aq)+3L(org)+2ClO4(aq)=CdL3.2ClO4(org)

C18H25N3 L CAS 17327-80-9 (7651)
1,9-Diphenyl-2,5,8-triazanonane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=6.31 1998PGc (97637)3890
K(CdL+OH)=3.84

C18H26N6 L (6628)
3,6,14,17,23,24-Hexaazatricyclo[17.3.1.1]tetracos-1(23),8,10,12(24),19,21-hexaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C H K1=17.93 1996DHa (97708)3891
DH(K1)=-58.5 kJ mol⁻¹

Cd++ gl KCl 25°C 0.10M M K1=ca. 20 1996MBb (97709)3892

Cd++ gl KCl 25°C 0.20M C K1=17.2 1992RMa (97710)3893

C18H28N4O4 H2L (7378)
7-Methyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene-3,11-diethan
oic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=14.56 1997CDb (97781)3894
K(CdL+H)=3.84

Medium: NMe4NO3

C18H28N4O10 H3L Ac-DVDA CAS 93620-52-1 (5414)
N-Acetyl-aspartyl-valyl-aspartyl-alanine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.50M U K1=3.46 1984ABc (97790)3895
B(CdHL)=2.70

C18H28O6 H2L O(EAcAcE)20 CAS 73199-63-0 (2251)
1,11-Dioxacycloeicosane-5,7,15,17-tetraone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 24°C 50% U K1=7.4 1979ACa (97827)3896

C18H28O10 H2L (OEOAcAcOE)2 CAS 62950-36-1 (2254)
1,4,10,13,16,22-Hexaoxacyclotetracosane-6,8,18,20-tetraone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 24°C 50% U K1=7.9 1979ACa (97865)3897

C18H30N2O11 H2L CAS 93049-99-1 (5832)
1,4,7,10,13-Pentaoxa-16,19-diazacycloeicosane-14,21-dione-16,19-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=9.71 2002DCb (97903)3898

Medium: 0.10 M Me4NNO3.

C18H30N2O12 H4L (7125)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-bis(malonic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.15M U K1=10.3 1995BGa (97924)3899

C18H30N4O12 H6L TTHA CAS 869-52-3 (694)
Triethylenetetraaminehexaethanoic acid;((HOOC.CH2)2N.CH2.CH2.N(CH2.COOH).CH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KCl 30°C 0.30M U K(Cd+HL)=16.76 1988HPa (97991)3900

Cd++ vlt oth/un 25°C ? U M 1981MNa (97992)3901
K(Cd+CoHL=CdLCo+H)=4.32
K(CdLNi+H=CdHL+Ni)=9.2

Cd++ gl KNO3 25°C 0.10M U K1=18.7 1971YMb (97993)3902

K(CdL+H)=8.60
K(CdHL+H)=3.08

K(CdH2L+H)=2.67

B(Cd2L)=27.1

Cd++ ISE KNO3 25°C 0.10M U K1=18.65 1970HAa (97994)3903
By glass electrode: K(CdL+H)=8.32, K(CdHL+H)=3.2, K(CdL+Cd)=8.2

Cd++ gl KNO3 25°C 0.10M U K1=17.6 1969LUa (97995)3904
K(Cd+HL)=15.8
B(Cd2L)=25.3

Cd++ gl KNO3 25°C 0.10M U K1=19.8 1968SCa (97996)3905

Cd++ vlt NaClO4 25°C 0.10M U 1965CKa (97997)3906
K(Cd+H2L)=10.36
K(2Cd+HL)=0.24

C18H32N4O8 H4L TETA CAS 60239-22-7 (1019)
1,4,8,11-Tetraazacyclotetradecane-1,4,8,11-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=18.02 1992CDd (98173)3907
B(CdHL)=22.06
B(CdH2L)=24.5
B(Cd2L)=20.95
B(Cd2HL)=24.81

Cd++ EMF KCl 20°C 0.10M C K1=15.5 1981SFa (98174)3908
Method: Pt/H2 electrode.

Cd++ gl KCl 20°C 0.10M U K1=15.53 1976SFb (98175)3909

C18H32N4O8 H4L (8192)
3-Methyl-1,5,8,11-tetraazacyclotridecane-1,5,8,11-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF KCl 20°C 0.10M C K1=17.8 1981SFa (98242)3910
Method: Pt/H2 electrode. For the 3-ethyl- derivative, K1=13.0;
for the 3,3-dimethyl- derivative, K1=6.5

C18H33N3O9 H3L (6700)
1,7,13-Trioxa-4,10,16-triazacyclooctadecane-N,N',N''-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C K1=12.42 1993DSa (98294)3911
K(CdL+H)=6.06
B(Cd2L)=14.83
K(Cd2L+H)=5.81

$$K(\text{Cd}(\text{OH})\text{L}+\text{H})=10.87$$

C18H34N2O2 L (7388)
N,N'-Bis(2-hydroxycyclohexyl)-trans-cyclohexane-1,2-diamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=4.08 1997SHa (98321)3912

C18H34N2O8 H2L CAS 68670-15-5 (5851)
1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-di-(3-propanoic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.15M U K1=10.08 1995BGa (98331)3913

Cd++ gl R4N.X 25°C 0.10M C K1=6.11 1988CCc (98332)3914

C18H36N2O6 L Cryptand 2,2,2 CAS 23978-09-8 (514)
1,10-Diaza-4,7,13,16,21,24-hexaoxabicyclo[8.8.8]hexacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.05M C K1=7.4 1997BCc (98499)3915
Medium: 0.05 M Me4NClO4

Cd++ vlt R4N.X 22°C 0.03M C I K1=8.19 1991PSa (98500)3916
Medium: 0.025 M Et4NClO4. Method: differential pulse polarography. Data
for 15-75% w/w CH3CN/H2O, 0.025 M Et4NClO4.

Cd++ gl alc/w 25°C 100% C K1=10.41 1980SAa (98501)3917
Medium: MeOH, 0.05 M Et4NClO4

Cd++ EMF R4N.X 25°C 0.05M C I K1=7.1 1979BLb (98502)3918
Method: Ag electrode; competition with Ag+. Medium: 0.05 M Me4NClO4.
Also K1=3.6 (DMSO), 19.8 (CH3CN).

Cd++ gl R4N.X 25°C 0.10M C K1=7.10 1977ASc (98503)3919

Cd++ gl R4N.X 25°C 0.10M C H K1=6.8 1975ANa (98504)3920
Medium: Me4NNO3. DH(K1)=2.1 kJ mol⁻¹, DS=138

Cd++ gl R4N.X 25°C 0.05M C K1=6.8 1975LSc (98505)3921

C18H38N2O6 L CAS 72911-99-0 (649)
4,13-Bis(2-methoxyethyl)-1,7,10,16-tetraoxo-4,13-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=4.72 1995LLa (98832)3922

Medium: Et4NC104

Cd++ gl NaNO3 25°C 0.10M C K1=3.93 1991DHa (98833)3923

Cd++ gl NaClO4 25°C 0.50M U K1=5.01 1981KMb (98834)3924

C18H38N2O6 L (5802)
7,16-Di(2-hydroxypropyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=7.64 1986HBc (98850)3925

C18H38N4O3 L CAS 156022-16-1 (6978)
16,21-Dimethyl-4,7,10-trioxa-1,13,16,21-tetraazabicyclo[11.5.5]tricosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 45°C 0.15M C K1=11.33 1994BBb (98860)3926
K(CdL+OH)=4.1
K(CdL(OH)+OH)=3.3

Medium: 0.15 M NMe4ClO4

C18H40N4O4 L CAS 89066-60-2 (867)
N,N',N'',N'''-Tetrakis(2-hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M U K1=9.38 1984MMc (98918)3927
K(CdL+OH)=4.28

C18H42N6 L 24-Ane-N6 CAS 42128-17-6 (5989)
1,5,9,13,17,21-Hexaazacyclotetracosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 1.0M C K1=8.27 1996KYa (98935)3928

C18H42N8 L (7087)
1,4,7,10,13,16,21,24-Octaaza-bicyclo[8.8.8]hexacosane; N(CH2CH2NCH2CH2NCH2CH2)3N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=18.3 1996TBa (98951)3929
K(CdL+H)=4.7

C18H44N8 L (6737)
N,N',N'',N'''-Tetrakis(2-aminoethyl)-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

K(CdH2L+H2L)=4.43

K(Cd+2H2L=Cd(H2L)(HL)+H)=2.71

K(Cd+2HL)=13.64, K(Cd+2HL=Cd(HL)L+H)=3.24, K(2Cd+HL=Cd2L+H)=4.95,

K(Cd2L+OH)=5.80, K(Cd2L(OH)+OH)=4.61.

C19H17N3O4S2 HL Cephaloridine CAS 50-59-9 (8404)
7-[a-(2-Thienyl)acetamido]-3-(1-pyridylmethyl)-3-cephem-4-carboxylic acid betaine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U T M K1=4.92 B2= 8.40 2000CCe (99189)3935
K(CdL+ala)=4.58

Also data at 35 C.

C19H18N2O4S HL (7397)
2-Methyl-8-(toluene-4-sulfonamide)-6-quinolyethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 50% C K1=8.44 B2=15.38 1997HRa (99208)3936
Medium: 50% v/v EtOH/H2O; 0.1 M NaClO4.

C19H18N4O3 HL (5276)
1-Phenyl-3-carbethoxy-5-(2-methylbenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.68 B2=10.47 1971SRa (99214)3937

C19H18N4O3 HL (5277)
1-Phenyl-3-carbethoxy-5-(4-methylbenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.48 B2=12.40 1971SRa (99220)3938

C19H18N4O3S H2L (4145)
4-(2'-(2''-Carboxyethylthio)Phe-azo)-3-Me-1-Phe-pyrazole-5(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=9.59 1965SMh (99226)3939

C19H18N4O4 HL (5278)
1-Phenyl-3-carbethoxy-5-(4-methoxybenzeneazo)-4-pyrazolone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=5.73 B2=12.18 1971SRa (99239)3940

C19H18N4O4 H2L (4142)
4-(2'-(2''-Carboxyethoxy)phenylazo)-3-methyl-1-Phe-pyrazol-5(2H)-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.8 1965SMh (99246)3941

C19H19N3O2 L (6370)
2,6-Bis(2'-aminophenoxymethyl)pyridine; H2N.C6H4.O.CH2.C5H3N.CH2.O.C6H4.NH2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=<3 1990ADa (99264)3942
In 95% ethanol/H2O, 0.1 M Et4NClO4.

C19H19N7O6 H3L Folic acid CAS 75708-92-8 (194)
Pteroylglutamic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaClO4 25°C 0.15M C K1=5.56 B2= 9.87 1989EGa (99279)3943
B3=16.63

Method: differential pulse polarography. Medium pH = 7.4.

Cd++ gl oth/un 20°C 0.01M U K1=8.26 B2=6.7 1953ALa (99280)3944

C19H20N2S2 L CAS 403819-60-3 (8597)
3,6,7,8,9,11-Hexahydro-2,17:12,14-Dietheno-5H-4,10,1,13-benzodithiadiazacyclopentadecine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% C K1=5.86 B2= 8.77 2002AAa (99301)3945
Medium: CH3CN. Method: fluorescence.

C19H24N2O2 L (6391)
6,7:13,14-Dibenzo-10-methyl-1,5-dioxa-8,12-diazacyclotetradecan-6,13-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=<3.0 1990AMa (99367)3946
In 95% methanol/H2O, 0.1 M Et4NClO4.

C19H26N4 L (6383)
5,6:14,15-Dibenzo-1,4,8,12-tetraazacyclopentadecan-5,14-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=5.4 1990AMa (99388)3947
In 95% methanol/H2O, 0.1 M Et4NClO4.

 C19H39N3O5 L CAS 60598-00-7 (1537)
 4-Methyl-1,4,10-triaza-7,13,16,21,24-pentaoxa-bicyclo[8,8,8]hexacosane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl R4N.X 25°C 0.10M U K1=9.7 1978LMa (99486)3948
 K(Cd+HL)=3.8

 C19H41N3O5 L (5876)
 7,10,13-Tris(2-hydroxypropyl)-1,4-dioxa-7,10,13-triazacyclopentadecane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaNO3 25°C 0.10M C K1=9.15 1989HBa (99507)3949

 C19H42N4O4 L THEC-15 (6950)
 N,N',N'',N'''-Tetrakis(2-hydroxyethyl)-1,4,8,12-tetraazacyclopentadecane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaNO3 25°C 0.10M C K1=4.4 1995TDa (99513)3950
 K(Cd+HL)=7.5
 B(CdH-1L)=-5.0

 C19H43N5O3 L (6707)
 13,16,19-Trimethyl-1,4,7-trioxa-10,13,16,19,22-pentaazacyclotetracosane;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaClO4 25°C 0.15M C K1=11.17 1994ABa (99524)3951
 K(CdL+H)=5.56

 C20H13N3O7S H3L Eriochrome Bl T CAS 1787-61-7 (997)
 1-(1-Hydroxy-2-naphthylazo)-6-nitro-2-naphthol-4-sulfonic acid;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ sp NaClO4 20°C 0.30M U K1=12.74 1968KSc (99555)3952

 C20H13N7 HL CAS 30842-84-3 (5288)
 1,5-Bis(8-quinolyl)-3-cyanoformazan;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ sp NaClO4 25°C 0.10M U B(CdHL2)=33.2 1971BSf (99588)3953

 C20H14N2O HL (5291)
 1-(1-Naphthylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=7.02 B2=13.35 1972MCb (99595)3954
Medium: 75% acetone, 0.1 M KNO3

C20H14N2O HL CAS 2653-64-7 (5292)
1-(2-Naphthylazo)-2-hydroxynaphthalene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 75% U K1=7.80 B2=14.65 1972MCb (99610)3955
Medium: 75% acetone, 0.1 M KNO3

C20H14N2O2 H2L CAS 13082-06-9 (3506)
1,1'-Azo-(2-hydroxynaphthalene);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U 1957SFb (99625)3956
K(Cd+H2L=CdL+2H)=-11.6

C20H15NO3 H2L (2120)
2-(alpha-Phenyl-2-hydroxybenzylideneimino)benzoic acid; HO.C6H4.C(C6H5):N.C6H4.COOH

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M U TIH K1=8.10 1986SGb (99747)3957
35 C: K1= 8.53; 45 C:K1= 8.73. DH(K1)=-38.1 kJ mol-1, DS=58 J K-1 mol-1

C20H16N2O2 H2L CAS 3946-91-6 (2733)
N,N'-Bis(2'-hydroxybenzylidene)-1,2-diaminobenzene; (HOC6H4CH:N)2.C6H4

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 80% C K1=7.24 1997HMc (99770)3958
B(CdHL)=15.77
Medium: 80% w/w DMSO/H2O, 0.5 M NaClO4.

C20H16N4O5S H2L EriochromeRed B CAS 14954-75-7 (3510)
4-(4,5-Dihydro-3-Me-5-oxo-1-Phe-1H-pyrazol-4-ylazo)-3-naphthol-1-sulfonic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U 1957SFb (99792)3959
K(Cd+H2L=CdL+2H)=-9.8

C20H17NO HL (6215)
N-(2-Hydroxy-5-phenylbenzylidene)-2-methylaniline; C6H5.C6H3(OH).CH:N.C6H4.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U		K1=4.349 B2=7.95	1986MBd	(99808)3960

C20H18N4O2			HL				(5917)		
Pyruvic monohydrazone-3-hydrazino-4-benzyl-6-phenylpyridazine;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	75%	U		B2=11.66	1985RSb	(99827)3961
							K(Cd+HL)=3.60		
							K(Cd+2HL)=7.14		
							K(Cd+L+HL)=9.81		

C20H19N3O3S			HL				CAS 380496-11-7	(9099)	
1,3-Di(2-ethylphenyl)-4,5,6-pyrimidinetrione-2-thioxo-5-oxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	75%	U T H		K1=3.41	2001SSd	(99864)3962
Medium: 75% v/v dioxan/H2O, 0.10 NaClO4. Data for 30 and 35 C.									
DH(K1)=-0.37 kJ mol-1.									

C20H19N3O3S			HL				CAS 380496-12-8	(9100)	
1,3-Di(3-ethylphenyl)-4,5,6-pyrimidinetrione-2-thio-5-oxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	75%	U T H		K1=3.43 B2= 5.67	2001SSd	(99871)3963
Medium: 75% v/v dioxan/H2O, 0.10 NaClO4. Data for 30 and 35 C.									
DH(B2)=-0.38 kJ mol-1.									

C20H19N3O3S			HL				CAS 380496-13-9	(9101)	
1,3-Di(4-ethylphenyl)-4,5,6-pyrimidinetrione-2-thio-5-oxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	diox/w	25°C	75%	U T H		K1=3.77	2001SSd	(99881)3964
Medium: 75% v/v dioxan/H2O, 0.10 NaClO4. Data for 30 and 35 C.									
DH(K1)=-0.80 kJ mol-1.									

C20H24N2O2S3			L				CAS 219610-94-3	(8940)	
4'-(2"-Pyridinecarboxaldimino)benzo-7,10,13-trithia-15-crown-5;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	non-aq	25°C	100%	C	M		2002YPc	(99945)3965
							K(ZnA2L+Cd)=3.56		
Medium: MeCN, 0.10 M n-Bu4NPF6. A is p-thiocresol. By emission spectroscopy, K(ZnA2L+Cd)=3.49.									

 C20H24N2O4S L CAS 219610-86-3 (8938)
 4'-(2"-Pyridinecarboxaldimino)benzo-10-thia-15-crown-5;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ sp non-aq 25°C 100% C M 2002YPc (99949)3966
 K(ZnA2L+Cd)=3.06

Medium: MeCN, 0.10 M n-Bu4NPF6. A is p-thiocresol. By emission spectroscopy, K(ZnA2L+Cd)=2.99; by 1H nmr, K(ZnA2L+Cd)=3.14.

 C20H24N2O4Se L CAS 219610-89-6 (8939)
 4'-(2"-Pyridinecarboxaldimino)benzo-10-selena-15-crown-5;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ sp non-aq 25°C 100% C M 2002YPc (99951)3967
 K(ZnA2L+Cd)=3.80

Medium: MeCN, 0.10 M n-Bu4NPF6. A is p-thiocresol. By emission spectroscopy, K(ZnA2L+Cd)=3.58; by 1H nmr, K(ZnA2L+Cd)=3.62.

 C20H24N2O6 H4L HBED CAS 3625-89-6 (2208)
 N,N'-Di-(2-hydroxybenzyl)-diaminoethane-N,N'-diethanoic acid;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl KNO3 25°C 0.10M U K1=17.52 1967LMd (99983)3968
 K(Cd+HL)=13.17
 K(Cd+H2L)=8.85

 C20H24N6O6 H2L EDTAPA CAS 41314-78-7 (7801)
 Ethylenedinitrilo-N,N'-diethanoic-N,N'-bis(2-pyridylacetamido) acid;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl NaClO4 25°C 0.10M M H K1=8.16 1998DTa (100042)3969

Medium: 0.10 M KClO4. By calorimetry, DH(K1)=-37.38 kJ mol⁻¹, DS(K1)=30.9 J K⁻¹ mol⁻¹.

 C20H26N2O3 L OdienNtnH4 CAS 85735-84-8 (5943)
 1,15-Diaza-3,4:12,13-dibenzo-5,8,11-trioxacycloheptadecan-3,12-diene;

 Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

 Cd++ gl alc/w 25°C 95% C K1=5.2 1998DLA (100317)3970

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

 C20H26N6 L CAS 221350-58-9 (2790)
 2,5,8,11-Tetraaza[12]-[12](2,9)[1,10]-phenanthroline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C		K1=16.91 K(CdL+H)=4.00	2002BBf (100336)	3971

Medium: 0.10 M Me4NCl.

C20H26N6	L						CAS 303955-27-3	(9162)
----------	---	--	--	--	--	--	-----------------	--------

5-Aminoethyl-2,5,8-triaza-[9]-10,23-phenanthrolineophane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	U		K1=18.83 K(CdL+H)=6.99	2004BBa (100341)	3972

Medium: Me4NCl.

C20H27N3O2	L	OenNdienH4					CAS 77016-63-8	(5938)
------------	---	------------	--	--	--	--	----------------	--------

1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dioxacycloheptadecan-3,9-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	C		K1=8.7	1998DLa (100368)	3973

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

Cd++	gl	alc/w	25°C	95%	U		K1=8.66 K(Cd+HL)=4.17	1988ADb (100369)	3974
------	----	-------	------	-----	---	--	--------------------------	------------------	------

Medium: 0.1 Et4NClO4 in 95% MeOH

C20H27N3O2	L						CAS 168279-86-5	(7556)
------------	---	--	--	--	--	--	-----------------	--------

1,8,15-Triaza-3,4:12,13-dibenzo-5,11-dioxacycloheptadecan-3,12-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	C		K1=10.2	1998DLa (100378)	3975

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C20H28N4	L						(6384)
----------	---	--	--	--	--	--	--------

5,6:15,16-Dibenzo-1,4,8,13-tetraazacyclohexadecan-5,15-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U		K1=6.2	1990AMa (100391)	3976

In 95% methanol/H2O, 0.1 M Et4NClO4.

C20H30N4	L						CAS 140840-03-5	(7652)
----------	---	--	--	--	--	--	-----------------	--------

1,12-Diphenyl-2,5,8,11-tetraazadodecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.15M	C		K1=9.75 K(CdL+H)=5.6	1998PGc (100419)	3977

K(CdL+OH)=3.70

C20H30N6 L (7250)
3,7,15,19,25,26-Hexaazatricyclo[19.3.1.1]hexacos-1(25),9,11,13(26),21,23-hexaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C H K1=14.18 1996DHa (100431)3978
DH(K1)=-38.6 kJ mol⁻¹

C20H31N7 L CAS 350501-24-5 (7976)
3,8,11,14,17,20,25-Heptaazatricyclo[20.3.1.12,6]heptacos-1(26),2,4,6(27),22,24-hexaene

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U H K1=7.7 2001ABa (100446)3979
K(CdL+H)=8.38
K(CdHL+H)=6.77
K(CdH2L+H)=5.30
K(CdH3L+H)=4.09

Medium: 0.10 M NMe4Cl. By calorimetry: DH(K1)=-19.2 kJ mol⁻¹, DH(CdHL)=-27.8, DH(CdH2L)=-21.6, DH(CdH3L)=-26.7, DH(CdH4L)=-29.7.

C20H31N7 L CAS 350501-28-9 (7974)
8,11,14,17,20,26,27-Heptaazatricyclo[20.3.1.12,6]heptacos-1(26),2,4,6(27),22,24-hexaene

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=15.70 2002BBf (100450)3980
K(CdL+H)=5.22
K(CdHL+H)=4.90
K(CdH2L+H)=3.74

Medium: 0.10 M Me4NCl.

Cd++ gl R4N.X 25°C 0.10M U H K1=15.69 2001ABa (100451)3981
K(CdL+H)=5.22
K(CdHL+H)=4.90
K(CdH2L+H)=3.74

Medium: 0.10 M NMe4Cl. By calorimetry: DH(K1)=-28.0 kJ mol⁻¹, DH(CdHL)=-34.0, DH(CdH2L)=-33.7, DH(CdH3L)=-28.4.

C20H32N6O12S2 H4L GSSG CAS 27025-41-8 (1241)
Glutathione oxidized; (HOOC.CH(NH2)C2H4.CO.NH.CH(CO.NH.CH2.COOH)CH2.S)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M M K1=6.45 1990SHa (100484)3982

C20H34N4Fe L (7287)
1,1-Bis(5-methyl-2,5-diazaheptyl)ferrocene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=4.39 B(CdHL)=13.59 B(CdH2L)=21.14 B(Cd2L)=7.72 B(Cd2H-2L)=-11.27	1996TBb (100509)	3983

C20H36N4O8 H4L (8193)
3,3-Dimethyl-1,5,8,12-tetraazacyclotetradecane-1,5,8,12-tetraethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	KCl	20°C	0.10M	C			K1=6.0	1981SFa (100572)	3984

Method: Pt/H2 electrode.

C20H36O6 L DiCy-18-crown-6 CAS 16069-36-6 (1653)
2,3:11,12-Dicyclohexyl-1,4,7,10,13,16-hexaoxacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	con	alc/w	25°C	40%	C			K1=3.37	2002ISa (100616)	3985

Medium: 40% EtOH/H2O.

Cd++	nmr	non-aq	27°C	100%	C	I		K1=3.85	2001KZa (100617)	3986
------	-----	--------	------	------	---	---	--	---------	------------------	------

Method: 7Li nmr; competitive binding study. Medium: nitromethane.
In acetonitrile, K1=2.96

C20H39N5O2 HL CAS 333309-52-7 (8662)
16-Aminodocosahydro-16-methyl-dibenzo[b,i][1,4,8,11]tetraazacyclotetradecine-7-carb
oxylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.5M	U			K1=11.2 K(CdL+H)=5.85 K(CdL=CdH-1L+H)=-10.75	2002WHa (100766)	3987

Data for the trans isomer. For the cis-isomer K1=12.3, K(CdL+H)=6.05
K(CdL=CdH-1L+H)=-10.45

C20H42N2O6 L (6402)
7,16-Bis(1,1-dimethyl-2-hydroxyethyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C			K1=6.12	1991DHa (100860)	3988

C20H42N2O8 L CAS 106113-01-3 (5879)
7,16-Bis(((2-hydroxyethyl)oxy)ethyl)-1,4,10,13-Tetraoxa-7,16-Diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=3.30 1989HBa (100865)3989

C20H42N4O4 L CAS 39678-14-3 (1543)
4,7-Dimethyl-1,4,7,10-tetraaza-13,16,21,24-tetraoxa-bicyclohexacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 45°C 0.15M C K1=12.04 1994BBb (100881)3990
K(CdL+OH)=3.1
K(CdL(OH)+OH)=3.4

Medium: 0.15 M NMe4ClO4

Cd++ gl R4N.X 25°C 0.10M U K1=12.0 1978LMa (100882)3991
K(Cd+HL)=5.8

C20H44N4O3 L CAS 120981-97-7 (8970)
4,5,11,17-Tetraethyl-1,8,14-trioxa-4,5,11,17-tetraazacyclononadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ cal non-aq 25°C 100% C K1=<0.5 1990DJb (100916)3992
Medium: DMSO.

C20H44N4O4 L CAS 102202-74-4 (6041)
1,4,7,10-Tetra-(2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaNO3 25°C 0.50M U K1=17.46 1988HSb (100923)3993

C20H44N4O4 L CAS 252191-56-3 (7609)
1,4,7,10-Tetrakis(3-hydroxypropyl)-1,4,7,10-tetraazacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=7.4 1999DWa (100952)3994
K(CdL=CdH-1L+H)=-9.7

Medium: 0.1 M NEt4ClO4

C20H44N4O6 L CAS 118018-01-2 (5878)
4,7,13,16-Tetrakis(2-hydroxyethyl)-1,10-dioxa-4,7,13,16-tetraazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=8.84 1989HBa (100958)3995

C20H46N6O4 L (355)
1,4,7,16,19,22-Hexaaza-10,13,25,28-tetraoxacyclotriacontane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=8.67 B(CdHL)=16.97 B(CdH2L)=24.31 B(CdH3L)=30.40 B(Cd2L)=14.23	1996BBh (100982)	3996

K(Cd2L+OH)=4.2

C20H48N4O8P4 H4L (6569)
1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetrakis(methyleneethylphosphinic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=16.65	1991LSc (100990)	3997

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
Cd++	gl	NaClO4	25°C	0.15M	C			B(Cd2L)=23.21 B(Cd2H2L)=35.07 B(Cd2H3L)=39.94 K(Cd2H2L+H)=4.88	1989BBb (101000)	3998

C20H52N10 L (6459)
2,5,8,11,14,17,20,23,26,29-Decaaza-triacontane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.15M	C	H		K1=15.23 B(CdHL)=24.91 B(CdH2L)=33.52 B(CdH3L)=40.112 B(Cd+H4L)=45.053	1991ABa (101008)	3999

DH(K1)=-58.6 kJ mol⁻¹. K(Cd+HL)=14.64, K(Cd+H2L)=13.52, K(Cd+H3L)=10.54,
K(Cd+H4L)=7.06, B(Cd2L)=23.48, B(Cd2HL)=30.38.

C21H14N4O2 HL CAS 194480-84-7 (8524)
2-Hydroxy-1-naphthalenecarboxaldehyde benzofuro[2,3-d]pyrimidin-4-ylhydrazone;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	10%	U			K1=7.614	1997HVa (101033)	4000

Medium: 10% v/v dioxane/H₂O, 0.10 M NaClO₄.

C21H16N4S L (1804)

Dinaphthylthiocarbazone; C₁₀H₇.NH.NH.CS.N:N.C₁₀H₇

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp diox/w 25°C 50% U K1=5.76 1974MFa (101068)4001

C21H18N2O2 H2L (7319)

N,N'-3,4-Toluenebis(salicylideneimine); CH₃.C₆H₃(N:CH.C₆H₄O)₂

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 80% C K1=7.90 1997HMa (101113)4002
B(CdHL)=16.41

In 80 % (wt/wt) DMSO-H₂O, I= 0.5 M NaClO₄

C21H19NO HL (6216)

N-(2-Hydroxy-5-phenylbenzylidene)-2,6-dimethylaniline;

C₆H₅.C₆H₃(OH).CH:N.C₆H₃(CH₃)₂

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=4.614 1986MBd (101135)4003

C21H20N4O HL (1408)

2,3-Butanedione-3-(4-benzyl-6-phenyl)-pyridaziny l hydrazone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=9.41 B2=17.78 1983RRa (101152)4004

C21H21N2O8Cl H2L Demeclocycline CAS 64-73-3 (5759)

7-Chloro-6-demethyltetracycline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaClO₄ 20°C 0.10M C M K1=3.00 B2= 5.30 1983SAb (101177)4005
B(PbAL)=8.13
B(PbA2L)=10.57
B(PbAL2)=8.83

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ vlt NaClO₄ 30°C 0.10M C K1=2.99 B2= 5.33 1980SGi (101178)4006
Method: polarography.

Cd++ gl KNO₃ 25°C 0.10M C K1=4.48 1979DDd (101179)4007
K(Cd+HL)=3.07

Also data for other tetracycline analogues.

C21H23N06 HL Colchicine (7054)
Colchicine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 20°C 75% U I K1=6.62 B2=13.00 1994SHc (101219)4008

C21H24N4 L (931)
Tris((6-methyl-2-pyridyl)methyl)-amine; (CH3.C5H3N.CH2)3N

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M C H K1=6.77 1977AHc (101243)4009
Calorimetry: DH1=-16.2 kJ mol⁻¹, DS1=74.5

C21H28N202 L CAS 218931-84-1 (7840)
1,12-Diaza-3,4:9,10-dibenzo-5,8-dioxa-2,11-dimethylcyclopentadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=<4 1998ABf (101306)4010
Medium: 95% MeOH/H2O, 0.1 M Et4NClO4.

C21H28N202 L (2318)
5,9-Diaza-2,3:11,12-dibenzo-1,13-dioxa-cycloheptadecan-2,11-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF alc/w 25°C 95% U K1=<4 1994ACb (101315)4011
Medium: 95% MeOH/H2O, 0.1 M NEt4ClO4. Also data for analogous ligands with
smaller rings.

C21H28N203 L OdienNtnH4 CAS 85735-85-9 (5944)
1,15-Diaza-3,4:12,13-dibenzo-5,8,11-trioxacyclooctadecan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=4.1 1998DLa (101324)4012
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C21H28N203 L (6971)
2,3:10,11-Dibenzo-5,8-diaza-5-(2-hydroxyethyl)-1,12-dioxacyclopentadeca-2,10-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF alc/w 25°C 95% U K1=<4.5 1994ACb (101331)4013
Medium: 95% MeOH/H2O, 0.1 M NEt4ClO4. L is 2,3:10,11-dibenzo-5,8-diaza-5-
(2-hydroxyethyl)-1,12-dioxacyclopentadeca-2,10-diene.

C21H29N3O2 L OenNentnH4 CAS 77016-65-0 (5941)
1,12,16-Triaza-3,4:9,10-dibenzo-5,8-dioxacyclooctadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=7.9 1998DLA (101349)4014
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

Cd++ gl alc/w 25°C 95% U K1=7.93 1988ADb (101350)4015
K(Cd+HL)=3.61
Medium: 0.1 Et4NClO4 in 95% MeOH

C21H31N5O8 H4L (8194)
3,6,9,12,18-Pentaazabicyclo[12.3.1]heptadeca-1(18),14,16-triene-3,6,9,12-tetraethan
oic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF KCl 20°C 0.10M C K1=9.1 1981SFa (101413)4016
Method: Pt/H2 electrode.

C22H17N7 HL (5316)
1,5-Bis(2-methyl-8-quinolyl)-3-cyanoformazan;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaClO4 25°C 0.10M U B(CdHL2)=32.5 1971BSf (101588)4017

C22H22N4O2 H2L CAS 75651-32-0 (5318)
N,N'-Bis(8-hydroxy-2-quinolylmethyl)ethylenediamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 25°C 50% U K1=22.0 1972HUa (101730)4018
K(CdHL+H)=3.91
K(CdL+H)=7.79
K(Cd+H2L)=10.62
K(Cd+HL)=17.4

Medium: 50% v/v dioxan, 0.1 M KCl

C22H23N2O8Cl H2L Aureomycin CAS 56235-18-8 (3515)
Chlorotetracycline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaClO4 20°C 0.10M C M K1=3.10 B2= 5.49 1983SAb (101754)4019
B(PbAL)=8.22
B(PbA2L)=10.64
B(PbAL2)=8.98

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ vlt NaClO4 30°C 0.10M C K1=3.08 B2= 5.49 1980SGi (101755)4020

Method: polarography.

C22H24N2O8 H2L Tetracycline CAS 60-54-8 (2201)

Tetracycline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C 1996SJa (101796)4021

B(CdHL)=3.48

B(CdH2L)=5.40

Cd++ gl NaNO3 25°C 0.10M C K1=7.4 1992GAa (101797)4022

Cd++ vlt NaClO4 20°C 0.10M C M K1=3.26 B2= 5.77 1983SAb (101798)4023

B(PbAL)=8.37

B(PbA2L)=10.76

B(PbAL2)=9.24

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++ vlt NaClO4 30°C 0.10M C K1=3.20 B2= 5.72 1980SGi (101799)4024

Method: polarography.

C22H24N2O8 H4L CAS 91044-24-5 (1920)

meso-1,2-Diphenyl-1,2-diaminoethane-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=12.93 1989SLa (101836)4025

C22H24N2O8 H4L CAS 91044-25-6 (1921)

rac-1,2-Diphenyl-1,2-diaminoethane-N,N,N',N'-tetraethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 20°C 0.10M U K1=17.63 1989SLa (101850)4026

C22H24N2O8 H2L Oxotetracycline CAS 79-57-2 (2202)

Oxytetracycline, 5-Hydroxy-tetracycline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=7.83 1992GAa (101876)4027

Cd++ vlt NaClO4 20°C 0.10M C M K1=3.19 B2= 5.65 1983SAb (101877)4028

B(PbAL)=8.31

B(PbA2L)=10.70

B(PbAL2)=9.13

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

C22H26N4O10 H4L BAPTA (7230)
1,2-Bis(o-aminophenoxy)ethane-N,N,N',N'-tetraethanoic acid;
(HOOCCH2)2NCH(OC6H4NH2)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=12.2 1993YTa (101970)4029

C22H30N2O4 L CAS 173547-24-5 (7560)
1,15-Diaza-3,4:12,13-dibenzo-5,8,11,18-tetraoxacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=<4 1998DLA (102107)4030

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C22H31N3O2 L OenNdipnH4 CAS 77016-64-9 (5939)
1,12,15-Triaza-3,4:9,10-dibenzo-13,17,-dimethyl-5,8-dioxacycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=7.94 1988ADb (102151)4031

Medium: 0.1 Et4NClO4 in 95% MeOH

C22H31N3O2 L CAS 218931-85-2 (7841)
1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dioxa-2,11-dimethylcycloheptadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=7.6 1998ABf (102156)4032

Medium: 95% MeOH/H2O, 0.1 M Et4NClO4.

C22H31N3O2 L OenNditnH4 CAS 85735-81-5 (5942)
1,12,16-Triaza-3,4:9,10-dibenzo-5,8-dioxacyclononadecan-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=5.33 1988ADb (102163)4033

Medium: 0.1 Et4NClO4 in 95% MeOH

C22H31N3O2 L OenNenbnH4 CAS 85735-83-7 (5855)
1,12,17-Triaza-3,4:9,10-dibenzo-5,8-dioxacyclononadeca-3,9-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=4.95 1988ADb (102168)4034

Medium: 0.1 Et4NClO4 in 95% MeOH

C22H31N3O3 L CAS 12859-24-4 (7557)
1,15,18-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacycloeicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=8.9 1998DLA (102174)4035
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C22H31N7 L (7484)
2,5,8,11,14-Pentaaza[15]-16,29-phenanthroline;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=15.89 2002BBF (102197)4036
K(CdL+H)=5.60
K(CdHL+H)=5.16
K(CdH2L+H)=2.91

Medium: 0.10 M Me4NCl.

C22H34N4 L CAS 140840-10-4 (7654)
1,14-Diphenyl-2,6,9,13-tetraazatetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.15M C K1=7.16 1998PGC (102222)4037
K(CdL+H)=8.27
K(CdL+OH)=2.73

C22H34N6 [22]-Py2N4 (5952)
Di-(2,6-pyridyl)-1,4,9,12,15,20-hexaazacyclodocosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.01M U K1=7.86 1985NSC (102232)4038
B(CdH-1L)=0.35

C22H35N5 L CAS 185558-39-8 (7653)
1,15-Diphenyl-2,5,8,11,14-pentaazapentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=12.44 1998PGC (102256)4039
K(CdL+H)=5.76
K(CdL+OH)=3.17

C22H36N6O2 H2L CAS 551959-32-1 (9062)
Bis[[2(2-aminoethylamino)ethylamino]methyl]phenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.15M C K1=11.59 2003AFa (102292)4040

B(CdHL)=21.20
B(CdH2L)=29.99
B(CdH3L)=38.18
B(CdH4L)=44.43

B(Cd2L)=19.46, B(Cd2H-1L)=8.80, K(Cd+CdL)=7.87, K(Cd2L+OH)=3.17.

C22H36N6O2S L CAS 209547-49-9 (8690)

5-(Dimethylamino)-N-[2-(1,4,7,10-tetraazacyclododec-1-yl)ethyl]-1-naphthalenesulfonamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M M K1=19.1 1996Kwa (102296)4041

K(CdL+H)=5.4

C22H36N8 L CAS 461655-89-0 (8895)

8,11,14,17,20,23,29,30-Octaazatricyclo[23.3.1.12,6]triaconta-1(29),2,4,6(30),25,27-hexaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=14.27 2002BBf (102297)4042

K(CdL+H)=5.45
K(CdHL+H)=5.42
K(CdH2L+H)=4.72
K(CdH3L+H)=2.64

Medium: 0.10 M Me4NCl.

C22H37N5O14 H7L CAS 3234-59-1 (2425)

Tetraethylenepentamineheptaethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=18.6 1999LLa (102315)4043

K(CdL+H)=9.6
K(CdH2L+H)=3.0
K(CdHL+H)=5.1
K(CdH3L+H)=1.9

K(CdL+Cd)=14.2; K(Cd2L+H)=3.7; K(Cd2HL+H)=1.8

Cd++ gl NaClO4 25°C 0.10M U K1=15.35 1984MSf (102316)4044

K(Cd+HL)=13.33
K(Cd+H2L)=7.89

C22H41N7O8S3 HL (7746)

Lysyl-cysteinyI-threonyI-cysteinyI-cysteinyI-alanine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt oth/un RT 0.05M U 1996MRb (102397)4045

K1eff=6.7 (pH=4.0)
K1eff=8.3 (pH=5.0)
K1eff=10.3 (pH=6.0)
K1eff=13.0 (pH=7.0)

Method: differential pulse polarography. Medium: phosphate buffer at various pH. K1eff=16.0 (pH=8.0), K1eff=20.3 (pH=9.0)

C22H42N2O6 L (6401)
7,16-Bis(tetrahydrofurfuryl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=7.03 1991DHa (102401)4046

C22H48N4O4 L (7292)
N,N',N'',N'''-Tetrakis(3-hydroxypropyl)-1,4,8,11-tetraazacyclotetradecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=5.1 1996DTa (102467)4047
B(CdH-1L)=-3.4

Medium: Et4ClO4

C22H48N6O2 L CAS 39678-22-3 (1542)
4,7,13,16-Tetramethyl-1,4,7,10,13,16-hexaaza-21,24-dioxabicyclohexacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=10.7 1978LMa (102482)4048
K(Cd+HL)=6.0

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

Cd++ gl NaClO4 25°C 0.15M C 1989BBb (102508)4049
B(Cd2L)=23.63
B(Cd2H2L)=36.06
B(Cd2H3L)=41.39
K(Cd2H2L+H)=5.3

C23H23NO5 L CAS 218619-58-0 (7808)
Dibenzo-pyridino-18-crown-6;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt non-aq 22°C 100% C I K1=<1 2001MRa (102652)4050
Medium: DMF, 0.025 M Et4NClO4. Method: differential pulse polarography.

e;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=6.09	1988ADb (102801)	4056
Medium: 0.1 Et4NClO4 in 95% MeOH										

C23H33N3O2		L			OenN(CH3)ditnH4			CAS 85735-82-6	(5583)	
1,12,16-Triaza-3,4:9,10-dibenzo-12-methyl-5,8-dioxacyclononadeca-3,9-diene;										
Cd++	gl	alc/w	25°C	95%	U			K1=4.68 K(Cd+HL)=1.91	1988ADb (102806)	4057
Medium: 0.1 Et4NClO4 in 95% MeOH										

C23H33N3O3		L						CAS 173547-19-8	(7558)	
1,15,19-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacycloheneicosan-3,12-diene;										
Cd++	gl	alc/w	25°C	95%	C			K1=7.8	1998DLA (102813)	4058
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.										

C23H33N5		L						CAS 127820-37-5	(8589)	
N-[[[(2-Aminoethyl)amino]ethyl]-N'-[2-[(anthracenylmethyl)amino]ethyl]-1,2-ethanediamine;										
Cd++	gl	NaCl	25°C	0.15M	C			K1=8.36 K(CdL+H)=9.98 K(Cd+HL)=8.07 K(CdHL+H)=5.48	2001PGa (102823)	4059

C23H34N4		L						(6385)		
5,6:14,15-Dibenzo-1,4,8,12-tetraaza-7,13-diethylcyclopentadecan-5,14-diene;										
Cd++	gl	alc/w	25°C	95%	U			K1=4.0	1990AMa (102826)	4060
In 95% methanol/H2O, 0.1 M Et4NClO4.										

C23H37N7		L						CAS 267428-80-8	(7952)	
11,14,17-Trimethyl-8,11,14,17,20,26,27-heptaazatricyclo[20.3.1.12,6]heptacosan-1,2,4,6,22,24-hexa										
Cd++	gl	R4N.X	25°C	0.10M	C			K1=13.23	2002BBF (102831)	4061

K(CdL+H)=6.05
K(CdHL+H)=5.41

Medium: 0.10 M Me4NCl.

Cd++ gl R4N.X 25°C 0.10M U H K1=13.23 2001ABa (102832)4062
K(CdL+H)=6.05
K(CdHL+H)=5.41

Medium: 0.10 M NMe4Cl. DH(K1)=-19.6 kJ mol⁻¹, DH(CdL+H)=-37.5,
DH(CdHL+H)=-45.6.

C23H41N3O3 L CAS 118974-36-0 (8971)
4,10-Diethyl-16-(phenylmethyl)-1,7,13-trioxa-4,10,16-triazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ cal non-aq 25°C 100% C H K1=2.62 1990DJb (102836)4063
Medium: DMSO. DH(K1)=-26.4 kJ mol⁻¹, DS(K1)=-38.3 J K⁻¹ mol⁻¹.

C23H51N7 L CAS 144140-22-7 (6698)
4,7,10,17,23-Pentamethyl-1,4,7,10,13,17,23-heptaazabicyclo[11.7.5]pentacosane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.15M C K1=14.22 1993BBa (102849)4064
B(CdHL)=20.71
K(Cd+L+H2O=CdLOH+H)=6.41
K(CdL+H)=6.5
K(CdL+OH)=5.9

C24H23NO7S H3L (1980)
3-(N-Carboxymethyl)aminomethyl-o-cresolsulfonephthalein;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=6.2 B2=10.50 1979Ymb (102927)4065

C24H26N4Fe L CAS 725696-29-7 (9158)
1,1'-Bis[[2-pyridinylmethyl]amino]methyl]-ferrocene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=5.71 2004CCb (102987)4066
K(CdL+H)=6.95
*K(CdL)=-9.93

C24H27N3O2 L CAS 132097-06-4 (6408)
4,5:13,14-Dibenzo-7,11,21-triaza-3,15-dioxabicyclo[15.3.1]heneicosa-1(21),4,13,17,19-pentaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=4.19 1991BFa (102994)4067
In 95% v/v MeOH/H2O, 0.1 M Et4NClO4

C24H30N2O6 H2L (1923)
Dibenz[b,k]-1,13-dioxa-5,9-diazacyclohexadecane-N,N'-diethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=7.3 1988ALb (103025)4068

C24H31N3O8 H3L CAS 35369-55-2 (6972)
N,N''-Bis(2-hydroxybenzyl)-2,5,8-triazanonane-N,N',N''-triethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.50M C K1=19.76 1994HCb (103052)4069
K(CdL+H)=9.39
K(CdHL+H)=7.35
K(CdH2L+H)=4.37

Cd++ gl KCl 25°C 0.10M C K1=16.74 1994MMF (103053)4070
K(CdL+H)=10.10
K(CdHL+H)=8.69
K(CdH2L+H)=4.87

C24H32O8 L DiBz-24-Crown-8 CAS 14174-09-5 (580)
2,3:14,15-Dibenzo-1,4,7,10,13,16,19,22-octaoxacyclotetracosane-2,14-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt oth/un RT 0.10M C K1=<2 1985LAa (103104)4071
Method: dc polarography. Medium: 0.10 M HNO3.

C24H35N3O3 L CAS 173547-21-2 (7559)
1,15,19-Triaza-3,4:12,13-dibenzo-5,8,11-trioxacyclodocosane-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=5.7 1998DLA (103251)4072
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C24H36N4O4 L Py-2-18-aneN2O4 CAS 103837-13-4 (8062)
7,16-Bis(2-pyridinylmethyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=10.96 1986DSa (103263)4073

C24H36O21 H6L CAS 71735-94-9 (7414)

1,4,7,10,13,16,19,22,25-Nonaoxacycloheptacosane-2,3,11,12,20,21-hexacarboxylic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M M K1=5.5 1991FGb (103305)4074
B(CdHL)=9.0

Medium: 0.10 M Et4NNO3.

C24H42N6O12 H6L (6546)
1,4,7,10,13,16-Hexaazacyclooctadecane-N,N',N'',N''',N''''-hexaethanoic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ EMF KCl 20°C 0.10M C K1=15.1 1981SFa (103366)4075
Method: Pt/H2 electrode.

C24H46N2O6 L (6567)
7,16-Bis(trans-2-hydroxycyclohexyl)-1,4,10,13-tetraoxa-7,16-diazocyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=8.64 1991DCa (103452)4076
K(CdL+OH)=5.29

C24H48N4O6 L CAS 56698-26-1 (1536)
4,10,16,22,27,32-Hexaoxa-1,7,13,19-tetraazatricyclo-tetratriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M U K1=8.84 1985NSb (103478)4077
B(CdHL)=15.43

C24H51OP L CAS 78-50-2 (4162)
Triocetylphosphine oxide; (C8H17)3P:O

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% U K(CdA2+L)=5.35 1990UKa (103539)4078
K(CdA2+2L)=8.51

Medium: benzene. HA=1-phenyl-3-methyl-4-benzoyl-5-pyrazolone

C24H52N4O6 L CAS 118018-00-1 (5877)
4,7,13,16-Tetrakis(2-hydroxypropyl)-1,10-Dioxa-4,7,13,16-tetraazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 25°C 0.10M C K1=8.39 1989HBa (103553)4079

C25H19N5O10 L CAS 611183-31-4 (9129)
8,9,18,19-Tetrahydro-3,23-dinitro-15,11-nitrilodibenzo[1,15,4,12]dioxadiazacyclohen
eicosinetetron

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ nmr non-aq 25°C 100% C M 2003CAa (103598)4080
K(Cd(NO3)2+L=CdL(NO3)2)=1.9

Medium: acetonitrile. Method: 1H nmr. For the 9,17-dimethyl derivative, K=
0.8; 3,23-bis(NMe2), K=1.6; 9,17-dimethyl-3,23-bis(NMe2) derivative, K=2.2

C25H22O2P2 L CAS 207-21-8 (2099)
Methylenebis(diphenylphosphine oxide); Ph2P(O)CH2P(O)Ph2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% U 1990UKa (103624)4081
K(CdA2+L)=7.02

Medium: benzene. HA=1-phenyl-3-methyl-4-benzoyl-5-pyrazolone

C25H28N4O10 L CAS 752-13-6 (2940)
Tetraacetylriboflavine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ nmr non-aq 38°C 100% U K1=2.6 1975LHa (103672)4082
B3=5.54

In acetone. B3 measured by ESR at 38 C, K1 by spectrophotometry at 25 C

C25H30N4O2 L CAS 336181-87-4 (8558)
Octahydro-12H-7,11-nitrilo-6H,18H-dibenzo[b,m][1,15,5,8,11]dioxatriazacyclodocosine
;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=9.5 2002FGa (103697)4083

Medium: 95% MeOH/H2O, 0.10 M Et4NC104. For the 2,16-t-butyl derivative,
K1=9.7.

C25H31N2O5F3 L CAS 147727-63-7 (3902)
10-(Coumarin 153)-1,4,7-trioxa-10-azacyclododecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 20°C 100% U I K1=6.8 1995BBd (103714)4084

Medium: MeCN. Stoich.: CdL2+CdL. In MeOH: K1=3.8

C25H32N2O6 H2L (1924)
Dibenz[b,k]-1,13-dioxa-5,9-diazacycloheptadecane-N,N'-diethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U			K1=7.1	1988ALb (103722)	4085

C25H32N6			L					CAS 132177-84-5	(536)	
3,11-Bis(2-pyridylmethyl)-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=14.85 K(CdL+H)=1.91	1999CDa (103742)	4086

C25H36N2O4			L					(6970)		
2,3:11,12-Dibenzo-5,9-diaza-5,9-(2-hydroxyethyl)-1,13-dioxacycloheptadeca-2,11-diene;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	alc/w	25°C	95%	U			K1=<4.5	1994ACb (103754)	4087
Medium: 95% MeOH/H2O, 0.1 M NEt4ClO4. Also data for analogous ligands with smaller rings.										

C25H38N4			L					(6386)		
5,6:14,15-Dibenzo-1,4,8,12-tetraaza-7,13-dipropylcyclopentadecan-5,14-diene;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=3.9	1990AMa (103764)	4088
In 95% methanol/H2O, 0.1 M Et4NC1O4.										

C25H38N6			L					CAS 255039-57-7	(8591)	
N-(9-AnthacenyImethyl)-3,6,9,12-tetraazatetradecane-1,14-diamine;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=10.07 K(CdL+H)=9.82 K(Cd+HL)=9.85 K(CdHL+H)=6.62	2001PGa (103769)	4089

C25H48N6O8		H3L						Desferrioxamine	CAS 70-51-9	(2488)
Desferrioxamine B; NH2.((CH2)5.NOH.CO.C2H4.CO.NH)2.(CH2)5.NOH.CO.CH3										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaNO3	20°C	0.1M	U			K(Cd+HL)=7.88 K(Cd+H2L)=5.58 K(Cd+H3L)=3.32	1963AEa (103796)	4090

C26H22N4O HL (1410)
1-Phenyl-1-propanone-3-(4-benzyl-6-phenyl)-pyridazinyl hydrazone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=7.78 1983RRa (103865)4091

C26H23N5O2 HL (5918)
Hippuric monohydrazone-3-hydrazino-4-benzyl-6-phenylpyridazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=8.79 B2=16.27 1985RSb (103874)4092

C26H24O2P2 L (6648)
Bis(diphenylphosphinyl)ethane; (C6H5)2PO.CH2CH2.PO(C6H5)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% U 1990UKa (103908)4093
K(CdA2+L)=5.68

Medium: benzene. HA=1-phenyl-3-methyl-4-benzoyl-5-pyrazolone

C26H25N09S H4L Semi-Xylenol O (426)
3-(N,N-Di(carboxymethyl)aminomethyl)-2-cresolsulfonephthalein;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M U K1=9.8 1981MUa (103939)4094

C26H27N3O10 H4L (7231)
2-((2-Amino-5-methylphenoxy)-methyl)-6-methoxy-8-aminoquinoline-N,N,N',N'-tetraetha
noic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=12.26 1993YTa (103956)4095

C26H28N6 L CAS 16858-02-9 (933)
N,N,N',N'-Tetrakis-(2-pyridylmethyl)-diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt NaNO3 25°C 0.10M U K1=16.64 1999CUa (103994)4096

Cd++ vlt NaNO3 25°C 0.10M C K1=16.62 1995CCb (103995)4097
Method: differential pulse polarography

Cd++ gl KNO3 20°C 0.10M C H K1=16.33 1977AHc (103996)4098

Calorimetry: DH1=-78.7 kJ mol⁻¹, DS1=44.4

C26H28O4 H2L B(CH2AcAcCH2)2B (2253)
3,5,16,18-Tetraoxo[7.7]metacyclophane ;Cyclo-(-C6H4.(CH2)2.CO.CH2.CO.(CH2)2-)2

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 24°C 50% U K1=7.5 1979ACa (104017)4099

C26H30N2O2 L CAS 268727-12-4 (8553)
6,7,8,9,10,11,17,18-Octahydro-6-(phenylmethyl)-5H-dibenzo[e,n][1,4,8,12]dioxadiazac
yclopentadecin

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=<4 2002KAb (104029)4100

Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.

C26H34N4O6 H2L EDTAMBA CAS 144150-09-4 (7802)
Ethylenedinitrilo-N,N'-diethanoic-N,N'-bis(1-phenylethylacetamido) acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M M H K1=8.95 1998DTa (104083)4101

Medium: 0.10 M KClO4. By calorimetry, DH(K1)=-40.18 kJ mol⁻¹,
DS(K1)=36.6 J K⁻¹ mol⁻¹.

C26H34N6O8 H4L CAS 132709-65-0 (8941)
3,6,14,17,23,24-Hexaazatricyclo[25.3.1.1.0.0]dotriaconta-10,12,14,26,28,
tetraene-3,6,14,17-tetraene
tic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M M K1=19.8 1996MBb (104090)4102

K(CdL+H)=4.1

K(CdHL+H)=3.3

C26H38N6 L CAS 180684-75-7 (7295)
1,8,14,17,24,31-Hexaazatricyclo[25.3.1.1.0.0]dotriaconta-10,12,14,26,28,

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.20M C K1=18.4 1996FJa (104203)4103

B(CdHL)=21.8

C26H40N10 L CAS 85264-43-3 (7797)
N,N,N',N'-Tetrakis(3',5'-dimethylpyrazol-1'-ylmethyl)-1,2-diaminoethane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% U 1997HIb (104238)4104
K(M+3L+2ClO4=ML3.2ClO4)=19.58

Method: extraction form 0.1 M NaClO4 into nitrobenzene.

Reaction is: Cd(aq)+3L(org)+2ClO4(aq)=CdL3.2ClO4(org)

C26H42N6O2 H2L BDBPH CAS 226714-05-2 (7225)
13,27-Dimethyl-3,6,9,17,20,23-hexaazatricyclo[23.3.1]triacontahexaene-29,30-diol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C M 2002GMa (104259)4105

B(Cd2L)=12.36
B(CdH-1L)=2.89
B(CdCuL)=38.94
B(CdCuH-1L)=31.83

B(CdCuH-2L)=11.97

Cd++ gl NaCl 25°C 0.10M C K1=14.28 2000SMi (104260)4106

K(CdL+H)=11.11
K(CdHL+H)=9.96
K(CdH2L+H)=5.01
*K(CdL)=-11.39

K(CdL+Cd)=12.36, *K(Cd2L)=-10.90, *K(Cd2H-1L)=-11.52.

C26H46N6S2 L CAS 286388-53-2 (7729)
1,4,7,13-Tetramethyl-10,16-bis(thienylmethyl)-1,4,7,10,13,16-hexaazacyclooctadecane
;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C K1=11.46 2000BBc (104290)4107

K(CdL+H)=5.14

C26H56N8 L TCOA-14 (7430)
1,5,9,12,16,20,24,27-Octaazatricyclo[18.10.2.2(5,16)]tetratriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=9.51 1998DDa (104370)4108

K(Cd+HL)=8.8
K(Cd+H4L)=2.4
K(Cd+CdL)=5.6
*K1(Cd2L)=-5.8

Medium: 0.1 M NEt4ClO4. *K1(Cd2H-1L)=-10.5.

C27H24N4O L BAHP (1023)
Benzoylacetone-monohydrazone-3-hydrazino-4-benzyl-6-phenylpyridazine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U K1=7.35 B2=14.13 1983RSa (104379)4109

C27H33N3O2 L CAS 540522-39-2 (9154)
1,12,15-Triaza-3,4:9,10-dibenzo-5,8-dioxacycloheptadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=6.3 2004FRa (104531)4110
Medium: 95% methanol/water, 0.1 M Et4NC1O4.

C27H35N2O6F3 L (4198)
10-(Coumarin 153)-1,4,7,10-tetraoxa-13-azacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 20°C 100% U I K1=6.5 1995BBd (104553)4111
Medium: MeCN. In MeOH: K1=3.8

C27H41N3O4 L CAS 262610-61-7 (7222)
3,4:5,6-Dibenzo-14-methyl-4',4''-bis(dimethylamino)1,8,11,17-tetraoxa-14-azacyclononadecan3,5diene

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 70% C 2000Cma (104591)4112
B(CdHL)=11.35
B(CdH-1L)=-4.60
B(CdH-2L)=-13.7

Medium: 70% v/v dioxane/H2O, 0.10 M KNO3.

C27H42N4 L (6387)
5,6:14,15-Dibenzo-1,4,8,12-tetraaza-7,13-dibutylcyclopentadecan-5,14-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=4.1 1990AMa (104596)4113
In 95% methanol/H2O, 0.1 M Et4NC1O4.

C27H44O L Vitamin D3 CAS 67-97-0 (6103)
7-Dehydrocholesterol, Cholecalciferol

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 70% C K1=7.6 B2=14.30 2003MYc (104608)4114
Medium: 70% v/v EtOH/H2O, 0.10 M KNO3.

Cd++ gl alc/w 37°C 70% U M K1=6.46 B2=13.64 1993ZLa (104609)4115
Medium: 70% v/v EtOH/H2O, 0.1 M KNO3. Ternary complexes with amino acids

Cd++ gl alc/w 37°C 70% C M K1=6.46 B2=13.64 1993ZLb (104610)4116

B(CdL(bpy))=12.03

B(CdL(en))=13.48

Medium: 70% v/v EtOH/H2O, 0.10 M KNO3.

Cd++ gl alc/w 37°C 70% U K1=6.46 B2=13.64 1989QYa (104611)4117
Medium: 70% (v/v) EtOH/H2O, 0.1 M KNO3

C27H48N6O10 H3L Nocardamin (3519)
Desferri-ferrioxamin E;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaNO3 20°C 0.1M U K1=8.83 1963AEa (104634)4118
K(Cd+HL)=6.19
K(Cd+H2L)=4.60

C28H35N3O6 L CAS 114880-42-1 (7377)
3-(p-13-Aza-1,4,7,10-tetroxacyclopentadecan-13ylstyryl)-7-dimethylamino-1,4-benzoxa
zin-2-one;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq RT 100% C K1=3.98 1998ABc (104759)4119
Medium: acetonitrile. Method: fluorescence spectroscopy.

C28H36Fe2N4 L CAS 174322-18-0 (7771)
1,1':1',1''-Bis[1,2-ethanediylbis(iminomethylene)]bis[ferrocene];

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 70% C K1=5.49 1998Lba (104770)4120
B(CdHL)=12.46
K(CdL+H)=6.47
K(Cd+L+OH)=11.27
B(CdH-1L)=-4.38

Medium: 70% (v/v) THF/H2O, 0.1 M KCl.

Cd++ gl mixed 25°C 70% C K1=6.08 1998Lba (104771)4121
B(PbHL)=12.99
B(PbH2L)=18.77
K(PbL+H)=6.91
K(PbHL+H)=5.78

Medium: 70% (v/v) THF/H2O, 0.1 M KCl. K(Pb+L+OH)=14.05,
B(PbH-1L)=-2.27.

C28H44N2O2 HL CAS 84356-27-4 (8397)
1-Phenyl-3-methyl-4-stearoyl-5-hydroxypyrazole;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% C 1998SGc (104933)4122

Method: extraction from 0.33 M SO4 medium into toluene.

K(Cd+2HL(org)=CdL2(org)+2H)=-10.85. For 1 M ClO4 medium, K=-9.40.

C28H46N6O2 L CAS 402562-58-7 (8007)
3,6,10,18,21,25-Hexaaza-31,32-dihydroxy-14,29-dimethyltricyclo[25,3,1,1]dotriaconta-1,12,14,16,27

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C K1=12.44 2002K Mb (104960)4123
K(CdL+H)=11.03
K(CdHL+H)=10.02
K(CdH2L+H)=6.95
K(CdH3L+H)=7.06

K(CdL+Cd)=9.54, K(Cd2L+H)=8.02, K(Cd2HL+H)=7.03, K(Cd+H2L)=10.94,
K(Cd+HL)=11.77.

C28H48N8 HL (7463)
1,4,7,13-Tetramethyl-10,16-bis(2-pyridylmethyl)-1,4,7,10,13,16-hexaazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaClO4 25°C 0.10M C M K1=10.12 1999BBa (104974)4124
K(CdL+H)=8.49
K(CdHL+H)=5.89

C28H52N6O5 HL CAS 811431-80-8 (9159)
2,6-Bis(1,4-dioxa-7,10,13-triazacyclopentadec-10-ylmethyl)-phenol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.15M C K1=12.58 2004ADa (105004)4125
K(Cd+HL)=11.16
K(CdHL+H)=8.37
K(CdL+Cd)=11.91
K(Cd2L+OH)=2.8

K(CdL+H)=9.15.

Cd++ gl alc/w 25°C 95% U K1=8.4 2004PFa (105005)4126

Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.

C28H60N8 L TCOA-15 (7431)
1,5,9,13,17,21,25,29-Octaazatricyclo[19.11.2.2(5,17)]hexatriacontane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=10.6 1998DDa (105065)4127
K(Cd+H3L)=3.2

K(Cd+H2L)=5.3

K(Cd+HL)=7.9

K(Cd+CdL)=3.5

Medium: 0.1 M NEt4ClO4. *K1(Cd2L)=-7.6, *K1(Cd2H-1L)=-9.8.

C29H37N3O4S2 L CAS 173547-29-0 (7564)
1,8,15-Triaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxa-18-thiacycloecosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=4.8 1998DLA (105113)4128

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C29H37N3O5S L CAS 173547-28-9 (7563)
1,8,15-Triaza-3,4:12,13-dibenzo-8-tosyl-5,11,18-trioxacycloecosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=<4 1998DLA (105121)4129

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C29H38N4O4S L CAS 168279-83-2 (7561)
1,8,15,18-Tetraaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxacycloecosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=8.1 1998DLA (105130)4130

B(CdHL)=14.0

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C29H41N5O4 H2L CAS 357333-44-9 (7996)
Bis-(piperazinyl-4-(4-carboxybenzyl)ethyl)methylamine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.15M C K1=4.05 2001BFa (105143)4131

K(CdL+H)=7.49

K(CdHL+H)=6.81

K(CdH2L+H)=6.52

Additional method: 1H and 13C NMR spectroscopy.

C29H45N3O5 L CAS 262610-63-9 (7249)
3,4:5,6-Dibenzo-14-methyl-4',4''-bis(dimethylamino)-1,8,11,17,20-pentaoxa14azacyclod
ocosan3,5diene

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl mixed 25°C 70% C K1=3.44 2000CMA (105153)4132

B(CdHL)=11.18

B(CdH-1L)=-4.57

B(CdH-2L)=-17.82

Medium: 70% v/v dioxane/H2O, 0.10 M KNO3.

C30H36N8O3 Furan-cryptand CAS 121954-37-8 (7451)
39,40,41-Trioxa-1,4,11,14,17,24,29,36-octaazapentacyclo[12.12.12.1.1.1]henLetetraco
ntadodecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% U K1=4.13 1996AAb (105248)4133
Medium: MeCN

tacyclo[12.12.12.1(6,9).1(19,22).1(31,34)]hentetetraconta-4,6,8....dodecaene

C30H40N4O4S L CAS 173547-27-8 (7562)
1,8,15,19-Tetraaza-3,4:12,13-dibenzo-8-tosyl-5,11-dioxacycloheneicosan-3,12-diene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=7.8 1998DLA (105288)4134
B(CdHL)=14.3

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C30H50N6O2 L CAS 380446-61-7 (8002)
3,7,11,19,23,27-Hexaaza-33,34-dihydroxy-15,31-dimethyltricyclotetratetriaconta-1,13,1
5,17,29,30-hex

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KCl 25°C 0.10M C M K1=11.54 2001WKA (105364)4135
K(CdH3L+H)=3.37
K(CdH2L+H)=7.97
K(CdHL+H)=9.38
K(CdL+H)=11.09

*K(CdL)=-12.72, K(Cd2L+H)=5.61, K(CdL+Cd)=9.83, *K(Cd2L)=-10.25. Also
data for dinuclear complexes M2HnL, and heterodinuclear complexes MM'HnL.

Cd++ gl KCl 25°C 0.10M U K1=11.54 2001WMA (105365)4136
K(CdL+H)=11.09
K(CdHL+H)=9.39
K(CdH2L+H)=7.97
K(CdL+Cd)=9.83

K(Cd2L+H)=5.61, *K(CdL)=-12.72, *K(Cd2L)=-10.25.

C31H24N4O HL CAS 88700-85-0 (1409)
1,2-Diphenyl-1,2-ethanedione-3-(4-benzyl-6-phenyl)-pyridazinyl hydrazone;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl diox/w 30°C 75% U I K1=8.65 B2=16.70 1983RRA (105397)4137
In 75% DMF: K1=6.37; B2=12.15

C32H32N2O12 H6L Cresolphthalexo CAS 2411-89-4 (1997)
o-Cresolphthalein-3,3'-bis(methyliminodiethanoic acid)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl04	30°C	0.1M	U	TIH		K1=13.59 K(Cd+HL)=12.21 K(Cd+H2L)=8.63	1996STa (105605)	4145

*K1=-7.68.

C32H42N6O2S H2L CAS 226211-88-7 (7999)
2,2'-(7,10-DiMe-1-thia-4,7,10,13-tetraazacyclopentadeca-4,13-diyl)bis(methylene)bis-quinolinol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=13.73 B(CdHL)=16.59	2001LIa (105739)	4146

Medium: 0.10 M Me4NCl.

C32H42N6O3 H2L CAS 226211-86-5 (7997)
2,2'-(7,10-DiMe-1-oxa-4,7,10,13-tetraazacyclopentadecan-4,13-diyl)bis(methylene)-bis-quinolinol;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C			K1=15.33 B(CdHL)=17.50 B(CdH-1L)=9.62	2001LIa (105746)	4147

Medium: 0.10 M Me4NCl.

C33H36N2O2 L CAS 225918-78-5 (8554)
6,7,8,9,10,11,17,18-Octahydro-6,10-bis(phenylmethyl)-5H-dibenzo[1,4,8,12]dioxadiaza cyclopentadeci

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	C			K1=<4	2002KAb (105884)	4148

Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.

C33H36N4O6 L Bilirubin CAS 635-65-4 (2623)
Bilirubin

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	oth/un	23°C	0.05M	U			Keff=5.20	1974NHa (105896)	4149

Medium: 0.05 M phosphate buffer, pH 8

C33H38N2O6P2 H2L CAS 361523-72-0 (7842)
1,12-Diaza-3,4:9,10-dibenzo-5,8-dioxacyclopentadecan-1,2-bis(methylenephosphoric acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=10.4 2001FLa (105904)4150
Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C33H39N11 L Pyr-cryptand CAS 141258-00-6 (7452)
1,4,12,15,18,26,31,39,42,43,44-Undecaazapentacyclo[13.13.13.1.1.1]tetratetraconta
pentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% U K1=6.50 1996AAb (105913)4151
Medium: CH3CN

.13.1(6,10).1(20,24).1(33,37)]tetratetraconta-4-6-8-10(44),11...pentadecaene

C33H44N6O2S H2L CAS 226211-89-8 (8000)
2,2'-(7,11-DiMe-1-thia-4,7,11,14-tetraazacyclohexadecan-4,14-diyl)bis(methylene)bis-
-quinolinol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=12.54 2001LIa (105943)4152
B(CdHL)=16.41

Medium: 0.10 M Me4NCl.

C33H44N6O3 H2L CAS 226211-87-6 (7998)
2,2'-(7,11-DiMe-1-oxa-4,7,11,14-tetraazacyclohexadecan-4,14-diyl)bis(methylene)bis-
8-quinolinol;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=10.55 2001LIa (105950)4153
B(CdHL)=15.84
B(CdH-1L)=3.54

Medium: 0.10 M Me4NCl.

C33H45N5O3 L CAS 176483-79-7 (7769)
4,24,29-Trioxa-1,11,14,17,36-pentaazapentacyclo[]hentetraconta-5,7,9,19,21,23,30,32
,34-nonaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl R4N.X 25°C 0.10M C K1=7.35 2000BBf (105961)4154
K(Cd+HL)=6.94
K(CdL+H)=7.94

Medium: 0.10 M Me4NNO3.

C34H36N6O2Cl2 CAS 656821-44-2 (9234)
7-Methyl-3,11-bis((5-chloro-8-hydroxy-7-quinolinyl)methyl)tetraazabicycloheptadeca-1,13,15-triene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	20°C	83%	C			K1=18.57 B(CdHL)=27.74 B(CdH2L)=34.64 B(CdH3L)=39.38 B(Cd2L)=26.25	2003CCb (106013)	4155

Medium: 83% (v/v) MeOH/H2O, 0.10 M Bu4NNO3. B(Cd2HL)=33.09.

C34H38N2O3 L CAS 268727-13-5 (8555)
Decahydro-17,20-bis(phenylmethyl)dibenzo[h,p][1,4,7,11,14]trioxadiazacycloheptadecine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	C			K1=<4	2002KAb (106023)	4156

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C34H54O8 H2L Lasalocid CAS 25999-20-6 (2335)
Lasalocid acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	100%	M	H		K1=5.7 B2=9.6	1994MPc (106115)	4157

Medium: MeOH. DH(K1)=16.9 kJ mol⁻¹, DS=169 J K⁻¹ mol⁻¹; DH(B2)=26.1, DS=271

C35H36N6 L CAS 750635-82-6 (9186)
2,9-[2,5,8-Triaza-5-(N-anthracene-9-methylamino)ethyl]-[9]-1,10-phenantrolinophane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	mixed	25°C	50%	C			K1=15.2 K(CdL+H)=5.8	2004BBd (106186)	4158

Medium: 50% v/v CH3CN/H2O, 0.1 M Me4NCl.

C35H40N2O3 L CAS 268727-14-6 (8556)
Decahydro-17,21-bis(phenylmethyl)-16H-dibenzo[h,q][1,4,7,11,15]trioxadiazacyclooctadecine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	C			K1=<4	2002KAb (106193)	4159

Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

C36H36N24O12 L Cucurbituril CAS 283175-97-3 (6744)

Cucurbit[6]uril;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sol none 25°C 0.0 C K1=3.04 2001BCe (106251)4160

Method: total organic carbon analysis of dissolved species.

For the homologous cucurbit[5]uril, K1=1.41.

C36H42N8 L Xylyl-cryptand CAS 172881-87-7 (7456)

1,4,12,15,18,26,31,39-Octaazapentacyclo[13.13.13.1.1.1]tetratatetracontadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% U K1=6.5 1996AAAd (106315)4161

B(Cd2L)=12.8

Medium: CH3CN

C36H44N4O2 L CAS 446875-57-6 (8559)

3,17-Bis(1,1-dimethylethyl)-tetrahydro-dinitrilodibenzodioxadiazacyclotetracosine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=9.8 2002FGa (106326)4162

Medium:95% MeOH/H2O, 0.10 M Et4NC104.

C36H48N4O8P4 H4L CAS 138149-64-1 (7759)

1,4,7,10-Tetraazacyclododecanetetrayl)tetrakis(methylene)tetrakis(phenylphosphinic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl KNO3 25°C 0.10M C K1=18.24 2000RKa (106386)4163

B(CdHL)=20.96

B(Cd2L)=21.32

C36H60N8O8 L CAS 121925-84-6 (7152)

Cyclo(Gly-eLL-Gly)2 (eLL=N,N'-ethylene-bridged (S)-leucyl-(S)-leucine

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% U K1=4.81 B2=7.79 1994MKa (106451)4164

Medium: MeCN

C36H62O11 HL Monensin CAS 17090-79-8 (737)

Monensin, 1,6-dioxaspiro[4,5]decane derivative;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 100% M H K1=6.7 B2=11.1 1994MPc (106487)4165

Medium: MeOH. DH(K1)=21.1 kJ mol⁻¹, DS=185 J K⁻¹ mol⁻¹; DH(B2)=37.7,DS=298

C37H44N2O13S H6L MeThymol Blue (428)
3,3'-Bis(N,N-di(carboxymethyl)aminomethyl)thymolsulfonephthalein;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	oth/un	?	?	U			K(Cd+H3L)(?)=5.80	1971ANb (106575)	4166

C38H52N4O8P4 H4L CAS 139300-44-0 (7760)
(1,4,8,11-Tetraazacyclotetradecanetetrayl)tetrakis(methylene)tetrakis(phenylphosphinic acid);

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C			K1=9.91 B(CdH2L)=22.05 B(Cd2L)=12.99	2000Rka (106698)	4167

C39H42N4O2 HL CAS 688348-35-8 (9160)
Octahydro-19,22-bis(phenylmethyl)-12H-7,11-nitrilo-6H,18H-dibenzo[1,15,5,8,11]dioxatriazacyclo;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=6.1	2004PFa (106710)	4168

Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.

C39H48N6O9 H3L CAS 710306-63-1 (9205)
1,4,7-Tris[(2''S)-acetamido-2''-(1''-carboxy-3''-phenylpropane)]-1,4,7-triazacyclononane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	20%	C			K1=4.99 K(Cd+HL)=4.64 K(Cd+H2L)=3.99 K(Cd+H3L)=3.55	2004PLa (106719)	4169

Medium: 20% EtOH/H2O, 0.1 M N(Et)4ClO4.

C40H44N4O2S4 CAS 244271-42-9 (8951)
4,7,13,16-Tetrakis(phenylmethyl)-1,10-dioxa-4,7,13,16-tetraazacyclooctadecane-3,8,12,17-tetrathi

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	non-aq	25°C	100%	C			K1=6.7 B2=11.60	1999RPa (106758)	4170

Medium: acetonitrile.

C40H46N4O2S4 L CAS 244271-41-8 (8950)

Dimethyl-N,N',6,9-tetrakis(phenylmethyl)-5,10-dithione-3,12-dioxa-6,9-diazatetradecanedithioamide

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 25°C 100% C K1=8.4 B2=12.80 1999RPa (106768)4171
Medium: acetonitrile.

C40H50N2O10 L CAS 143902-45-8 (8935)
Decamethylcucurbit[5]uril;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ cal mixed 25°C 50% C IH K1=1.34 2000ZKb (106803)4172
Medium: 50% v/v formic acid/H2O. DH(K1)=108 kJ mol-1, DS(K1)=389 J K-1
mol-1. By potentiometry in aqueous 0.05 M Et4NCl, K1=<2.

C41H45N3O2 L CAS 129508-47-0 (8557)
Decahydro-6,9,12-tris(phenylmethyl)-5H-dibenzo[e,p][1,4,8,11,14]dioxatriazacycloheptadecine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% C K1=<4 2002KAb (106879)4173
Medium: 95% MeHO/H2O, 0.10 M Et4NClO4.

C41H67N7O4 L CAS 357333-45-0 (8036)
9-Methyl-3,6,9,12,15,22,31-heptaaza-25,28,38,41-tetraoxahexacyclohepta-tetracontaxaene;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl NaCl 25°C 0.15M C K1=3.25 2001BFa (106901)4174
K(CdL+H)=8.05

C42H38N4O4S2 L CAS 114407-61-3 (8533)
N,N'-[1,2-Ethanediybis[nitrilo(phenylmethylidyne)-2,1-phenylene]]bis-4-methylbenzenesulfonamide;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ dis non-aq 25°C 100% C Kex=-14.28 2002HTa (106906)4175

Method: extraction from 0.1 M KNO3 into CHCl3/H2L solution.
Kex: Cd+H2L(o)=CdL(o)+2H

C42H54N6O9 L CAS 187456-45-7 (9206)
1,4,7-Tris[(2''S)-acetamido-2''-(methyl-3''-phenylpropanoate)]-1,4,7-triazacyclononane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	20%	C		K1=6.49 K(Cd+HL)=4.54	2004PLa (106968)	4176
Medium: 20% EtOH/H2O, 0.1 M N(Et)4ClO4.									

C43H58N4O12		H3L					Rifampicin CAS 13292-46-1 (8977)		
3-[[[4-Methyl-1-piperazinyl]imino]methyl]rifamycin;									
Cd++	gl	alc/w	30°C	50%	C T H		K(Cd+H2L)=6.95 K(CdH2L+H2L)=5.39	2001SKd (107017)	4177
Medium: 50% v/v MeOH/H2O, 0.05 M KCl. DH(Cd+H2L)=-50.19 kJ mol ⁻¹ , DS=-32.0 J K ⁻¹ mol ⁻¹ ; DH(CdH2L+H2L)=-39.91, DS=-29.0. Also data for 35 and 40 C.									

C44H22N4O12Br8S4		H6L					CAS 176173-80-1 (6959)		
2,3,7,8,12,13,17,18-Octabromo-5,10,15,20-tetrakis(4-sulfonatophenyl)porphyrin;									
Cd++	gl	NaNO3	25°C	0.1M	C		K(Cd+H2L=CdL+2H)=-8.60	1996TNa (107036)	4178

C44H30N4		H2L					Tetraphenylpor. CAS 917-23-7 (1781)		
5,10,15,20-Tetraphenyl-21H,23H-porphine;									
Cd++	sp	non-aq	25°C	100%	U M		K(CdL+A)=4.73 K(CdL+B)=3.83 K(CdL+py)=3.51 K(CdL+C)=2.27	1970KHa (107059)	4179
Medium: benzene. A=4-aminopyridine, B=4-methylpyridine, C=4-cyanopyridine									

C44H30N4O12S4		H4L					(6422)		
5,10,15,20-Tetra(p-phenylsulfonic acid)porphin;									
Cd++	sp	NaNO3	25°C	0.10M	C		B(CdH-2L)=-10.27	2003KPa (107081)	4180

C44H38N8		H2L					CAS 48242-70-2 (6629)		
5,10,15,20-Tetrakis(1-methylpyridinium-4-yl)porphine;									
Cd++	sp	NaNO3	25°C	0.10M	C				

Cd++ sp NaNO3 25°C 0.50M C K1=17.58 1998IHb (107101)4181
K(Cd+H2L=CdL+2H)=-7.70

For the 2-pyridyl analogue, K1=16.11, K(Cd+H2L=CdL+2H)=-6.10

C44H50N4O7F6 L (4218)

7,13-Bis(coumarin 153)-1,4,10-trioxa-7,13-diazacyclopentadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 20°C 100% U I K1=6.4 1995BBd (107152)4182
Medium: MeCN. In MeOH: K1=5.2. Stoich.:CdL2+CdL

C46H48N4O2 HL CAS 688348-38-1 (9161)

Octahydro-19,22,25-tris(phenylmethyl)-12H-7,11-nitrilo-6H,18H-dibenzo[1,15,5,8,11]dioxatriazac;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 95% U K1=< 4 2004PFa (107266)4183
Medium: 95 % methanol/H2O, 0.1 M Et4NClO4.

C46H54N4O8F6 L (4741)

7,16-Bis(coumarin 153)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp non-aq 20°C 100% U I K1=7 1995BBd (107286)4184
Medium: MeCN. In MeOH: K1=5.5

C48H30N4O8 H6L CAS 14609-54-2 (5377)

Tetracarboxyphenylphorphine;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp NaNO3 25°C 0.10M C 2003KPa (107346)4185
B(CdH-2L)=-10.37

C48H54N3O3P3 L (6835)

cis,cis-1,3,5-Tris(2-(diphenylphosphinyl)ethylamino)cyclohexane;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ gl alc/w 25°C 70% U K1=6.03 1993KMb (107381)4186
K(CdL+OH)=6.93

Medium: 70% w/w EtOH/H2O, LiNO3

C48H57N9O9 L CAS 710306-64-2 (9207)

1,4,7-Tris[(2''S)-acetamido-2''-(methyl-3''-(1H-3-indolyl)propanoate)]-1,4,7-triazacyclononane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	20%	C		K1=8.54	2004PLa (107393)	4187
Medium: 20% EtOH/H2O, 0.1 M N(Et)4ClO4.									

C48H96N2O4		L					CAS 72469-41-1	(5351)	
N,N-Dioctadecyl-N',N'-dipropyl-3,6-dioxaoctanediamide;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	oth/un	21°C	100%	C		K1=17.1	1999CPa (107444)	4188
Medium: PVC/DOS ion selective electrode membrane (DOS: bis(2-ethylhexyl)-sebacate). Data for structurally related ionophores.									

C51H35N5O14S4		H5L					CAS 138194-01-1	(7826)	
21-(4-Nitrobenzyl)-5,10,15,20-tetrakis(4-sulfonatophenyl)-23H-porphyrin;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	NaNO3	25°C	0.10M	C T		K(Cd+HL=CdL+H)=-2.19	1997TIa (107466)	4189
DH(Cd+HL=CdL+H)=21.0 kJ mol ⁻¹ , DS=29.1 J K ⁻¹ mol ⁻¹ .									

C54H62N8O14S4		H2L					CAS 187828-35-9	(8875)	
Bis[(4,10-Diaza-4,10-ditosyl-benzo-12-crown-4)4'-yl]diaminoglyoxime;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	mixed	25°C	70%	U		K(Cd+HL)=4.05 K(Cd+H+HL)=14.50 K(Cd+HL=CdH-1L+2H)=-7.01	1996ADc (107537)	4190
Medium: 70% v/v acetone/H2O, 1.0 M NaNO3.									

C56H72N8O12		L					CAS 710306-65-3	(9208)	
1,4,7,10-Tetrakis[(2''S)-acetamido-2''-(methyl-3''-phenylpropanoate)]-1,4,7,10-tetraazacyclododeca									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	20%	C		K1=9.16 K(Cd+HL)=6.16	2004PLa (107595)	4191
Medium: 20% EtOH/H2O, 0.1 M N(Et)4ClO4.									

C69H102N4O9		L					CAS 116352-85-3	(9286)	
para-t-Butyldihomooxalix[4]arene tetra(diethyl)amide;									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	alc/w	25°C	100%	C		K1=5.7	2004Mfa (107828)	4192

Medium: MeOH, 0.01 M Et4NCl.

C88H96N8O16 L CAS 639030-70-9 (9278)

Tetra(benzoylcarbamido)cavitand;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE NaCl rt 0.01M C K1=5.9 2003MGa (107933)4193

Method: segmented sandwich membrane ISE.

C112H120N4016P4 L CAS 195455-62-0 (9276)

1,21,23,25-Tetrapentyl-7,11,15,28-tetra[(diphenylphosphinyl)acetamidomethylene] cavitand;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE NaCl rt 0.01M C K1=18.1 2003MGa (107988)4194

Method: segmented sandwich membrane ISE.

Phosphonic acid diethyl ester derivative: K1=22.7

Polymer Albumin (3526)

Albumin;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ oth none 20°C 0.10M U 2000TZa (108065)4195

K1eff=4.56

K2eff=4.56

K3eff=4.40

Method: equilibrium dialysis at physiological pH (7.43).

Cd++ vlt KCl 25°C 0.15M U 1952TAa (108066)4196

K1(imidazole)=2.8(bovine)

Metal: CdCl+

Polymer HL Alginic acid CAS 9005-32-7 (7750)

Alginic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ vlt KNO3 25°C 0.01M C I 1991NAb (108069)4197

K1eff=4.0

Methods: DPP and DPASV. K1eff values in range 4.0 to 4.2.

Medium: 0.006 M KNO3. Also data for 0.004-0.02 M KNO3.

Polymer (1526)

Bovine serum albumin protein

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ oth none 20°C 0.10M U 2000TZa (108101)4198
 K1eff=4.70
 K2eff=4.68
 K3eff=4.56

Method: equilibrium dialysis at physiological pH (7.43).

 Cd++ sp KCl 25°C var U 1998BCa (108102)4199
 Method: cd spec. at pH 7.4. Relative stability constants, K(Cu)/K(Cd)=39
 For human s.a.=21; for porcine s.a.=2.2

 Polymer CPA CAS 11075-17-5 (1758)
 Carboxypeptidase A

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	oth	NaCl	4°C	1.0M	U			1961VWa (108111)4200	

K(Cd+HxL=CdHyL+(x-y)H)=10.8

Medium: 0.05 M tris buffer pH 8

 Polymer DNA (4185)
 Deoxyribonucleic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.05M	C			1990SEb (108133)4201	

K1eff=3.84
 B2eff=6.52

Method: cyclic voltammetry. Medium: 0.05 M NaNO3, 0.001 M acetate, pH 5.9.

 Polymer Fulvic acid (1523)
 Fulvic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.01M	U	I	K1=5.7 Beff(Cd2L)=9.8 Beff(Cd3L)=14.0	1978BPb (108174)4202	

Data for pH5.7. At pH 6.7, K1eff=5.6, Beff(Cd2L)=10.6, Beff(Cd3L)=15.5
 At pH7.7, K1eff=6.0, Beff(Cd2L)=10.7, Beff(Cd3L)=15.4

 Polymer Gelatin (4187)
 Gelatin

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.15M	U			1965MMb (108193)4203	

K(carboxyl)=1.76
 By dialysis:K(carboxyl)=1.96. See reference for definition

Cd++	vlt	oth/un	25°C	0.10M	U			1963MSe (108194)4204	
------	-----	--------	------	-------	---	--	--	----------------------	--

K(imidazole)=3.03

See reference for definition

Polymer Globulin (3528)

Globulin;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ kin NaCl 27°C 0.20M U K1=3.60 1991YMa (108200)4205

Polymer Humic acid (1524)

Humic acid;

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ ISE oth/un 25°C 0.03M U 2000SMe (108231)4206

K1eff=4.55 (pH 5.3)

K2eff=3.27 (pH 5.3)

Method: Cd ISE. Medium: 0.03 M acetate buffer.

Cd++ cal oth/un 25°C 0.05M C IH 1998BHb (108232)4207
Medium: 0.05 M Tris buffer, pH 9.61. DH(K1eff)=5.33 kJ mol⁻¹.

Cd++ vlt KNO3 25°C 0.02M U 1994PMa (108233)4208
Keff(av.)=4.8-2.9

Method: normal- and reverse-pulse polarography. pH=5; C[L]=5x10⁻⁴ M;
C[M]=(0.05-1)x10⁻⁴ M. Humic acid from Irish moss peat

Cd++ vlt KNO3 25°C 0.10M U I K1=4.80 1993HLb (108234)4209

Method: diff. pulse anodic stripping with Fluka Humic acid. Aldrich HA: 5.09
Roth HA: 4.98. At I=0.03: K1=5.16, 5.31, 5.10. At I=0.01: 5.21, 5.54, 5.43

Cd++ gl KNO3 25°C 0.10M U I K1=4.9 1979WPa (108235)4210
Keff(Cd+HnL)=5.3 at pH 6
Keff(2Cd+HnL)=9.2 at pH 6
Keff(3Cd+HnL)=13.7 at pH 6
Keff(Cd+HnL)=5.9 at pH 7

B(2Cd+HnL)=10.6 at pH7; B(3Cd+HnL)=15.7 at pH7; B(Cd+HnL)=6.3 at pH7.5

B(2Cd+HnL)=11.7 at pH7.5, B(3Cd+HnL)=16.5 at pH7.5 (K1 measured at pH 5.5)

Polymer (7100)

Poly-L-cysteine, Poly-(2-amino-3-mercaptopropanoic acid);

Metal Mtd Medium Temp Conc Cal Flags Lg K values Reference ExptNo

Cd++ sp none 22°C 0 U 1995AHa (108280)4211

K1eff=8.0

K1 at pH 10.0, I=0.015 M

Polymer HL (3531)

Polyacrylic acid;

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  KNO3   25°C 0.10M U          K1=3.2   B2= 6.10  200MMa (108320)4212
Ligand: cross-linked polyacrylic acid, Aquakeep.
-----
```

```
-----
Cd++      gl  NaNO3   25°C 0.10M U          K1eff=3.1
                                         K2eff=3.0
Medium: pH 4.0 for K1eff, 4.6 for K2 eff. [L]/[M]=6.4
-----
```

```
-----
Cd++      vlt KNO3   25°C 0.10M C          K1eff=5.3-6.3
                                         K1eff=5.3-6.3
Method: differential pulse anodic stripping voltammetry. Assumed intrinsic
protonation constant, K(H+L)=4.7.
-----
```

```
*****
Polymer                                     (4195)
Polyethylene and maleic anhydridecopolymer (1:1)
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  oth/un 25°C 0.0 U          K'=9.33
                                         K'=9.33
-----
```

```
*****
Polymer                                     (7149)
Polygalacturonic acid; (C6H8O6)n
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      gl  oth/un 20°C 1.00M U          K1=3.93
                                         K1=3.93
-----
```

```
-----
Cd++      vlt KNO3   25°C 0.01M C I          K1eff=4.0
                                         K1eff=4.0
Methods: DPP and DPASV. K1eff values in range 4.0 to 4.3
Medium: 0.008 M KNO3. Also data for 0.004-0.02 M KNO3.
-----
```

```
*****
Polymer                                     (6896)
Polymaleic acid-methacrylic acid copolymer; (-C4H2O3.CH2.C(CH3)COOH-)n
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++      dis NaCl   25°C 0.10M U          K1eff=5.3
                                         K1eff=5.3
-----
```

Method: dialysis; pH=8 [Cd]=0.00005 M

```
*****
Polymer                                     (1642)
Polymethacrylic acid;
-----
```

```
-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
```

 Cd++ ISE oth/un 25°C 0.03M U 2000SMe (108366)4219
 K1eff=3.5 (pH 5.3)
 Method: Cd ISE. Medium: 0.03 M acetate buffer.

Cd++ vlt KNO3 25°C 0.10M U I K1=4.81 1993HLb (108367)4220
 K1=5.74 (I=0.03); 5.91 (I=0.01); 6.25 (I=0.003).
 Method: differential pulse anodic stripping voltammetry.

Cd++ vlt KNO3 25°C 0.01M U 1992DEb (108368)4221
 K1eff=6.04

Cd++ vlt KNO3 25°C 0.10M C 1991DAb (108369)4222
 K1eff=4.9-5.1
 Method: differential pulse anodic stripping voltammetry. Assumed intrinsic
 protonation constant, K(H+L)=4.9.

Cd++ vlt KNO3 25°C 0.10M U 1990ECa (108370)4223
 Keff=3.6
 Binding to partially neutralised (0.6, 0.7, 0.8) PMA

Cd++ gl NaNO3 20°C 0.05M U 1964MLa (108371)4224
 *K'=-4.4

See reference for definitions

Polymer H5L (6715)
 ProTyrLysCysProGluCysGlyLysSerPheSerGlnLysSerAspLeuValLysHisGlnArgThrHisThr

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	sp	NaCl	25°C	0.05M	U			Keff(Cd+L)=8.70	1993KMa (108389)	4225

Data also for ...HisGlnArgThrCysThrGly and ...CysGlnArgThrCysThrGly

Polymer (4203)
 Procarboxypeptidase;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	oth	NaCl	4°C	1.0M	U			K1=8.4	1967PVa (108395)	4226

 Method: dialysis

REFERENCES

- 2005ACa R Alieva,F Chyrarov et al; Zh.Neorg.Khim.,50,137 (2005)
- 2004ACa R Alieva,F Chyrarov,K Makhmudov; Zh.Neorg.Khim.,49,1577 (2004)
- 2004ACb R Alieva,F Chyrarov,I Babamly et al.; Zh.Neorg.Khim.,49,1580 (2004)
- 2004ADa G Ambrosi,P Dapporto,V Fusi; J.Chem.Soc.,Dalton Trans.,3468 (2004)
- 2004BBa C Bazzicalupi,A Bencini,E Berni; J.Chem.Soc.,Dalton Trans.,591 (2004)
- 2004BBd A Bencini,E Berni,A Bianchi,F Pina; J.Chem.Soc.,Dalton Trans.,2180

- (2004)
2004BBE A Blake,A Bencini,V Lippolis,C Wilson; J.Chem.Soc.,Dalton Trans.,2771
- (2004)
2004CCa U Cakir,B Cicek; Transition Met.Chem.,29,263 (2004)
2004CCb X Cui,H Carapuca,R Delgado; J.Chem.Soc.,Dalton Trans.,1743 (2004)
2004DMb S Del Piero,A Melchior,M Tolazzi; J.Chem.Soc.,Dalton Trans.,1358 (2004)
2004FBa E Farkas,D Batka,Z Pataki; J.Chem.Soc.,Dalton Trans.,1248 (2004)
2004FRa M Fainerman-Melnikova,G Rounaghi; J.Chem.Soc.,Dalton Trans.,122 (2004)
2004GMc S Gadzhieva,K Makhmudov; Zh.Neorg.Khim.,49,1397 (2004)
2004LBa L Lomozik,R Bregier-Jarzebowska; J.Coord.Chem.,57,1251 (2004)
2004MFa P Marcos,S Felix,J Ascenso,M Segurado; New J.Chem.,28,748 (2004)
2004PFa J Price,M Fainerman-Melnikova,F Lindoy; J.Chem.Soc.,Dalton Trans.,3715
- (2004)
2004PLa S Plush, S Lincoln, K Wainwright; J.Chem.Soc.,Dalton Trans.,1410 (2004)
2004TAa Z Talebpour,N Alizadeh,M Shamsipur; J.Inclusion Phenom.,49,101 (2004)
2003AFa G Ambrosia,M Formica,V Fusi,M Micheloni; Polyhedron,22,1135 (2003)
2003AFb G Ambrosia,M Formica,V Fusi,M Micheloni; Inorg.Chim.Acta,356,203 (2003)
2003AHA I Ahmed; J.Chem.Eng.Data,48,272 (2003)
2003BSa E Bianchi,S Sajadi,B Song,H Sigel; Chem.Eur.J.,9,881 (2003)
2003CAa A Costero,M Aurell,M Banuls,L Ochando; J.Inclusion Phenom.,45,241 (2003)
2003CCb X Cui,M Cabral,J Costa,R Delgado; Inorg.Chim.Acta,356,133 (2003)
2003CMA I Cukrowsky,N Maseko; Electroanalysis,15,1377 (2003)
2003CPa S Creaser,S Pyke,S Lincoln; Aust.J.Chem.,56,61 (2003)
2003FHa A Fernandez-Botello,A Holy,H Sigel; Polyhedron,22,1067 (2003)
2003KDa H Keypour,M Dehdari,S Salezadeh; Transition Met.Chem.,28,425 (2003)
2003KPa K Kilian,K Pyrzynska; Talanta,60,669 (2003)
2003LBa L Lomozik,R Bregier-Jarzebowska; J.Coord.Chem.,56,203 (2003)
2003MGa E Malinowska,L Gorski,D Wojciechowska; New J.Chem.,27,1440 (2003)
2003MYc A Merce,L Yano,M Khan,G Bouet; J.Solution Chem.,32,1075 (2003)
2003OHa S Oshima,N Hirayama,K Kubono,T Honjo; Talanta,59,867 (2003)
2003SBb J Swiatek-Kozlowska,J Brasun,A Dobosz; J.Inorg.Biochem.,93,119 (2003)
2003SSa M Salonen,H Saarinen,M Orama; J.Coord.Chem.,56,1041 (2003)
2002AAa M Aragoni,M Arca,F Demartin,V Lippolis; Inorg.Chem.,41,6623 (2002)
2002BBf A Bencini,A Bianchi,P Fornasari,C Giorgi; Polyhedron,21,1329 (2002)
2002CDc G Crisponi,A Diaz,V Nurchi,T Pivetta; Polyhedron,21,1319 (2002)
2002DCb R Delgado,M Cabral,R Castanheira,A Zhang; Polyhedron,21,2265 (2002)
2002FBa R Ferrari,S Bernes,L Gasque; Inorg.Chim.Acta,339,193 (2002)
2002FGa R Fenton,R Gauci,P Junk,L Lindoy,J Price; J.Chem.Soc.,Dalton Trans.,2185
- (2002)
2002FGb A Fernandez-Botello,R Gomez-Coca,H Sigel; Inorg.Chim.Acta,331,109 (2002)
2002FGc M Formica,L Giorgi,V Fusi,M Micheloni; Polyhedron,21,1351 (2002)
2002GMA J Gao,A Martell,J Reibespies; Inorg.Chim.Acta,329,122 (2002)
2002GSa B Garg,R Sharma,R Shrestha,S Mittal; Indian J.Chem.,41A,1625 (2002)
2002HTa N Hirayama,J Taga,S Oshima,T Honjo; Anal.Chim.Acta,466,295 (2002)
2002HTb L Herrero,A Terron-Homar; Inorg.Chim.Acta,339,233 (2002)
2002ISa V Ijeri,A Srivastava; J.Chem.Eng.Data,47,346 (2002)
2002KAb J Kim,T Ahn,M Lee,A Leong,L Lindoy; J.Chem.Soc.,Dalton Trans.,3993
- (2002)
2002KMb D Kong,J Mao,A Martell,A Clearfield; Inorg.Chim.Acta,338,78 (2002)
2002KSb L Kapinos,H Sigel; Inorg.Chim.Acta,337,131 (2002)

2002Mwa H Mohamed,H Wadood,O Farghaly; J.Pharm.Biomed.Anal.,28,819 (2002)
2002SFa M Saladini,E Ferrari,L Menabue; J.Inorg.Biochem.,92,121 (2002)
2002SMc M Saladini,L Menabue,E Ferrari; J.Inorg.Biochem.,88,61 (2002)
2002TBa L Tei,A Blake,A Bencini,M Schroder; Inorg.Chim.Acta,337,59 (2002)
2002WHa G Wei,T Hambley,G Lawrence et al.; Aust.J.Chem.,55,667 (2002)
2002YPC V Yam,Y Pui,K Cheung,N Zhu; New J.Chem.,26,536 (2002)
2001ABa P Arranz,C Bazzicalupi,A Bencini; Inorg.Chem.,40,6383 (2001)
2001AMa M Ayati,H Madsen; J.Chem.Eng.Data,46,113 (2001)
2001BCe H Buschmann,E Cleve,K Jansen; Anal.Chim.Acta,437,157 (2001)
2001BFa A Bencini,M Formica,V Fusi,M Micheloni; Inorg.Chim.Acta,318,152 (2001)
2001CDb J Costa,R Delgado,M Duarte,V Felix; Supramol.Chem.,13,333 (2001)
2001CGd C Comuzzi,M Grespan,A Melchior,M Tolazzi; Eur.J.Inorg.Chem.,3087 (2001)
2001CKb A Crouch,L Khotseng,M Polhuis; Anal.Chim.Acta,448,231 (2001)
2001CNa I Cukrowsky,G Ngigi; Electroanalysis,13,1242 (2001)
2001DSa W Duan,K Satoh,K Sawada; Bull.Chem.Soc.Jpn.,74,487 (2001)
2001FLa R Fenton,L Lindoy,R Luckay; Australian J.Chem.,54,59 (2001)
2001GLb V Gramlich,P Lubal,S Musso,G Anderegg; Helv.Chim.Acta,84,623 (2001)
2001KGa K Kurdziel,T Glowiak,J Jezierska; Polyhedron,20,3307 (2001)
2001KLB A Krezel,W Lesniak,P Mlynarz,W Bal; J.Inorg.Biochem.,84,77 (2001)
2001KSa D Kuppert,J Sander,K Hegetschweiler; Eur.J.Inorg.Chem.,2525 (2001)
2001KSb T Kitano,Y Sohrin,Y Hata,H Kawakami; J.Chem.Soc.,Dalton Trans.,3564
(2001)
2001KZa E Kharkhaneei,M Zebarjadian,M Shamsipur; J.Solution Chem.,30,323 (2001)
2001LIa S Lee,R Izatt,X Zhang; Inorg.Chim.Acta,317,174 (2001)
2001MEa G Mohamed,N El-Gamel,F Teixidor; Polyhedron,20,2689 (2001)
2001MRa Z Monsef,G Rounaghi,A Sarafranz; J.Inclusion Phenom.,39,321 (2001)
2001MTa I Molinou,N Tsierkezos; J.Chem.Eng.Data,46,1399 (2001)
2001MTb A Matilla,J Tercero,C Valenzuela; J.Solution Chem.,30,549 (2001)
2001OHb S Oshima,N Hirayama,K Kubono,H Kokusen; Anal.Chim.Acta,441,157 (2001)
2001PGa F Pina,E Garcia-Espana,S Luis; Eur.J.Inorg.Chem.,405 (2001)
2001PRa K Popov,H Ronkkomaki,L Lajunen; Pure & Appl.Chem.,73,1641 (2001)
2001SBc H Sigel,E Bianchi,N Corfu,B Martin; Chem.Eur.J.,7,3729 (2001)
2001SEa J Sanchiz,P Esparza,A Mederos; J.Chem.Soc.,Dalton Trans.,1559 (2001)
2001SGd P Singh,B Garg,D Kumar,B Singh; Indian J.Chem.,40A,1339 (2001)
2001SGe P Sharma,D Goel,S Mittal,S Sindhwani; Indian J.Chem.,40A,616 (2001)
2001SKd I Shehatta,I Kenawy,A Askalany,A Hassan; Can.J.Chem.,79,42 (2001)
2001SSd P Sharma,B Swaika,S Mittal,S Sindhwani; Indian J.Chem.,40A,1076 (2001)
2001SZb M Shamsipur,J Zolgharein; J.Inclusion Phenom.,40,41 (2001)
2001WKa J Wang,D Kong,A Martell; Inorg.Chim.Acta,324,194 (2001)
2001WMa J Wang,A Martell,R Motikaitis; Inorg.Chim.Acta,322,47 (2001)
2001ZGa X Zhang,W Guan,J Sun,Q Liu; J.Solution Chem.,30,751 (2001)
2000ANA V Athawale,S Nerkar; Monatsh.Chem.,131,267 (2000)
2000BBc A Bencini,A Bianchi,P Paoletti; Inorg.Chim.Acta,300/302,653 (2000)
2000BBf C Bazzicalupi,P Bandyopadhyay,A Bianchi; Eur.J.Inorg.Chem.,2111 (2000)
2000BPb P Benezeth,D Palmer; Chem.Geol.,167,11 (2000)
2000CCe P Chakrawarti,M Chakrawarti,P Maini; J.Indian Chem.Soc.,77,217 (2000)
2000CDd M Cabral,R Delgado,M Duarte; Helv.Chim.Acta,83,702 (2000)
2000CMA A Costero,E Monrabal,C Andreu; J.Chem.Soc.,Dalton Trans.,361 (2000)
2000FFa M Formica,V Fusi,M Micheloni; Polyhedron,19,2501 (2000)
2000GKa R Gomez-Coca,L Kapinos,H Sigel; J.Chem.Soc.,Dalton Trans.,2077 (2000)

2000KAa Y Kanekiyo, S Aizawa, S Funahashi; *Inorg.Chim.Acta*, 298, 154 (2000)
2000KAb M Khalil, A Attia; *J.Chem.Eng.Data*, 45, 1108 (2000)
2000KGa K Kurdziel, T Glowiak, J Jezierska; *J.Chem.Soc., Dalton Trans.*, 1095 (2000)
2000KHa M Khalil; *J.Chem.Eng.Data*, 45, 70 (2000)
2000KLb G Kampf, M Luth, J Mueller et al; *Z.Naturforsch.*, 55B, 1141 (2000)
2000KTa S Katsuta, F Tsuchiya, Y Takeda; *Talanta*, 51, 637 (2000)
2000KYa M Komiya, S Yoshida, S Ishiguro; *J.Solution Chem.*, 29, 165 (2000)
2000LKc I Lazar, R Kiraly, Z Takacs; *J.Coord.Chem.*, 51, 293 (2000)
2000LTa G Luther, S Theberge, D Rickard; *Talanta*, 51, 11 (2000)
2000MLa G Malandrinos, M Louloudi, A Koukkou; *J.Biol.Inorg.Chem.*, 5, 218 (2000)
2000Mma C Morlay, Y Mougnot, M Cromer; *Can.J.Chem.*, 78, 1637 (2000)
2000PSa M Peters, L Siegfried, T Kaden; *J.Chem.Soc., Dalton Trans.*, 4664 (2000)
2000PSb J Pauly, J Sander, K Hegetschweiler; *Chem.Eur.J.*, 6, 2830 (2000)
2000RCb G Rounaghi, M Chamsaz, E Chiamati; *Zh.Obshch.Khim.* 70, 1449 (2000)
2000RCc G Rounaghi, M Chamsaz, A Nezhadali; *J.Inclusion Phenom.*, 38, 153 (2000)
2000Rka J Rohovec, M Kyvala, I Lukes; *Eur.J.Inorg.Chem.*, 195 (2000)
2000SDa K Sawada, W Duan, M Ono, K Satoh; *J.Chem.Soc., Dalton Trans.*, 919 (2000)
2000Sia M Saladini, D Iacopino, L Menabue; *J.Inorg.Biochem.*, 78, 355 (2000)
2000Smd M Shamsipur, T Madrakian; *Polyhedron*, 19, 1681 (2000)
2000Sme R Serra, F Mas, J Diaz-Cruz, C Arino; *Electroanalysis*, 12, 60 (2000)
2000SMg M Shamsipur, T Madrakian; *J.Coord.Chem.*, 52, 139 (2000)
2000SMi G Shangguan, A Martell, Z Zhang; *Inorg.Chim.Acta*, 299, 47 (2000)
2000SSd S Singh, R Singh, P Babbar, U Singh; *Transition Met.Chem.*, 25, 9 (2000)
2000TBa L Tei, A Blake, M Schroder; *J.Chem.Soc., Dalton Trans.*, 4122 (2000)
2000Tma N Tsierkezos, I Molinou; *J.Chem.Eng.Data*, 45, 819 (2000)
2000Tza C-Q Tu, H-Z Zhang, H Liang; *Acta Chimica Sinica*, 58, 229 (2000)
2000Vgc M Vairavamurthy, W Goldenburg, S Ouyang; *Marine Chem.*, 70, 181 (2000)
2000Xea W Xu, R Evilia; *Inorg.Chim.Acta*, 308, 103 (2000)
2000Zkb X Zhang, K Krakowiak, J Bradshaw, R Izatt; *Ind.Eng.Chem.Res.*, 39, 3516 (2000)
1999AVb R Al-Farawati, C Van den Berg; *Marine Chem.*, 63, 331 (1999)
1999Bba C Bazzicalupi, A Bencini, A Bianchi; *J.Chem.Soc., Dalton Trans.*, 1101 (1999)
1999BBc A Bobrowski, A Bond, S Ellis; *Inorg.Chim.Acta*, 293, 223 (1999)
1999BHb C Blindauer, A Holy, H Sigel; *Coll.Czech.Chem.Comm.*, 64, 613 (1999)
1999Bma M Borsari, L Menabue, M Saladini; *Polyhedron*, 18, 1983 (1999)
1999BSa C Blindauer, T Sjastad, E Sletten, H Sigel; *J.Chem.Soc., Dalton Trans.*, 3661 (1999)
1999Cda J Costa, R Delgado, M Drew, V Felix; *J.Chem.Soc., Dalton Trans.*, 4331 (1999)
1999CPa A Ceresa, E Pretsch; *Anal.Chim.Acta*, 395, 41 (1999)
1999CUa I Cukrowski; *Electroanalysis*, 11, 606 (1999)
1999Cza I Cukrowski, J Zeevaart, N Jarvis; *Anal.Chim.Acta*, 379, 217 (1999)
1999Dwa P Davies, K Wainwright; *Inorg.Chim.Acta*, 294, 103 (1999)
1999FTa M Filella, R Town, M Burgarin; *J.Chem.Eng.Data*, 44, 1009 (1999)
1999GAa M Ghandour, E Aboul-Kasim, A Amrallah; *J.Indian Chem.Soc.*, 76, 480 (1999)
1999Ksa L Kapinos, H Sigel; *Eur.J.Inorg.Chem.*, 1781 (1999)
1999Lba L Lomozik, R Bregier-Jarzebowska; *Pol.J.Chem.* 73, 940 (1999)
1999LLa P Letkeman, L Letkeman, R Motekaitis et al; *J.Coord.Chem.*, 47, 381 (1999)
1999Mca C Morlay, M Cromer, Y Mougnot; *Talanta*, 48, 1159 (1999)
1999Mfa D Marji, S Fraihat; *J.Inclusion Phenom.*, 33, 99 (1999)
1999Mga J Mihalick, W Griffiths, J Muten; *J.Solution Chem.*, 28, 1019 (1999)
1999Mtc G Mugalova, F Tchyragov, D Gambarov; *Zh.Neorg.Khim.* 44, 74 (1999)

1999RPa K Raouf-Benchekroun,C Picard,P Tisnes; J.Inclusion Phenom.,34,277 (1999)
1999SAa O Sorokina, V Alekseev, I Gorelov; Zh.Obshch.Khim.,69,464 (1999)
1999SSa S Sajadi,B Song,H Sigel; Inorg.Chem.,38,439 (1999)
1999TMa Y Takeda,Y Mochizuki,M Tanaka,Y Kudo; J.Inclusion Phenom.,33,217 (1999)
1999WKa M Weber,D Kuppert,K Hegetschweiler; Inorg.Chem.,38,859 (1999)
1999WTa F Wang,A Tessier; Environ.Sci.Technol.,33,4270 (1999)
1998AAa A Amrallah,N Abdalla,E El-Haty; Talanta,46,491 (1998)
1998ABc R Addleman,J Bennett,S Tweedy; Talanta,46,573 (1998)
1998ABf I Atkinson,K Byriel,P Chia,L Lindoy; Australian J.Chem.,51,985 (1998)
1998ALa P Arranz-Mascaros,R Lopez-Garzon; Transition Met.Chem.,23,501 (1998)
1998BBb C Bazzicalupi,A Bencini,M Micheloni; Inorg.Chim.Acta,268,63 (1998)
1998BCa W Bal,J Christodoulou,P Sadler,A Tucker; J.Inorg.Biochem.,70,33 (1998)
1998BFb E Bottari,M Festa; Talanta,46,91 (1998)
1998BHb N Bryan,N Hesketh,F Livens; J.Chem.Soc.,Faraday Trans.,94,95 (1998)
1998CCc S Canepari,P Castellano,B Fazio et al; Ann.Chim.(Rome),88,35 (1998)
1998CCd S Chaves,A Cerva,R Delgado; Polyhedron,17,93 (1998)
1998CCf E Cukrowska,I Cukrowski; Talanta,47,1175 (1998)
1998CLa I Cukrowski,S Loader; Electroanalysis,10,877 (1998)
1998DDa A Damsyik,P Davies,C Keeble,M Taylor; J.Chem.Soc.,Dalton Trans.,703
(1998)
1998DLa C Davis,A Leong,L Lindoy; Australian J.Chem.,51,189 (1998)
1998DTa A Danil de Namor,D Tanaka; J.Chem.Soc.,Faraday Trans.,94,3105 (1998)
1998GRa M Ganjali,A Rouhollahi,M Shamsipur; J.Chem.Soc.,Faraday Trans.,94,1959
(1998)
1998IHb M Islam,P Hambright; Transition Met.Chem.,23,727 (1998)
1998JKb A Jain,F Khan; J.Indian Chem.Soc.,75,31 (1998)
1998KLC V Kublanovskii,K Litovchenko,V Nikitenko; Pol.J.Chem.72,2556 (1998)
1998Ksa L Kapinos,B Song,H Sigel; Inorg.Chim.Acta,280,50 (1998)
1998Ksd L Kapinos,B Song,H Sigel; Z.Naturforsch.,53B,903 (1998)
1998Lba J Lloris,A Benito,R Martinez-Manez; Helv.Chim.Acta,81,2024 (1998)
1998LSa S Ledenkov,V Sharnin,V Shormanov; Zh.Neorg.Khim.43(2)344 (1998)
1998LYa Y-S Zhang,H-K Lin,Z-M Wang; Acta Chimica Sinica,56,1048 (1998)
1998PGc F Pina,E Garcia-Espana,S Luis; Inorg.Chem.,37,3935 (1998)
1998RPa M Ridley,D Palmer,D Wesolowski; J.Solution Chem., 27,195 (1998)
1998SGc Sigit,G Goetz-Grandmont,J Brunette; Monatsh.Chem.,129,787 (1998)
1998TDa M Torres,J Diaz-Cruz,C Arino; Anal.Chim.Acta,371,23 (1998)
1998YGa A Yatsimirsky,P Gomez-Tagle; Inorg.Chim.Acta,273,167 (1998)
1998ZMa A Zimmer,I Muller,K Hegetschweiler; Eur.J.Inorg.Chem.,2079 (1998)
1998Zwa Y-S Zhang,Z-M Wang,H-K Lin,S-R Zhu; Chem.J.of Chin.Univ.,19,1992 (1998)
1997AAb A Amrallah,N Abdalla,E El-Haty; Monatsh.Chem.,128,1073 (1997)
1997BCc H-J Buschmann,E Cleve,E Schollmeyer; J.Coord.Chem.,42,127 (1997)
1997BFa E Bottari,M Festa; Talanta,44,1705 (1997)
1997BLd Y Baran,G Lawrance,E Wilkes; Polyhedron,16,599 (1997)
1997BPa A Bahta,G Parker,D Tuck; Pure & Appl.Chem.,69,1489 (1997)
1997CCa S Chaves,A Cerva,R Delgado; J.Chem.Soc.,Dalton Trans.,4181 (1997)
1997CDb J Costa,R Delgado,M Figueira; J.Chem.Soc.,Dalton Trans.,65 (1997)
1997CUa I Cukrowski; Electroanalysis,9,1167 (1997)
1997CUB I Cukrowski; Analyst,122,827 (1997)
1997DBa K Davarski,P Berberova et al; Zh.Obshch.Khim.,67,7 (1997)
1997DBb V Deluchat,J-C Bollinger et al; Talanta 44,897 (1997)

- 1997DFc C Daughney, J Fein; *Geochim.Cosmo.Acta*,61,719 (1997)
1997DHa A De Sousa, R Hancock, J Reibenspies; *J.Chem.Soc., Dalton Trans.*,939 (1997)
1997DQa R Delgado, S Quintino, M Teixeira; *J.Chem.Soc., Dalton Trans.*,55 (1997)
1997FEb A Frutos, G Escandar, J Peregrin; *Can.J.Chem.*,75,405 (1997)
1997GCa C Gerard, H Chehhal; *Bull.Soc.Chim.Fr.*,134,1069 (1997)
1997GHc C Gonzalez, M Hernandez-Padilla, A Mederos; *Polyhedron*,16,2925 (1997)
1997HIb N Hirayama, S Iimuro, K Kubono; *Anal.Chim.Acta*,339,115 (1997)
1997HMa R Hernandez-Molina, A Mederos et al; *Inorg.Chim.Acta*,256,319 (1997)
1997HMc R Hernandez-Molina, A Mederos, P Gili; *Polyhedron*,16,4191 (1997)
1997HRa K Hendrickson, T Rodopoulos, P Pittet; *J.Chem.Soc., Dalton Trans.*,3879 (1997)
1997HVa M Halli, H Veerabhadraswamy, A Hiremath; *J.Indian Chem.Soc.*,74,332 (1997)
1997IMa M Inoue, L Machi, M Inoue et al; *Inorg.Chim.Acta*,261,59 (1997)
1997IMb N Ibenoubi, A Manihar, N Rajmuhon; *J.Indian Chem.Soc.*,74,793 (1997)
1997KKb F Khan, F Khan; *J.Indian Chem.Soc.*,74,171 (1997)
1997KVa T Kowalik-Jankowska, K Varnagy et al.; *J.Inorg.Biochem.*,65,257 (1997)
1997NGa S Naikovskii, E Gorenich; *Zh.Neorg.Khim.*,42,1214 (1997)
1997PJa A Patel, J Joshi; *J.Indian Chem.Soc.*,74,222 (1997)
1997RPC G Rao, R Panganoori, K Ram; *J.Indian Chem.Soc.*,74,94 (1997)
1997RWa S Rahardjo, K Wainwright; *Inorg.Chim.Acta*,255,29 (1997)
1997SHA A De Sousa, R Hancock, J Reibenspies; *J.Chem.Soc., Dalton Trans.*,2831 (1997)
1997SJa S Sjoberg; *Pure & Appl.Chem.*,69,1549 (1997)
1997SNa T Sekine, I Ninomiya, M Tebakari; *Bull.Chem.Soc.Jpn.*,70,1385 (1997)
1997SSg R Sigel, B Song, H Sigel; *J.Am.Chem.Soc.*,119,744 (1997)
1997TIa M Tabata, H Ishimi; *Bull.Chem.Soc.Jpn.*,70,1353 (1997)
1997USa P Upadhyaya, M Singh, R Vimal, R Nayan; *J.Indian Chem.Soc.*,74,367 (1997)
1997VZa V Vasil'ev, G Zaitseva, N Tukumova; *Zh.Neorg.Khim.*,42,229 (1997)
1997Wta J Weeks, M Taylor, K Wainwright; *J.Chem.Soc., Dalton Trans.*,317 (1997)
1996AAb R Abidi, F Arnaud-Neu, M Drew, J Nelson; *J.Chem.Soc., Perkin Trans.II*,2747 (1996)
1996AAa R Abidi, F Arnaud-Neu, M Drew, J Nelson; *J.Chem.Soc., Perkin Trans.II*,2747 (1996)
1996ADc U Avciata, N Demirhan, M Teker; *J.Inclusion Phenom.*,26,27 (1996)
1996AEa I Ahmed, O El-Roudi, A Boraie; *J.Chem.Eng.Data*,41,386 (1996)
1996BBa A Bencini, A Bianchi, C Giorgi et al; *Inorg.Chem.*,35,1114 (1996)
1996BBh C Bazzicalupi, A Bancini, A Bianchi; *Inorg.Chim.Acta*,246,125 (1996)
1996BCc J Boeyens, L Cook, P Duckworth; *Inorg.Chim.Acta*,246,321 (1996)
1996BFa E Bottari, M Festa; *Chem.Speciation and Bioavail.*,8,75 (1996)
1996BJa L Burai, S Jakab, R Kiraly, I Lazar, I Toth; *J.Chem.Soc., Dalton Trans.*,1113 (1996)
1996Cha I Cukrowski, R Hancock, R Luckay; *Anal.Chim.Acta*,319,39 (1996)
1996CSa M Correia dos Santos, M Simoes Goncalves; *Electroanalysis*,8,178 (1996)
1996DHa K Dhont, G Herman, A Fabretti et al; *J.Chem.Soc., Dalton Trans.*,1753 (1996)
1996DTa P Davies, M Taylor et al; *Inorg.Chim.Acta*,246,1 (1996)
1996ESa G Escandar, J Salas Peregrin, L Sala; *Polyhedron*,15,2251 (1996)
1996FJa P Fitzsimmons, S Jackels; *Inorg.Chim.Acta*,246,301 (1996)
1996GCa A Garcia, J Cameselle, F Barros et al; *J.Inorg.Biochem.*,62,57 (1996)
1996GGa B Grabaric, Z Grabaric et al; *Anal.Chim.Acta*,325,135 (1996)
1996Gmb A Gianguzza, F Maggio, S Sammartano; *Chem.Speciation and Bioavail.*,8,17

(1996)

- 1996HTb A Hassaan, F Taha, A El-Roudi; *J. Indian Chem. Soc.*, 73, 325 (1996)
1996IOa M Inoue, P Oram, M Inoue et al; *Inorg. Chim. Acta*, 246, 401 (1996)
1996JLb Y Li, I Murase, J Reibenspies; *Inorg. Chim. Acta*, 246, 89 (1996)
1996KSb M Koide, H Suzuki, S Ishiguro; *J. Solution Chem.*, 25, 1261 (1996)
1996KSc E Khairy, M Shoukry, M Khalil; *Transition Met. Chem.*, 21, 176 (1996)
1996Kwa T Koike, T Watanabe, S Aoki, E Kimura; *J. Am. Chem. Soc.*, 118, 12696 (1996)
1996KYa T Kurisaki, T Yamaguchi, M Fujiwara et al; *J. Chem. Soc., Dalton Trans.*, 3727

(1996)

- 1996LHb R Luckay, R Hancock, I Cukrowski; *Inorg. Chim. Acta*, 246, 159 (1996)
1996LMa Y Li, A Martell, R Hancock et al; *Inorg. Chem.*, 35, 404 (1996)
1996LRb G Luther, D Rickard, S Theberge; *Environ. Sci. Technol.*, 30, 671 (1996)
1996MBb L Miao, D Bell, G Rothremel, S Jackels; *Supramol. Chem.*, 6, 365 (1996)
1996MRb J Mendieta, A Rodriguez; *Electroanalysis*, 8, 473 (1996)
1996SGa S Singh, A Ghose; *J. Indian Chem. Soc.*, 73, 650 (1996)
1996SJa R Sharma, S Joseph; *Indian J. Chem.*, 35A, 639 (1996)
1996SKa M Shoukry, E Khairy, M Mohamed; *Ann. Chim. (Rome)*, 86, 167 (1996)
1996SKb A Siddalingaiah, M Kariduraganavar; *J. Indian Chem. Soc.*, 73, 671 (1996)
1996SMc J Solis, P May, G Hefter; *J. Chem. Soc., Faraday Trans.*, 92, 641 (1996)
1996SSa A Saha, N Saha, L Ji; *J. Biol. Inorg. Chem.*, 1, 231 (1996)
1996SSd H Sigel, B Song; *Met. Ions Biol. Syst.*, 32, 135 (1996)
1996STa H Srivastava, D Tiwari; *J. Chem. Eng. Data*, 41, 821 (1996)
1996TBa J Thompson, M Barr, D Ford et al; *Inorg. Chem.*, 35, 2025 (1996)
1996TBb M Tendero, A Benito, R Martinez-Manez; *J. Chem. Soc., Dalton Trans.*, 4121

(1996)

- 1996TNa M Tabata, J Nishimoto, A Ogata; *Bull. Chem. Soc. Jpn.*, 69, 673 (1996)
1996VBa A Vaidyan, P Bhattacharya; *Indian J. Chem.*, 35A, 839 (1996)
1996VDA J Vaz, G Duc, M Petit-Ramel; *Can. J. Chem.*, 74, 359 (1996)
1995AHa H Autry, J Holcombe; *Analyst*, 120, 2643 (1995)
1995BBc C Bazzicalupi, A Bencini et al; *Inorg. Chem.*, 34, 552 (1995)
1995BBd F Badaoui, J Bourson; *Anal. Chim. Acta*, 302, 341 (1995)
1995BEa G Berthon; *Pure & Appl. Chem.*, 67, 1117 (1995)
1995BGa E Brucher, B Gyora, J Emri, S Jakab et al; *J. Chem. Soc., Dalton Trans.*, 3353

(1995)

- 1995BLa K Bazakas, I Lukes; *J. Chem. Soc., Dalton Trans.*, 1133 (1995)
1995CCb I Cukrowski, E Cucrowska et al; *Anal. Chim. Acta*, 312, 307 (1995)
1995CDc A Casale, A De Robertis, S Sammartano; *Thermochim. Acta*, 255, 109 (1995)
1995CGb A Conceicao, M Goncalves et al; *Anal. Chim. Acta*, 302, 97 (1995)
1995CMA I Cukrowski, F Marsicano, R Hancock et al; *Polyhedron*, 14, 1661 (1995)
1995DFc M Diez, F Barros, C Calahorra; *J. Inorg. Biochem.*, 60, 199 (1995)
1995DSa V Deluchat, B Serpaud, Caullet, J Bollinger; *Phosphorus, Sulfur & Silicon*, 104, 81 (1995)
1995FFa G Feroci, A Fini, G Fazio, P Zuman; *Anal. Chem. (USA)*, 67, 4077 (1995)
1995GSA J Ghasemi, M Shamsipur; *J. Coord. Chem.*, 36, 183 (1995)
1995KSb M Koide, H Suzuki, S Ishiguro; *J. Chem. Soc., Faraday Trans.*, 91, 3851 (1995)
1995LBA S Laurie, R Byrne; *Polyhedron*, 14, 1759 (1995)
1995LBB L Loginova, V Bazilyanskaya; *Anal. Chim. Acta*, 315, 55 (1995)
1995LLa S Lincoln, J Lucas, T Rodopoulos; *Inorg. Chim. Acta*, 237, 147 (1995)
1995LMA Y Li, A Martell; *Inorg. Chim. Acta*, 231, 159 (1995)
1995LWA X-Y Le, F-H Wu, F-Y Song, L-N Ji; *Chem. J. of Chin. Univ.*, 16, 1500 (1995)

1995MHa H Maumela, R Hancock, L Carlton; *J. Am. Chem. Soc.*, 117, 6698 (1995)
1995MWa R Ma, M Welch, J Reibenspies, A Martell; *Inorg. Chim. Acta*, 236, 75 (1995)
1995RRe D Rao, G Reddy, E Ramaiah, K Ram; *Acta Ciencia Indica, Chem.*, 21, 111 (1995)
1995SKc B Sekhon, N Kaur; *J. Indian Chem. Soc.*, 72, 873 (1995)
1995SMb Y Sun, R Motekaitis, A Martell; *J. Coord. Chem.*, 36, 235 (1995)
1995SSe R Sigel, B Song, H Sigel; *J. Inorg. Biochem.*, 59, 293 (1995)
1995STa H Srivastava, D Tiwari; *Indian J. Chem.*, 34A, 550 (1995)
1995TDa M Turonek, P Duckworth et al; *Inorg. Chim. Acta*, 230, 51 (1995)
1994ABa A Andres, C Bazzicalupi, A Bencini et al; *Inorg. Chem.*, 33, 617 (1994)
1994ABd J Aguilar, A Bianchi, E Garcia-Espana; *J. Chem. Soc., Dalton Trans.*, 637
(1994)
1994ACb K Adam, C Clarkson, A Leong et al; *J. Chem. Soc., Dalton Trans.*, 2791 (1994)
1994AGa G Anderegg, V Gramlich; *Helv. Chim. Acta*, 77, 685 (1994)
1994ALb K Adam, L Lindoy, B Skelton et al; *J. Chem. Soc., Dalton Trans.*, 3361 (1994)
1994BBb C Bazzicalupi, A Bencini, A Bianchi et al; *J. Chem. Soc., Dalton Trans.*, 3581
(1994)
1994CDa M Cabral, R Delgado; *Helv. Chim. Acta*, 77, 515 (1994)
1994DMA K Davarski, S Manolov, I Petrova et al; *J. Coord. Chem.*, 33, 75 (1994)
1994HCb R Hancock, I Cukrowski, E Cukrowska; *J. Chem. Soc., Dalton Trans.*, 2679 (1994)
1994HKb M Hirohata, F Kai, P He, K Komori et al; *J. Coord. Chem.*, 31, 237 (1994)
1994IPa M Iuliano, R Porta; *Ann. Chim. (Rome)*, 84, 211 (1994)
1994JBb R Joshi, C Bhandari; *Indian J. Chem.*, 33A, 432 (1994)
1994LLb E Larsen, S Larsen, G Paulsen et al; *Acta Chem. Scand.*, 48, 107 (1994)
1994LSb C Ledenkov, V Sharnin, V Shormanov; *Zh. Neorg. Khim.*, 39, 2028 (1994)
1994MKA H Miyake, N Kato, Y Kojima, A Sugihara; *Inorg. Chim. Acta*, 223, 121 (1994)
1994MMF R Ma, I Murase, A Martell; *Inorg. Chim. Acta*, 223, 109 (1994)
1994MPC M Mimouni, Y Pointud, J Juillard; *Bull. Soc. Chim. Fr.*, 131, 58 (1994)
1994PMA J Pinheiro, A Mota, M Goncalves; *Anal. Chim. Acta*, 284, 525 (1994)
1994RIa W Rudolph, G Irma; *J. Solution Chem.*, 23, 663 (1994)
1994SCa B Song, D Chen, M Bastian, R Martin, H Sigel; *Helv. Chim. Acta*, 77, 1738 (1994)
1994SHc R Sharma; *Monatsh. Chem.*, 125, 267 (1994)
1994SMb H Sigel, S Massoud, N Corfu; *J. Am. Chem. Soc.*, 116, 2958 (1994)
1994VBb A Vaidyan, P Bhattacharya; *Can. J. Chem.*, 72, 1107 (1994)
1994VBC A Vaidyan, P Bhattacharya; *Indian J. Chem.*, 33A, 1003 (1994)
1994WCa J Wang, E Collange, D Aymes et al; *Bull. Soc. Chim. Fr.*, 131, 30 (1994)
1994ZMa J-Z Zhang, F Millero; *Anal. Chim. Acta*, 284, 497 (1994)
1993ALb B Anandam, P Lingaiah; *J. Indian Chem. Soc.*, 70, 8 (1993)
1993BBA A Bencini, A Bianchi, P Dapporto et al; *Inorg. Chem.*, 32, 1204, 2753 (1993)
1993BDd K Byriel, K Dunster, L Gahan et al; *Inorg. Chim. Acta*, 205, 191 (1993)
1993BFa E Bottari, M Festa; *Ann. Chim. (Rome)*, 83, 315 (1993)
1993BGB K Bernauer, F Gretillat et al; *Helv. Chim. Acta*, 76, 545 (1993)
1993CDa J Costa, R Delgado; *Inorg. Chem.*, 32, 5257 (1993)
1993CKa H Cai, T Kaden; *Helv. Chim. Acta*, 76, 557 (1993)
1993DKb R Dodke, F Khan; *J. Indian Chem. Soc.*, 70, 14 (1993)
1993DSa R Delgado, Y Sun, R Motekaitis et al; *Inorg. Chem.*, 32, 3320 (1993)
1993GAa M Ghandour, E Aboul-Kasim, A Amrallah; *J. Indian Chem. Soc.*, 70, 615 (1993)
1993GJa B Garg, V Jain; *J. Indian Chem. Soc.*, 70, 242 (1993)
1993GWA E-J Gao, K Wang, Q-T Liu; *Acta Chimica Sinica*, 51, 646 (1993)
1993HHb K Hegetschweiler, R Hancock et al; *Inorg. Chem.*, 32, 5273 (1993)
1993HKb H Huang, F Kai, M Hirohata, M Nakamura et; *J. Coord. Chem.*, 30, 131 (1993)

1993HKc M Hirohata, F Kai, K Kurosawa, H Huang et; J.Coord.Chem.,30,379 (1993)
1993HLb M van den Hoop, H van Leeuwen; Anal.Chim.Acta,273,275 (1993)
1993JCa L Ji, N Corfu, H Sigel; Inorg.Chim.Acta,206,215 (1993)
1993KHa D Khamdo, T Khanlarov, D Gambarov; Koord.Khim.,19,280 (1993)
1993KKb B Kurzak, D Kroczevska; Transition Met.Chem.,18,295 (1993)
1993KMa B Krizek, D Merkle, J Berg; Inorg.Chem.,32,937 (1993)
1993KMb M Kabachnik, S Matveev et al.; Izv.Akad.Nauk USSR,(7)1276 (1993)
1993MMa R Ma, A Martell; Inorg.Chim.Acta,209,71 (1993)
1993PPa M Patel, N Patel, M Patel, J Joshi; J.Indian Chem.Soc.,70,569 (1993)
1993RAa A Ramadan, M A-Moez et al; Monatsh.Chem.,124,647 (1993)
1993SGb S Strivastava, V Gupta, B Tiwari, I Ali; J.Chromatography,635,111 (1993)
1993SHb M Shoukry; Ann.Chim.(Rome),83,147 (1993)
1993SKa I Sovago, T Kiss, A Gergely; Pure & Appl.Chem.,65,1029 (1993)
1993SKc K Saawada, T Kanda, Y Naganuma, T Suzuki; J.Chem.Soc.,Dalton Trans.,2557
(1993)
1993SPa S Stipp, G Parks et al; Geochim.Cosmo.Acta,57,2699 (1993)
1993SSe K Sawada, Ksato, C Honda et al; J.Chem.Soc.,Dalton Trans.,377 (1993)
1993STb H Srivastava, D Tiwari; J.Indian Chem.Soc.,70,499 (1993)
1993TTa L Tan, M Taylor, K Wainwright et al; J.Chem.Soc.,Dalton Trans.,2921 (1993)
1993VJa M Visic, A Jadric, I Mekjavic; Croat.Chem.Acta,66,489 (1993)
1993WLa D Wambeke, W Lippens, G Herman et al; J.Chem.Soc.,Dalton Trans.,2017
(1993)
1993YDa N Youyou, P Decock, D Blondeau, J Urbanska; J.Coord.Chem.,30,283 (1993)
1993YTa A Yuchi, A Tanaka, M Hirai, T Ysai et al; Bull.Chem.Soc.Jpn.,66,3377
(1993)
1993ZLa F Zhang, Q Liu; J.Coord.Chem.,28,197 (1993)
1993ZLb F Zhang, Q-T Liu; Acta Chimica Sinica,51,251 (1993)
1992ADa M Amorim, R Delgado, J da Silva; Polyhedron,11,1891 (1992)
1992AEa R Abdel-Hamid, M El-Haty; Can.J.Chem.,70,877 (1992)
1992AHa A Avdeef, F Hartenstein et al; Inorg.Chem.,31,3701 (1992)
1992ANb S Azuma, N Nakasuka, M Tanaka; Bull.Chem.Soc.Jpn.,65,2333 (1992)
1992ATa Y Abe, R Takahashi, S Ishiguro, K Ozutsumi; J.Chem.Soc.,Faraday
Trans.,88,1997 (1992)
1992CDa S Chaves, R Delgado, M Duarte et al; J.Chem.Soc.,Dalton Trans.,2579 (1992)
1992CDd S Chaves, R Delgado, J Da Silva; Talanta,39,249 (1992)
1992CLa S Cocks, P Linder, A Voye; J.Coord.Chem.,25,211 (1992)
1992CPa B Castro, J Pereira et al; J.Inorg.Biochem.,45,53 (1992)
1992CPb Y Couturier, C Petitfaux; Bull.Soc.Chim.Fr.,129,335 (1992)
1992CSd M Correia dos Santos, M Simoes Goncalves; Electrochim.Acta,37,1413 (1992)
1992DEb J Dias-Cruz, M Esteban et al; Anal.Chem.(USA),64,1769 (1992)
1992DGa M Diez, F Barros, E Rey, C Calahorro; J.Inorg.Biochem.,48,129 (1992)
1992DHb K Daskalakis, G Helz; Environ.Sci.Technol.,26,2462 (1992)
1992DRb S Dominguez, A Rancel, J Herrera et al; J.Coord.Chem.,25,271 (1992)
1992GAa M Ghandour, H Azab et al; Monatsh.Chem.,123,51 (1992)
1992GBa C Geraldes, E Brucher, S Cortes; J.Chem.Soc.,Dalton Trans.,2517 (1992)
1992GHa S Glab, A Hulanicki; Talanta,39,1555 (1992)
1992GLa F Gaizer, J Lazar, J Kiss, E Poczik; Polyhedron,11,257 (1992)
1992GVa J Gibson, O Vaughan; J.Chem.Soc.,Dalton Trans.,1375 (1992)
1992KIa H Killa; Transition Met.Chem.,17,55 (1992)
1992KJa Y Kinjo, L-N Ji, N Corfu, H Sigel; Inorg.Chem.,31,5588 (1992)

- 1992KSa B Kurzak, J Sychala, J Swiatek; *J. Coord. Chem.*, 25, 95 (1992)
- 1992LBa I Lukes, K Bazakas, P Hermann, P Vojtisek; *J. Chem. Soc., Dalton Trans.*, 939 (1992)
- 1992LCb G Liang, D Chen et al; *J. Am. Chem. Soc.*, 114, 7780 (1992)
- 1992LHb F Lin, C Horvath; *J. Chromatography*, 589, 185 (1992)
- 1992LJb F Lloret, M Julve, J Faus, R Ruiz et al; *Inorg. Chem.*, 31, 784 (1992)
- 1992LPC A Lu, L Pettit et al; *Chem. J. of Chin. Univ.*, 13, 322 (1992)
- 1992LRa I Lazar, R Ramasamy, E Brucher et al; *Inorg. Chim. Acta*, 195, 89 (1992)
- 1992MMA R Motekaitis, A Martell; *Inorg. Chem.*, 31, 11 (1992)
- 1992NEa E Neher-Neumann; *Acta Chem. Scand.*, 46, 231 (1992)
- 1992PPb J Podlahova, J Podlaha; *Coll. Czech. Chem. Comm.*, 47, 1078 (1992)
- 1992RAa M Rao; *J. Inorg. Biochem.*, 46, 207 (1992)
- 1992RAF J Rodriguez Placeres, A Alloza Moreno; *Coll. Czech. Chem. Comm.*, 57, 1811 (1992)
- 1992RKA M Rzepka, J Kulig, B Lenarcik; *Gazz. Chim. Ital.*, 122, 73 (1992)
- 1992RMA G Rothermel, L Miao, A Hill et al; *Inorg. Chem.*, 31, 4854 (1992)
- 1992SCa H Sigel, D Chen et al; *Helv. Chim. Acta*, 75, 2634 (1992)
- 1992UKa J Urbanska, H Kozlowski, B Kurzak; *J. Coord. Chem.*, 25, 149 (1992)
- 1992VBA A Varghese, P Bhattacharya; *J. Inorg. Biochem.*, 46, 223 (1992)
- 1992VDA C V-Calahorro, M D-Diez et al; *Polyhedron*, 11, 563 (1992)
- 1992WLB D Wambeke, W Lippens, G Herman et al; *Polyhedron*, 11, 2989 (1992)
- 1992ZBa M Zelic, M Branica; *Anal. Chim. Acta*, 262, 129, 268, 275 (1992)
- 1992ZBb M Zelic, M Branica; *Electroanalysis*, 4, 701 (1992)
- 1991ABA J Arago, A Bencini, A Bianchi et al; *J. Chem. Soc., Dalton Trans.*, 3077 (1991)
- 1991ACA M Amorim, S Chaves, R Delgado, J da Silva; *J. Chem. Soc., Dalton Trans.*, 3065 (1991)
- 1991ACb A Avdeef, A Chemotti; *J. Chem. Soc., Dalton Trans.*, 1189 (1991)
- 1991BFa N Bailey, D Fenton et al; *J. Chem. Soc., Dalton Trans.*, 627, 1665, 2989 (1991)
- 1991BSc M Bastian, H Sigel; *J. Coord. Chem.*, 23, 137 (1991)
- 1991CAB R Choudhary, H Ali; *J. Indian Chem. Soc.*, 68, 257 (1991)
- 1991DAB J Diaz-Cruz, C Arino, M Esteban; *Electroanalysis*, 3, 299 (1991)
- 1991DCa A de Sousa, G Croft et al; *Inorg. Chem.*, 30, 3525 (1991)
- 1991DGA S Deiana, C Gessa, P Piu, R Seeber; *J. Chem. Soc., Dalton Trans.*, 1237 (1991)
- 1991DHa K Damu, R Hancock, P Wade et al; *J. Chem. Soc., Dalton Trans.*, 293 (1991)
- 1991DLA P Duckworth, S Lincoln, J Lucas; *Inorg. Chim. Acta*, 188, 55 (1991)
- 1991DMA K Damu, H Maumela, R Hancock et al; *J. Chem. Soc., Dalton Trans.*, 2717 (1991)
- 1991FGB F Fronczek, R Gandour, T Fyles; *Can. J. Chem.*, 69, 12 (1991)
- 1991GBb G Gavioli, M Borsari, L Menabue et al; *Inorg. Chem.*, 30, 498 (1991)
- 1991GDb B Garg, R Dixit; *Bull. Soc. Chim. Fr.*, 127, 14 (1991)
- 1991GDc B Garg, R Dixit; *Bull. Soc. Chim. Fr.*, 127, 14 (1991)
- 1991GDe B Garg, R Dixit, N Kiran; *Ann. Chim. (Rome)*, 81, 155 (1991)
- 1991HLA G Hollingshed, G Lawrance, M Maeder; *Polyhedron*, 10, 409 (1991)
- 1991JCa L Ji, N Corfu, H Sigel; *J. Chem. Soc., Dalton Trans.*, 1367 (1991)
- 1991KHa E Konigsberger, R Hausner, H Gamsjager; *Geochim. Cosmo. Acta*, 55, 3505 (1991)
- 1991KMa Y Kinjo, M Maeda; *J. Inorg. Biochem.*, 43, 51 (1991)
- 1991KMD H Killa, E Mabrouk, M Ghoneim; *Bull. Soc. Chim. Fr.*, 127, 44 (1991)
- 1991KMF H Killa, E Mabrouk, M Ghoneim; *Coll. Czech. Chem. Comm.*, 56, 1193 (1991)
- 1991KSa T Kiss, I Sovago, A Gergely; *Pure & Appl. Chem.*, 63, 597 (1991)
- 1991LHa R Luckay, R Hancock; *J. Chem. Soc., Dalton Trans.*, 1491 (1991)
- 1991LSa C Lapp, N Spiess; *J. Inorg. Biochem.*, 42, 257 (1991)

1991LSc I Lazar,A Sherry,R Ramasamy et al; Inorg.Chem.,30,5016 (1991)
1991NAb A Nadal,C Arino,M Esteban; Electroanalysis,3,309 (1991)
1991PSa H Parham,M Shamsipur; J.Electroanal.Chem.,314,71 (1991)
1991RAa G Ruiz Cabrera,A Alloza Moreno; An.Quim.,87,153 (1991)
1991RFa D Rai,A Felmy,D Moore; J.Solution Chem.,20,1169 (1991)
1991RZb R Roy,J Zhang,M Sibblies,F Millero; J.Solution Chem.,20,467 (1991)
1991SMa R Smith,A Martell,Y Chen; Pure & Appl.Chem.,63,1015 (1991)
1991STb R Sindhu,S Tikku,S Bansal; J.Indian Chem.Soc.,68,289 (1991)
1991TMb D Tastanbekov et al; Zh.Neorg.Khim.61,1049 (1991)
1991TSb B Tiwari,R Singh,K Yadava; Bull.Soc.Chim.Fr.,128,141 (1991)
1991TSc B Tiwari,R Singh,V Kumar,K Yadava; J.Chromatography,547,554 (1991)
1991VBA V Vasil'ev,V Borodin,V Frolov; Zh.Neorg.Khim.36,2850 (1991)
1991YMa P Yang,G Ma et al; Chem.J.of Chin.Univ.,12,577 (1991)
1991YNb H Yamashita,T Nozaki,Y Fukuda; Bull.Chem.Soc.Jpn.,64,697 (1991)
1990ADa K Adam,S Donnelly,A Leong et al; J.Chem.Soc.,Dalton Trans.,1635 (1990)
1990AFa A Anantanarayan,T Fyles; Can.J.Chem.,68,1338 (1990)
1990AMa K Adam,B McCool,A Leong et al; J.Chem.Soc.,Dalton Trans.,3435 (1990)
1990ARA G Anderegg,M Raber; J.Chem.Soc.,Chem.Comm.,1194 (1990)
1990BBa G Barnard,T Boddington,J Gregor,L Pettit; Talanta,37,219 (1990)
1990BDb S Bajpai,K Dwivedi; Scientist Phys.Sciences,2,122 (1990)
1990CBc S Cortes,E Brucher et al; Inorg.Chem.,29,5 (1990)
1990CCa M Cabral,J Costa,R Delgado et al; Polyhedron,9,2847 (1990)
1990CRa K Cherifi,B Decock,T Kiss,I Sovago et al; J.Inorg.Biochem.,38,69 (1990)
1990DGb S Deiana,C Gessa,P Piu,R Seeber; J.Inorg.Biochem.,40,301 (1990)
1990DGC R Dixit,B Garg; Bull.Soc.Chim.Fr.,127,1 (1990)
1990DJb N Dalley,W Jiang,K Krakowiak,R Izatt; J.Inclusion Phenom.,8,299 (1990)
1990DKa D Dyrssen,K Kremling; Marine Chem.,30,193 (1990)
1990DOc M Das,K Omprakash et al; Indian J.Chem.,29A,820 (1990)
1990DPa M Das,A Pal; Indian J.Chem.,29A,1237 (1990)
1990EBA A Elyayaoui,S Boulhassa,R Guillaumont; J.Radioanal.Nucl.Chem.,142,403
(1990)
1990ECa M Esteban,E Casassas,H de Jong et al; Anal.Chim.Acta,229,93 (1990)
1990FGa J Faus,E Garcia-Espana,V Marcelino; Inorg.Chim.Acta,172,203 (1990)
1990FTa I Filipovic,M Tkalcec,B Grabaric; Inorg.Chem.,29,1092 (1990)
1990GKa G Gross,B Costisella,K Schwartz et al; Zh.Obshch.Khim.,60,749 (1990)
1990HCa H Huang,H Chikushi,M Nakamura,F Kai; Bull.Chem.Soc.Jpn.,63,1985 (1990)
1990HNa R Hancock,M Ngwenya,A Evers et al; Inorg.Chem.,29,264 (1990)
1990HTb G Hefter,N Tioh,C Chan; Polyhedron,9,901 (1990)
1990Hwa R Hancock,P Wade,M Ngwenya; Inorg.Chem.,29,1968 (1990)
1990IOc S Ishiguro,K Ozutsumi,A Yagasaki; Bull.Chem.Soc.Jpn.,63,3030 (1990)
1990KDa Z Khatoon, Kabir-ud-Din; Polyhedron,9,2437 (1990)
1990KKa E Kimura,T Koike,T Shiota,Y Iitaka; Inorg.Chem.,29,4621 (1990)
1990KKd Z Khatoon,Kabir-ud-Din; J.Indian Chem.Soc.,67,344 (1990)
1990KMe M Killa,E Mabrouk,A Abdel Fattah; Coll.Czech.Chem.Comm.,55,2381 (1990)
1990KRa W Kadima,D Rabenstein; J.Inorg.Biochem.,38,277 (1990)
1990KUa H Kozlowski,J Urbanska,I Sovago et al; Polyhedron,9,831 (1990)
1990KZa Kang Jingwan,Zhu Zhongping,lu Xiaoquan; Chem.J.of Chin.Univ.,11,813
(1990)
1990LGb B Lenarcik,J Glowacki,M Gabryszewski; Pol.J.Chem.,64,43 (1990)
1990MDa A Mederos,S Dominguez,M H-Padilla et al; J.Coord.Chem.,21,283 (1990)

1990Ba R bin Othman, N Buckman, J Hill; *Thermochim. Acta*, 157, 335 (1990)
1990PIa L Piszczek, A Ignatowicz; *J. Coord. Chem.*, 21, 343 (1990)
1990PSa N Padmaja, M Babu et al; *Polyhedron*, 9, 2497 (1990)
1990RAB F Rey, J Antelo, F Arce, F Penedo; *Polyhedron*, 9, 665 (1990)
1990RMA A Rao, M Mohan; *Indian J. Chem.*, 29A, 996 (1990)
1990SAa Sadiq, M; *Marine Chem.*, 31, 285 (1990)
1990SEb J-M Sequaris, M Esteban; *Electroanalysis*, 2, 35 (1990)
1990SHA M Shoukry; *Transition Met. Chem.*, 15, 1 (1990)
1990SHd M Shoukry; *Proc. Indian Acad. Sci.*, 102, 19 (1990)
1990SKg J Stary, K Kratzer; *J. Radioanal. Nucl. Chem.*, 139, 231 (1990)
1990SPb J Stas, D Pareau, A Chesne, G Durand; *Bull. Soc. Chim. Fr.*, 127, 360 (1990)
1990SSb M Sanchez, B Santana, F Jimenez et al; *Polyhedron*, 9, 501 (1990)
1990TZA J Tang, Z Zhu et al; *Chem. J. of Chin. Univ.*, 11, 813 (1990)
1990UKa S Umetani, S Kihara, M Matsui; *Anal. Chim. Acta*, 232, 293 (1990)
1990VHb P Verhoeven, G Hefter, P May; *J. Coord. Chem.*, 22, 7 (1990)
1990VZA V Vasil'ev, G Zaitseva, N Logacheva; *Zh. Neorg. Khim.*, 35, (11) 2858 (1990)
1990WHA P Wade, R Hancock, J Boeyens; *J. Chem. Soc., Dalton Trans.*, 483 (1990)
1989AGa T Aha, A Ghosh, J Ghosh; *J. Indian Chem. Soc.*, 66, 762 (1989)
1989APE M Aplincourt, J-C Pierrard, J-C Prudhomme; *J. Chem. Res. (S)*, 10 (1989)
1989ARA G Anderegg, H Ripperger; *J. Chem. Soc., Chem. Comm.*, 647 (1989)
1989BBb A Bencini, A Bianchi, M Castello et al; *Inorg. Chem.*, 28, 347 (1989)
1989BBg J Bisht, N Bisht, S Singh; *Indian J. Chem.*, 28A, 812 (1989)
1989BFa E Bottari, M Festa, R Jasionowska; *J. Coord. Chem.*, 20, 209 (1989)
1989BPb M Branica, I Pizeta et al; *Marine Chem.*, 28, 227 (1989)
1989BSa G Branica-Jerkovic, V Simeon; *J. Electroanal. Chem.*, 266, 83 (1989)
1989DYa D Dyrssen; *Marine Chem.*, 28, 241 (1989)
1989EGa N El-Maali, M Ghandour, G Patriarche; *Electroanalysis*, 1, 87; 1, 341 (1989)
1989EHa A Evers, R Hancock, A Martell et al; *Inorg. Chem.*, 28, 2189 (1989)
1989FRa J Fuentes, R Reboso, A Rodriguez; *Polyhedron*, 8, 1365, 2693 (1989)
1989FSA E Farkas, J Szoke, T Kiss, H Kozlowski, Bal; *J. Chem. Soc., Dalton Trans.*, 2247
(1989)
1989GVA P Gonzalez-Duarte, J Vives; *J. Chem. Soc., Dalton Trans.*, 13 (1989)
1989GVb P Gonzalez-Duarte, J Vives; *Inorg. Chem.*, 28, 25 (1989)
1989HAa G Huber, R Alberto et al; *J. Chem. Soc., Chem. Comm.*, 879 (1989)
1989HBa R Hancock, R Bhavan, P Wade et al; *Inorg. Chem.*, 28, 187 (1989)
1989IOc S Ishiguro, K Ozutsumi et al; *Inorg. Chem.*, 28, 3258 (1989)
1989KIa H Killa; *Polyhedron*, 8, 2299 (1989)
1989KNb F Khan, K Nema; *J. Indian Chem. Soc.*, 66, 17 (1989)
1989KTA Y Kinjo, R Tribolet, N Corfu, H Sigel; *Inorg. Chem.*, 28, 1480 (1989)
1989LKa L Lajunen, P Kokkonen, H Knuutti; *Acta Chem. Scand.*, 43, 2 (1989)
1989LKC B Lenarcik, K Kurdziel, R Czopek; *J. Chem. Res. (S)*, 240 (1989)
1989LLb Liu Feng, Li Kian, Wang Mingbo et al; *Anal. Chem. (China)*, 984 (1989)
1989MMd R Motekaitis, A Martell; *Inorg. Chem.*, 28, 3499 (1989)
1989MSf S Massoud, H Sigel; *Eur. J. Biochem.*, 179, 451 (1989)
1989NKc K Nema, F Khan; *Chemica Scripta*, 29, 155 (1989)
1989NOc T Nozaki, Y Oka, H Yamashita; *Nippon Kagaku Kaishi*, 4, 697 (1989)
1989NWA L Nyholm, G Wikmark; *Anal. Chim. Acta*, 223, 429 (1989)
1989OFa M Oms, R Forteza, V Cerda; *Thermochim. Acta*, 138, 1 (1989)
1989PBb Y Polykarpov, F Bel'ski et al; *Izv. Akad. Nauk (USSR)*, 9, 2112 (1989)
1989QYa L Qitao, L Yi, Z Feng; *Polyhedron*, 8, 1953 (1989)

- 1989RVa A Rao,P Venkataiah,M Mohan et al; J.Coord.Chem.,20,69 (1989)
1989SAa K Sawada,T Araki,T Suzuki,K Doi; Inorg.Chem.,28,2687 (1989)
1989SAb M Sadiq; Environ.Technol.Lett.,10,1057 (1989)
1989SLa M Strasak,J Lucansky,P Novomesky et al; J.Coord.Chem.,19,359 (1989)
1989SMc F Salinas,J Martinez-Vidal; Bull.Soc.Chim.Belg.,98,371 (1989)
1989STa K Satoh,Y Takahashi et al; J.Chem.Soc.,Dalton Trans.,1259 (1989)
1989TRb S Trisak,B Rode; Inorg.Chim.Acta,160,249 (1989)
1989WIa M Wisniewski; Pol.J.Chem.,63,3 (1989)
1988ACa G Arena,V Cucinotta,E Rizzarelli et al; J.Chem.Soc.,Dalton Trans.,1267
(1988)
1988ADb K Adam,K Dancey,A Leong,L Lindoy et al; J.Am.Chem.Soc.,110,8471 (1988)
1988ALb K Adam,A Leong,L Lindoy et al; J.Coord.Chem.,19,189 (1988)
1988BAa J Benzakour,G Antonetti,G Ferroni; Bull.Soc.Chim.Belges,97,541 (1988)
1988BDa S Bajpai,K Dwivedi; J.Sci.Res.(Bhopal),10,57 (1988)
1988BEb A Bond,S Ellis,A Hollenkamp; J.Am.Chem.Soc.,110,5293 (1988)
1988BFa E Bottari,M Festa,R Jasionowska; J.Coord.Chem.,17,245 (1988)
1988BMb R Beaudoin,H Menard; Can.J.Chem.,66,236 (1988)
1988BSc S Bajpai,M Saxena; J.Indian Chem.Soc.,65,677 (1988)
1988CCc C Chang,P H-L Chang et al; Inorg.Chem.,27,3786 (1988)
1988CCd G Casella,L Ciavatta; Ann.Chim.(Rome),78,125 (1988)
1988CMA E Chruscinska,J Maslowska; Pol.J.Chem.,62,63 (1988)
1988CRA D Crow; J.Chem.Soc.,Faraday Trans.I,84,4285 (1988)
1988DLb Y Ducommun,G Laurenczy,A Merbach; Inorg.Chem.,27,1148 (1988)
1988DYa D Dyrssen; Marine Chem.,24,143 (1988)
1988DZa P Daniele,O Zerbinati et al; J.Chem.Soc.,Dalton Trans.,1115 (1988)
1988EAa F Erim,E Avsar; Polyhedron,7,213 (1988)
1988EAb Y El-Tantawy,F Al-Kharafi; Ann.Chim.(Rome),78,117 (1988)
1988ECa M Esteban,E Casassas,L Fernandez; J.Electroanal.Chem.,241,113 (1988)
1988GAb M Ghandour,N Aboul-Maali; J.Indian Chem.Soc.,65,156 (1988)
1988GBb G Gavioli,M Borsari et al; Inorg.Chem.,27,1587 (1988)
1988GKa D Graddon,C Khoo; Polyhedron,7,2129 (1988)
1988GMc M Ghandour,H Mansour,M El-Wafa,M Khodary; J.Indian Chem.Soc.,65,713
(1988)
1988GMd M Ghandour,H Mansour,M El-Wafa,M Khodary; J.Indian Chem.Soc.,65,716
(1988)
1988GRa P Gupta,A Raina; Ann.Chim.(Rome),78,317 (1988)
1988GRb S Gaur,S Ranga,S Sharma,R Mehta; Indian J.Chem.,27A,806 (1988)
1988HDa R Hancock,S Dobson,A Evers,P Wade et al; J.Am.Chem.Soc.,110,2788 (1988)
1988HPa Hang Taijun,Peng Cizhen; Chem.J.of Chin.Univ.,676 (1988)
1988HSb R Hancock,M Shaikjee,S Dobson et al; Inorg.Chim.Acta,154,229 (1988)
1988ITa S Ishiguro,T Takamuku,H Ohtaki; Bull.Chem.Soc.Jpn.,61,3901 (1988)
1988KHa F Khan; J.Indian Chem.Soc.,65,464 (1988)
1988KLa J Kulig,B Lenarcik; Pol.J.Chem.,62,351 (1988)
1988KOb S Kalavathi,K Omprakash,M Reddy et al; Indian J.Chem.,27A,822 (1988)
1988KPa M Kabachnik,Y Polykarpov et al; Izv.Akad.Nauk(USSR),4,921 (1988)
1988LDa I Lukes,I Dominak; Chem.Papers 42,311 (1988)
1988LIa S Licht; J.Electrochem.Soc.,135,2971 (1988)
1988MFb M Montemayor,E Fatas; J.Electroanal.Chem.,246,271 (1988)
1988MGa J Moreno,S Garcia,A Hernandez; An.Quim.,84,39 (1988)
1988MKa T Medved,M Kabachnik et al; Izv.Akad.Nauk(USSR),9,2107 (1988)

1988MNb M Mayadeo, J Nalgirkar; *Indian J.Chem.*, 27A, 456 (1988)
1988MSa S Massoud, H Sigel; *Inorg.Chem.*, 27, 1447 (1988)
1988MSd S Massoud, H Sigel; *Bull.Chem.Soc.Ethiopia*, 2, 9 (1988)
1988NKb T Nozaki, T Kabata, H Yamashita; *Nippon Kagaku Kaishi*, 7, 1017 (1988)
1988PBb I Pizeta, M Branica; *J.Electroanal.Chem.*, 250, 293 (1988)
1988PPc M Philip, M Patel, M Peerzada, J Joshi; *J.Indian Chem.Soc.*, 65, 871 (1988)
1988RRb C Rodriguez-Placeres, G Ruiz-Cabrera; *Coll.Czech.Chem.Comm.*, 53, 506 (1988)
1988SBc M Shoonen, H Barnes; *Geochim.Cosmo.Acta*, 52, 649 (1988)
1988SDa K Soe, H Doe, T Kitagawa; *Bull.Chem.Soc.Jpn.*, 61, 2981 (1988)
1988SMb H Sigel, S Massoud, R Tribolet; *J.Am.Chem.Soc.*, 110, 6857 (1988)
1988TGe J Tercero-Moreno, S Gonzalez-Garcia; *An.Quim.*, 84, 159 (1988)
1988ZHa Zhang Hualin, Hua X, Jiang N, Yan Q Y; *Acta Chimica Sinica*, 643 (1988)
1987AAa J Antelo, F Arce, F Rey, A Varela; *Bull.Soc.Chim.Fr.*, I, 435 (1987)
1987AKa G Anderegg, E Koch, E Bayer; *Inorg.Chim.Acta*, 127, 183 (1987)
1987BCb J Bixler, M Cobb, R French et al; *Inorg.Chim.Acta*, 128, 105 (1987)
1987BSb P Brown, R Sylva; *J.Chem.Res.(S)*, 4 (1987)
1987CFb E Casassas, G Fonrodona, R Tauler; *Polyhedron*, 6, 1521 (1987)
1987CSb C Chang, V Sekhar, B Garg; *Inorg.Chim.Acta*, 135, 11 (1987)
1987DDb R Delgado, J da Silva et al; *Polyhedron*, 6, 29 (1987)
1987DFa J Davis, C Fuller, A Cook; *Geochim.Cosmo.Acta*, 51, 1477 (1987)
1987DWb H Doe, K Wakamiya, C Yoshida et al; *Inorg.Chem.*, 26, 2244 (1987)
1987FCa M Filella, E Casassas, D Williams; *Inorg.Chim.Acta*, 136, 177 (1987)
1987GAa H Gampp; *J.Chem.Soc., Faraday Trans.I*, 83, 1719 (1987)
1987GFa Guo Dewei, Fan Chunmei, Chen Jingtang +; *Chem.J.of Chin.Univ.*, 873 (1987)
1987HDa R Hancock, S Dobson, J Boeyens; *Inorg.Chim.Acta*, 133, 221 (1987)
1987HEa R Hancock, A Evers, M Ngwenya, P Wade; *J.Chem.Soc., Chem.Comm.*, 1129 (1987)
1987HNa R Hancock, M Ngwenya; *J.Chem.Soc., Dalton Trans.*, 2911 (1987)
1987KLb J Kulig, B Lenarcik, M Rzepka; *Pol.J.Chem.*, 61, 735 (1987)
1987KSg R Kulshrestha, N Sengar, M Singh; *J.Indian Chem.Soc.*, 64, 696 (1987)
1987MOb N Moussa; *Polyhedron*, 6, 1477 (1987)
1987NKa K Nema, F Khan; *J.Indian Chem.Soc.*, 64, 629 (1987)
1987PBa S Pisareva, F Belski et al; *Izv.Akad.Nauk(USSR)*, 2, 413 (1987)
1987PCa E Paniago, S Carvalho; *Inorg.Chim.Acta*, 136, 159 (1987)
1987PEa R Petrola; *Ann.Acad.Sci.Fennicae*, 215 (1987)
1987PFb S Peiffer, T Frevert; *Analyst*, 112, 951 (1987)
1987PIa V Prokuev, V Ivanovski; *Zh.Neorg.Khim.*, 32, 2752(1600) (1987)
1987PSb A Pyatachkov, V Shormanov et al; *Koord.Khim.*, 13(6)793 (1987)
1987RDb S Ranga, K Daga, S Guer, R Mehta; *Indian J.Chem.*, 26A, 526 (1987)
1987SHA B Spiess, E Harraka, D Wencker et al; *Polyhedron*, 6, 1247 (1987)
1987STb H Sigel, R Tribolet et al; *Inorg.Chem.*, 26, 2149 (1987)
1987USa N Ulakhovich, L Shaidarova, G Boudnikov; *Zh.Neorg.Khim.*, 32, 679(381) (1987)
1987VBd V Vasilev, E Kozlovskii, G Chistyakova; *Zh.Neorg.Khim.*, 32, 1521(911) (1987)
1987YOa A Yuchi, T Okubo, H Wada, G Nakagawa; *Anal.Sci.Jpn.*, 3, 151 (1987)
1987YSb A Yuchi, K Sugiura, H Wada, G Nakagawa; *Bull.Chem.Soc.Jpn.*, 60, 4291 (1987)
1987ZSa N Zelichowicz, W Sliwa, A Gaudyn; *Transition Met.Chem.*, 12, 423 (1987)
1986ABb F Arce, C Blanco, J Casado; *Talanta*, 33, 1031 (1986)
1986ARa R Aruga; *Bull.Soc.Chim.Fr.*, I, 393 (1986)
1986ARb Y Agrawal, B Rathi; *Transition Met.Chem.*, 11, 472 (1986)
1986BFc E Bottari, M Festa; *Ann.Chim.(Rome)*, 76, 345 (1986)
1986BLa E Bezak-Mazur, B Lenarcik, M Rzepka; *Pol.J.Chem.*, 60, 399 (1986)

1986COB C Chang, V Ochaya; *Inorg.Chem.*, 25, 355 (1986)
1986CRA D Crow; *J.Chem.Soc., Faraday Trans. I*, 82, 3415 (1986)
1986CRb D Crow; *J.Chem.Soc., Dalton Trans.*, 2651 (1986)
1986CRc D Crow; *Talanta*, 33, 553 (1986)
1986CRd S Capone, A Robertis et al; *Talanta*, 33, 763 (1986)
1986DSa K Damu, M Shaikjee, J Michael, R Hancock et; *Inorg.Chem.*, 25, 3879 (1986)
1986GGa F Gaizer, G Gondos, L Gera; *Polyhedron*, 5, 1149 (1986)
1986HAb P Hakkinen; *Finn.Chem.Lett.*, 13, 15 (1986)
1986HBC R Hancock, R Bhavan, M Shaikjee et al; *Inorg.Chim.Acta*, 112, L23 (1986)
1986HBe R Hancock, R Bhavan, C Wagner, G Hosken; *S.Afr.J.Chem.*, 39, 238 (1986)
1986HSd K Hayashi, Y Sasaki, S Tagashira; *Bull.Chem.Soc.Jpn.*, 59, 1255 (1986)
1986IYa S Ishiguro, K Yamamoto, H Ohtaki; *Bull.Chem.Soc.Jpn.*, 59, 1009 (1986)
1986JAa A Jaber; *Polyhedron*, 5, 1701 (1986)
1986KCb R Kumari, C Chandel, C Gupta; *Indian J.Chem.*, 25A, 877 (1986)
1986KUc G Kura; *Polyhedron*, 5, 2097 (1986)
1986LDA L Lougina, N Davidenko, I Tovt; *Zh.Neorg.Khim.*, 31, 678(387) (1986)
1986MBd M Mayadeo, R Banavali; *Indian J.Chem.*, 25A, 396 (1986)
1986MHb K Math, S Hiremath, T Aminabhavi; *Indian J.Chem.*, 25A, 603 (1986)
1986MMb V Maistrenko, Y Mourinov et al; *Zh.Neorg.Khim.*, 31, 417(236) (1986)
1986PLc J Powell, D Ling, P Tse; *Inorg.Chem.*, 25, 585, 587 (1986)
1986RQa G Ruiz-Cabrera, C Quintana-Perera et al; *Polyhedron*, 5, 933 (1986)
1986RVa A Romero, J Vera, Y Martinez Ortiz; *An.Quim.*, 82, 355 (1986)
1986SGB S Sharma, A Gahlot, R Mehta; *Indian J.Chem.*, 25A, 279 (1986)
1986SVA I Sovago, K Varnagy, A Benyei; *Magyar Kem.Foly.*, 92, 114 (1986)
1986Tsa V Thom, S Shaikjee, R Hancock; *Inorg.Chem.*, 25, 2992 (1986)
1986UBa N Ulakhovich, G Budnikov et al; *Zh.Neorg.Khim.*, 31, 111(62) (1986)
1986WMA Wang Guoshun, Miao Jingyi, Li Xinhong; *Acta Chimica Sinica*, 821 (1986)
1986XHa Xu Xiliang, Huang Zhongxian; *Acta Chimica Sinica*, 1005 (1986)
1985ADc P Amico, P Daniele, G Ostacoli; *Transition Met.Chem.*, 10, 11 (1985)
1985BAB S Bhardwaj, M Ansari, M Jain, W Malik; *Indian J.Chem.*, 24A, 535 (1985)
1985BAC V Bochkarev, L Arkhipova, O Stepanova; *Koord.Khim.*, 11(7)896 (1985)
1985BSb K Blomqvist, E Still; *Anal.Chem.(USA)*, 57, 749 (1985)
1985CEa E Casassas, M Esteban; *J.Electroanal.Chem.*, 194, 11 (1985)
1985CFb A Cole, C Furnival, Z-X Huang, D Jones; *Inorg.Chim.Acta*, 108, 165 (1985)
1985CSb P Corboux, B Spiess, F Arnaud, M Schwing; *Polyhedron*, 4, 1471 (1985)
1985DAb A Deme, J Ashaks et al; *Chem.Zvesti*, 39, 649 (1985)
1985FWa M Filella, D Williams; *Inorg.Chim.Acta*, 106, 49 (1985)
1985GEa M Ghandour, A El-Samahy, Z Komy; *J.Indian Chem.Soc.*, 62, 198 (1985)
1985GLa M Gabryszewski, B Lenarcik; *Pol.J.Chem.*, 59, 129 (1985)
1985GNa I Gutz, E Neves; *J.Electroanal.Chem.*, 183, 123 (1985)
1985HSc M Hughes, G Smith, D Williams; *Inorg.Chim.Acta*, 107, 247 (1985)
1985KAa H Killa, M Abu-el-Wahed, H Dessouki; *Polyhedron*, 4, 1219 (1985)
1985KCa R Kumari, C Chandel, C Gupta; *Bull.Chem.Soc.Jpn.*, 58, 721 (1985)
1985KCb R Kumari, C Chandel, C Gupta; *J.Indian Chem.Soc.*, 62, 740 (1985)
1985KIa H Killa; *J.Chem.Soc., Faraday Trans. I*, 81, 2659 (1985)
1985LAa C Luca, H Azab, I Tanase; *Anal.Lett.*, 18, 449 (1985)
1985LBc S Lubkeova, P Balgavy et al; *Chem.Zvesti*, 39, 317 (1985)
1985MCA J Maslowska, E Chruscinska; *Pol.J.Chem.*, 59, 339 (1985)
1985MCb J Maslowska, E Chruscinska; *Pol.J.Chem.*, 59, 1013 (1985)
1985MHa M Mamczak, H Hudakova; *Chem.Zvesti*, 39, 77 (1985)

1985MMa F Mulla, F Marsicano, B Nakani et al; *Inorg.Chem.*, 24, 3076 (1985)
1985NSb F Arnaud-Neu, M Sanchez et al; *Helv.Chim.Acta*, 68, 456 (1985)
1985NSc F Arnaud-Neu, M Sanchez et al; *Helv.Chim.Acta*, 68, 840 (1985)
1985PBa V Prokuev, E Belousov; *Zh.Neorg.Khim.*, 30, 1203(679) (1985)
1985RSb A Ramadan, M Seada et al; *Monatsh.Chem.*, 116, 463 (1985)
1985RSd M Rao, B Sethuram, T Rao; *Indian J.Chem.*, 24A, 327 (1985)
1985SBb J Santaballa, C Blanco, F Arce et al; *Talanta*, 32, 931 (1985)
1985SCc M Simoes Goncalves, M Correia dos Santos; *J.Electroanal.Chem.*, 187, 333
(1985)
1985SGd N Schmelzer, M Grigo, B Zorn, J Einfeldt; *Naturwissenschaft*, 34, 25 (1985)
1985SLa S Sullivan, J-M Lehn; *Helv.Chim.Acta*, 68, 831 (1985)
1985SMA S Singh, S Mattu, S Choudhury et al; *Bull.Soc.Chim.Fr.*, II, 713 (1985)
1985SPb V Shormanov, S Pukhov et al; *Koord.Khim.*, 11(7)899 (1985)
1985TGa R Tripathi, R Ghose, A Ghose; *Indian J.Chem.*, 24A, 565 (1985)
1985THb V Thoem, G Hosken, R Hancock; *Inorg.Chem.*, 24, 3378 (1985)
1985TZa Tai Zihou, Zhu Chunsheng; *Huaxue Tongbao(Chem.China)*, 4-16 (1985)
1985VKa V Vasilev, E Kozlov et al; *Zh.Neorg.Khim.*, 30, 1457(831) (1985)
1985VNa N Velloso, E Almeida Neves, I Gutz; *Polyhedron*, 4, 2043 (1985)
1985Wta Z Warnke, C Trojanowska, A Liwo; *J.Coord.Chem.*, 14, 31 (1985)
1985XZa Xu Qiheng, Zhou Zhongwan, Yin Zhiyu; *Anal.Chem.(China)*, 170 (1985)
1985Ysa K Yatsimirskii, T Saikov; *Zh.Neorg.Khim.*, 30, 1206(681) (1985)
1985Ywa A Yuchi, H Wada, G Nakagawa; *Anal.Sci.Jpn.*, 1, 409 (1985)
1984ABb S Abbasi; *Pol.J.Chem.*, 58, 61 (1984)
1984ABc M Asso, D Benlian; *Can.J.Chem.*, 62, 2379 (1984)
1984ABh A Avdeef, J Brown; *Inorg.Chim.Acta*, 91, 67 (1984)
1984ACa G Arena, V Cucinotta, S Musumeci et al; *Ann.Chim.(Rome)*, 74, 399 (1984)
1984BEa C van den Berg; *Geochim.Cosmo.Acta*, 48, 2613 (1984)
1984BGa J Bayon, P Gonzalez-Duarte, J Vives; *J.Chem.Soc., Dalton Trans.*, 2671 (1984)
1984BSb K Blomqvist, E Still; *Inorg.Chem.*, 23, 3730 (1984)
1984CCc G Crisponi, R Caminiti, S Biagini, M Casu; *Polyhedron*, 3, 1105 (1984)
1984CGc C Chandel, C Gupta; *Bull.Chem.Soc.Jpn.*, 57, 2303 (1984)
1984COa R Contant; *J.Chem.Res.(S)*, 120 (1984)
1984CRa D Crow; *Talanta*, 31, 421 (1984)
1984DMb J Duffield, P May, D Williams; *J.Inorg.Biochem.*, 20, 199 (1984)
1984DOb V Dongre; *Indian J.Chem.*, 23A, 147 (1984)
1984FCa C Fouillac, A Criaud; *Geochem.J.*, 18, 297 (1984)
1984GHb R Ghose; *Indian J.Chem.*, 23A, 493 (1984)
1984GLa M Gomez-Nieto, M Luque-de-Castro et al; *Anal.Chim.Acta*, 156, 77 (1984)
1984Gwa I Grenthe, P Wikberg, E Still; *Inorg.Chim.Acta*, 91, 25 (1984)
1984HAd P Hakkinen; *Finn.Chem.Lett.* 151 (1984)
1984HSb K Hayashi, Y Sasaki, S Inomata; *Bull.Chem.Soc.Jpn.*, 57, 3074 (1984)
1984ISe K Idriss, M Seleim, M Abu-Bakr, M Saleh; *Ann.Chim.(Rome)*, 74, 845 (1984)
1984JOb J Joshi; *J.Indian Chem.Soc.*, 61, 901 (1984)
1984JSb D Jones, G Smith, P May et al; *Inorg.Chim.Acta*, 93, 93 (1984)
1984KMa M Kabachnik, T Medved et al; *Izv.Akad.Nauk(USSR)*, 4, 835 (1984)
1984KMb M Kabachnik, T Medved et al; *Izv.Akad.Nauk(USSR)*, 4, 844 (1984)
1984KMc H Killa, E Mercer, R Philp; *Anal.Chem.(USA)*, 56, 2401 (1984)
1984KRb K Kumar, D Prasad, P Nigam; *Monatsh.Chem.*, 115, 731 (1984)
1984KSc R Kulshreshtha, M Singh; *J.Indian Chem.Soc.*, 61, 132 (1984)
1984KZa H Killa, M Zaky; *Anal.Lett.*, 17, 2301 (1984)

1984KZb H Killa, M Zaky; *Anal. Lett.*, 18, 167 (1984)
1984LSb J Labuda, M Skatulokova, M Nemeth, Gergely; *Chem. Zvesti*, 38, 597 (1984)
1984MLa A Murthy, P Lingaiah; *Indian J. Chem.*, 23A, 969 (1984)
1984MMc C Madeyski, J Michael, R Hancock; *Inorg. Chem.*, 23, 1487 (1984)
1984MMg R Miotekaitis, A Martell; *J. Coord. Chem.*, 13, 265 (1984)
1984MMh A Martinez-Garzon, M Moreno-Carretero; *Thermochim. Acta*, 80, 143 (1984)
1984MRa V Mundra, G Rao, C Murthy; *Pol. J. Chem.*, 58, 53 (1984)
1984MSf Y Masuda, E Sekido; *Electrochim. Acta*, 29, 717 (1984)
1984MTa C Melios, V Torres et al; *Analyst*, 109, 385 (1984)
1984MWb P May, M Willes, D Williams, A Creighton; *Agents Actions*, 15, 448 (1984)
1984MYa Y Moriguchi, T Yoshida, M Takagi; *Bunseki Kagaku*, 33, 435 (1984)
1984NHa B Nakani, R Hancock; *J. Coord. Chem.*, 13, 143 (1984)
1984ORa K Omprakash, K Reddy et al; *Indian J. Chem.*, 23A, 79 (1984)
1984PBe L Perello, J Borrás, L Soto et al; *Monatsh. Chem.*, 115, 1377 (1984)
1984PEb V Prokuev, V Eintrop, E Belousov; *Zh. Neorg. Khim.*, 29, 1599 (1984)
1984PHc V Pecoraro, J Hermes, W Cleland; *Biochemistry*, 23, 5262 (1984)
1984PRb R Parkash, S Rehani, R Bala; *J. Indian Chem. Soc.*, 61, 930 (1984)
1984RFb B Rodriguez-Rios, J Fuentes-Diaz; *An. Quim.*, 80, 60 (1984)
1984RFd B Rodriguez-Rios, J Fuentes-Diaz; *An. Quim.*, 80, 200 (1984)
1984RFe B Rodriguez-Rios, J Fuentes-Diaz; *An. Quim.*, 80, 32; 37 (1984)
1984SCb M Simoes Goncalves, M Correia dos Santos; *J. Electroanal. Chem.*, 163, 315 (1984)
1984SDB R Saxena, S Dhawan; *J. Prakt. Chem.*, 326, 845 (1984)
1984SMA K Sawada, T Mitsuyose, T Suzuki; *J. Chem. Soc., Dalton Trans.*, 935 (1984)
1984SPA R Saxena, R Parikhaw, K Gupta; *Monatsh. Chem.*, 115, 141 (1984)
1984SSb H Sigel, K Scheller, R Milburn; *Inorg. Chem.*, 23, 1933 (1984)
1984TME P Tedesco, J Martinez; *Talanta*, 31, 155 (1984)
1984UBa N Ulakhovich, H Budnikov et al; *Talanta*, 31, 727 (1984)
1983ADB J Apte, K Dwivedi, R Bhatnagar; *J. Indian Chem. Soc.*, 60, 989 (1983)
1983BAB K Bai; *Polyhedron*, 2, 513 (1983)
1983BDa A Bellomo, D de Marco, A de Roberts; *Polyhedron*, 2, 735 (1983)
1983BNa P Bhansali, B Nemade; *J. Electrochem. Soc. India*, 32, 135 (1983)
1983CHb M Chandra; *Transition Met. Chem.*, 8, 276 (1983)
1983CRa D Crow; *Talanta*, 30, 659 (1983)
1983CRb C Chang, M Rowland; *Inorg. Chem.*, 22, 3867 (1983)
1983DAa P Daniele, P Amico, G Ostacoli et al; *Ann. Chim. (Rome)*, 73, 199 (1983)
1983DBa P Djurdjevic, J Bjerrum; *Acta Chem. Scand.*, A37, 881 (1983)
1983DOa P Daniele, P Amico, G Ostacoli et al; *Ann. Chim. (Rome)*, 73, 299 (1983)
1983DOb V Dongre; *Inorg. Chim. Acta*, 73, 281 (1983)
1983ERA M El-Ezaby, M Rashad, N Moussa; *Polyhedron*, 2, 245 (1983)
1983GCa N Gupta, C Chandel, P Gupta et al; *Bull. Chem. Soc. Jpn.*, 56, 3138 (1983)
1983GSa I Granberg, S Sjoberg; *Acta Chem. Scand.*, A37, 415 (1983)
1983GVb M Goncalves, P Valenta, H Nurnberg; *J. Electroanal. Chem.*, 149, 249 (1983)
1983GWA M Gabryszewski, M Wisniewski; *Pol. J. Chem.*, 57, 1161 (1983)
1983ISc M Iskam, R Singh, B Bhat; *Indian J. Chem.*, 22A, 175 (1983)
1983KKA R Kulshrestha, Krishna, M Singh; *J. Electrochem. Soc. India*, 32, 275 (1983)
1983KSb R Kulshrestha, M Singh; *J. Indian Chem. Soc.*, 60, 1037 (1983)
1983LKa D Leggett, S Kelly, L Shiue, K Kadish; *Talanta*, 30, 579 (1983)
1983LRA B Lenarcik, M Rzepka; *Pol. J. Chem.*, 57, 1149 (1983)
1983LWA B Lenarcik, M Wisniewski; *Pol. J. Chem.*, 57, 735 (1983)

1983Mca J Maslowska, E Chruscinska; Pol.J.Chem., 57, 399 (1983)
1983MOd H Matsui, H Ohtaki; Polyhedron, 2, 631 (1983)
1983MOe I Mizitskaya, N Oleinik, L Prokopchuk; Zh.Neorg.Khim., 28, 1691 (1983)
1983NFa G Nifanteva, A Fedorova, V Fedorov; Zh.Neorg.Khim., 28, 1327(749) (1983)
1983Nwa B Nakani, J Welsh, R Hancock; Inorg.Chem., 22, 2956 (1983)
1983OWb A Olin, G Wikmark; Anal.Chem.(USA), 55, 1402 (1983)
1983Oza M Otto, H Zwanziger, G Werner; Inorg.Chim.Acta, 70, 41 (1983)
1983PSe S Pathak, B Singh; J.Indian Chem.Soc., 60, 899 (1983)
1983RAa R Ramette; Anal.Chem.(USA), 55, 1232 (1983)
1983RRa E Rizkalla, A Ramadan et al; Polyhedron, 2, 1155 (1983)
1983RSa A Ramadan, M Seada; Talanta, 30, 245 (1983)
1983Saa Y Sasaki; Bunseki Kagaku, 32, E17 (1983)
1983SAb P Sachan; J.Electrochem.Soc.India, 32, 289 (1983)
1983SFa H Sigel, B Fischer, E Farkas; Inorg.Chem., 22, 925 (1983)
1983SGf R Saxena, A Gupta; Chemica Scripta, 22, 66 (1983)
1983SLc R Strand, W Lund, J Aaseth; J.Inorg.Biochem., 19, 301 (1983)
1983SSF R Saxena, M Sharma; J.Indian Chem.Soc., 60, 901 (1983)
1983Sva R Stella, G Valentini; Anal.Chim.Acta, 152, 191 (1983)
1983UBa N Ulakhovich, G Budnikov et al; Zh.Neorg.Khim., 28, 2838(1611) (1983)
1983Wba M Wilgocki, J Bjerrum; Acta Chem.Scand., A37, 307 (1983)
1983Ywa A Yuchi, H Wada et al; Anal.Chim.Acta, 149, 209 (1983)
1983ZYb Zhang Shousong, Yang Jie; Anal.Chem.(China), 561 (1983)
1982ABc G Anderegg, P Blauenstein; Helv.Chim.Acta, 65, 162 & 913 (1982)
1982AKb A Avdeef, D Kearney; J.Am.Chem.Soc., 104, 7212 (1982)
1982CGc C Chandel, C Gupta, N Sachan; Chemica Scripta, 20, 229 (1982)
1982DAa P Daniele, P Amico, G Ostacoli; Inorg.Chim.Acta, 66, 65 (1982)
1982ESa M El-Ezaby, F A-Sogair; Polyhedron, 1, 791 (1982)
1982GKa M Gabryszewski, J Kulig, B Lenarcik; Pol.J.Chem., 56, 55 (1982)
1982GLa M Gabryszewski, B Lenarcik; Pol.J.Chem., 56, 1237 (1982)
1982GSa K Gupta, K Sharma; Analyst, 107, 1512 (1982)
1982Gwa Guo Du, Wang Erkang; Acta Chimica Sinica, 797 (1982)
1982HFa Z Huang, J Duffield, P May, D Williams +; Polyhedron, 1, 153 (1982)
1982Hka T Hirokawa, Y Kiso; J.Chromatography, 248, 341 (1982)
1982ISb H Ishii, K Satoh, Y Satoh, H Koh; Talanta, 29, 545 (1982)
1982JAb G Jackson; S.Afr.J.Chem., 35, 30 (1982)
1982JHb L Jancar, J Havel, V Kuban, L Sommer; Coll.Czech.Chem.Comm., 47, 2654 (1982)
1982Kbb Y Kozlov, V Babich, A Kapustnikov; Zh.Neorg.Khim., 27, 147(83) (1982)
1982KMe H Kalra, J Malik, V Gera; J.Indian Chem.Soc., 59, 1427 (1982)
1982Knc M Kumari, L Narain; J.Coord.Chem., 12, 49 (1982)
1982Lkb B Lenarcik, K Kurdziel; Pol.J.Chem., 56, 3 (1982)
1982LUa E Ludwig, E Uhlemann; Anal.Chim.Acta, 140, 171 (1982)
1982MAd H Marafie, M El-Azaby, N Kittaneh; Transition Met.Chem., 7, 227 (1982)
1982Mca J Maslowska, E Chruscinska; Pol.J.Chem., 56, 617 (1982)
1982MIa R Murai, S Iwahori, T Sekine; Bunseki Kagaku, 31, E413 (1982)
1982MOa H Matsui, H Ohtaki; Bull.Chem.Soc.Jpn., 55, 2131 (1982)
1982MOb H Matsui, H Ohtaki; Bull.Chem.Soc.Jpn., 55, 461 (1982)
1982MYb Y Moriguchi, T Yoshimatsu et al; Bunseki Kagaku, 31, 318 (1982)
1982NBb I Nagypal, M Beck; Talanta, 29, 473 (1982)
1982Nna R Nikolic, O Neskovic; J.Chem.Soc., Dalton Trans., 1417 (1982)
1982PPc J Podlahova, J Podlaha; Coll.Czech.Chem.Comm., 47, 1078 (1982)

1982RAa T Rao,G Aravamudan,R Narayan; Electrochim.Acta,27,985 (1982)
1982RBA M Ramaiah,B Bhat,R Sundaresan; Proc.Indian Acad.Sci.,91,151 (1982)
1982RBb M Ramaiah,B Bhat,R Sundaresan; J.Electrochem.Soc.India,31,135 (1982)
1982RRd M Rainer,B Rode; Inorg.Chim.Acta,58,59 (1982)
1982SCa N Sachan,C Chandel,C Gupta; Chemica Scripta,20,111 (1982)
1982SLb S Swamy,P Lingaiah; Indian J.Chem.,21A,654 (1982)
1982SLc J Stary,J Liljenzin; Pure & Appl.Chem.,54,2557 (1982)
1982SSa N Saha,H Sigel; J.Am.Chem.Soc.,104,4100 (1982)
1982SSb H Sigel,K Scheller; J.Inorg.Biochem.,16,297 (1982)
1982TCa V Tsyplakova,T Chan,B Nguyen; Zh.Neorg.Khim.,27,1701(960) (1982)
1982TSb S Takeshima,H Sakurai; Inorg.Chim.Acta,66,119 (1982)
1982UVa V Unny,D Vartak; Indian J.Chem.,21A,493 (1982)
1982VJa S Vlchkova,L Jancar,V Kuban,J Haven; Coll.Czech.Chem.Comm.,47,1086
(1982)
1981AAa J Antelo,F Arce,J Casado et al; Ann.Chim.(Rome),71,209 (1981)
1981AAb A Aggarwal,H Arora et al; J.Inorg.Nucl.Chem.,43,601 (1981)
1981AAc P Amico,G Arena,P Daniele et al; Inorg.Chem.,20,772 (1981)
1981ABc S Ahrland,N-O Bjork,I Persson; Acta Chem.Scand.,A35,67 (1981)
1981ABd S Aditya,S Bandopadhyay,R Das; Thermochim.Acta,46,337 (1981)
1981ANA G Anderegg; Helv.Chim.Acta,64,1790 (1981)
1981ANb G Anderegg; J.Coord.Chem.,11,171 (1981)
1981APa A Aggarwal,K Pandeya,R Singh; Ann.Chim.(Rome),71,387 (1981)
1981APc S Ahrland,I Persson; Acta Chem.Scand.,A35,185 (1981)
1981APd A Aggarwal,K Pandeya,R Singh; Indian J.Chem.,20A,752 (1981)
1981ASb T Ait-Hamouda,M Schwing-Weill; Analisis,9,93 (1981)
1981CPb M Claude,M Paris,J Schraff et al; J.Chem.Res.(S),222 (1981)
1981DDb D Dhuley,V Dongre; Indian J.Chem.,20A,426 (1981)
1981DDc D Dhuley,V Dongre; Indian J.Chem.,20A,208 (1981)
1981ESa M Ermakova,I Shikina,N Latosh; Zh.Obshch.Khim.,51,174 (1981)
1981FNa D Franco,E Neves,S Lopes,M Capelato; An.Acad.Brasil.Cienc.,53,481 (1981)
1981GKa A Gorodyski,V Kublanovskii et al; Zh.Neorg.Khim.,26,1608(866) (1981)
1981GMi S Garg,S Mukherjee,B Garg,R Singh; Indian J.Chem.,20A,535 (1981)
1981GSa I Granberg,S Sjoberg; Acta Chem.Scand.,A35,193 (1981)
1981GVa R Gowda,M Venkatappa; J.Electrochem.Soc.India,30,336 (1981)
1981KMb S Kulstad,L Malmsten; J.Inorg.Nucl.Chem.,43,1299 (1981)
1981KNa S Kelkar,B Nemade; J.Electrochem.Soc.India,30,228 (1981)
1981KSa M Kamini,S Sindhwani,R Singh; Indian J.Chem.,20A.1040 (1981)
1981KSd A Krishna,M Singh; J.Inorg.Nucl.Chem.,43,2075 (1981)
1981KTa F Kah,H Takeshita,S Sukimoto et al; J.Inorg.Nucl.Chem.,43,3013 (1981)
1981LKa B Lenarcik,K Kurdziel; Pol.J.Chem.,55,737 (1981)
1981LMb B Lenarcik,W Maciejewski; Pol.J.Chem.,55,31 (1981)
1981LRA B Lenarcik,M Rzepka; Pol.J.Chem.,55,503 (1981)
1981MAa H Matsui; J.Inorg.Nucl.Chem.,43,2187 (1981)
1981MBA D Marco,A Bellomo,A Robertis; J.Inorg.Nucl.Chem.,43,137 (1981)
1981MFA T Matusinovic,I Filipovic; Talanta,28,199 (1981)
1981MMA T Matsuo,Y Masuda,E Sekido; Nippon Kagaku Kaishi,1265 (1981)
1981MMd M Molina,C Melios,N Barelli; Talanta,28,69 (1981)
1981MNA Y Masuda,T Nakamori,E Sekido; Electrochim.Acta,26,427 (1981)
1981MNB M Muzumdar,B Nemade; J.Electrochem.Soc.India,30,316 (1981)
1981MUa S Murakami; J.Inorg.Nucl.Chem.,43,335 (1981)

1981NSc V Novak, M Svicekova et al; Chem.Zvesti, 35, 481 (1981)
1981PBb O Prakash, S Bhasin, D Jain; J. Electrochem. Soc. India, 30, 152 (1981)
1981RAa R Ramette; Anal. Chem., 53, 2244 (1981)
1981RRc B Rao, D Reddy, M Reddy; Indian J. Chem., 20A, 209 (1981)
1981RSa M Rao, B Sethuram, T Rao; Indian J. Chem., 20A, 1136 (1981)
1981RSc D Reddy, B Sethuram, T Rao; Indian J. Chem., 20A, 533 (1981)
1981RUa M Ruedas; J. Inorg. Nucl. Chem., 43, 606 (1981)
1981SDb R Saxena, S Dhawan; J. Electrochem. Soc. India, 30, 221 (1981)
1981SFa H Stetter, W Frank, R Mertens; Tetrahedron, 37, 767 (1981)
1981SHA K Scheller, F Hofstetter et al; J. Am. Chem. Soc., 103, 247 (1981)
1981SJa M Shivhare, K Jain, M Singh; J. Inorg. Nucl. Chem., 43, 2885 (1981)
1981SSa M Shivhare, M Singh; J. Inorg. Nucl. Chem., 43, 1599 (1981)
1981SSF V Skopenko, V Samoilenko, O Movchan; Zh. Neorg. Khim., 26, 1319(709) (1981)
1981SSi M Shivhare, M Singh; J. Electrochem. Soc. India, 30, 277 (1981)
1981SVb M Simies, M Vaz; Talanta, 28, 237 (1981)
1981SZa Shi Qinghe, Zhang Jixian, Hu Huiyong; Acta Chimica Sinica, 272 (1981)
1981TVa F Talarico, M Vicedomini; Ann. Chim. (Rome), 71, 97 (1981)
1981YJa Yang Weida, Jin Jihong; Chem. J. of Chin. Univ., 257 (1981)
1981YYa H Yokoyama, H Yamatera; Bull. Chem. Soc. Jpn., 54, 2286 (1981)
1981ZPa I Zsigrai, J Pilipovic, I Gal; Bull. Soc. Chim. Beograd, 46, 579 (1981)
1980AAa J Antelo, F Arce, J Casado, A Varela; Ann. Chim. (Rome), 70, 267 (1980)
1980ACa C Airolidi, A Chagas, F Assuncao; J. Chem. Soc., Dalton Trans., 1823 (1980)
1980AJa L Agarwal, D Jain; J. Indian Chem. Soc., 57, 309 (1980)
1980APa S Ahrland, I Persson; Acta Chem. Scand., A34, 645 (1980)
1980BBc I Benedikovic, P Balgavy et al; Chem. Zvesti, 34, 78 (1980)
1980COa Y Couturier; Bull. Soc. Chim. Fr., I, 370 (1980)
1980DAa P Daniele, P Amico, G Ostacoli; Ann. Chim. (Rome), 70, 87 (1980)
1980FMD Y Fridman, A Moldogazieva, D Sarbaev; Zh. Neorg. Khim., 25, 1868(1035) (1980)
1980JAA M Jawaid; Talanta, 27, 95 (1980)
1980KKb M Kodama, E Kimura, S Yamaguchi; J. Chem. Soc., Dalton Trans., 2536 (1980)
1980KMc S Kulstad, L Malmsten; J. Inorg. Nucl. Chem., 42, 1193 (1980)
1980KSA R Kadian, J Sharma et al; Indian J. Chem., 19A, 819 (1980)
1980LEa D Leggett; Talanta, 27, 787 (1980)
1980LKa H Lonnerberg, A Koskinen; Acta Chem. Scand., A34, 181 (1980)
1980Lkb B Lenarcik, K Kurdziel et al; J. Inorg. Nucl. Chem., 42, 587 (1980)
1980LOa H Lonnerberg; Acta Chem. Scand., A34, 703 (1980)
1980LWa B Lenarcik, M Wisniewski, M Gabryszewski; Pol. J. Chem., 54, 1869 (1980)
1980MFC A Mederos, J Fuentes, E de la Rosa; An. Quim., 76, 352 (1980)
1980MKb R Medancic, I Kruhac, B Mayer et al; Croat. Chem. Acta, 53, 419 (1980)
1980MOa S Murakami, K Ogura, T Yoshino; Bull. Chem. Soc. Jpn., 53, 2228 (1980)
1980MRA H Menard, F L-Routhier; Can. J. Chem., 58, 2312 (1980)
1980MRC J Majer, R Riecancka, Z Pikulikova; Chem. Zvesti, 34, 93 (1980)
1980MSb G Malik, S Singh; Indian J. Chem., 19A, 922 (1980)
1980PAa S Pathak; J. Indian Chem. Soc., 57, 446 (1980)
1980PKc S Prabhu, S Kelkar, B Nemade; J. Electrochem. Soc. India, 29, 178 (1980)
1980PSb Pushparaja, M Sudarsanan; Indian J. Chem., 19A, 149 (1980)
1980RSb D Reddy, B Sethuram et al; Indian J. Chem., 19A, 275, 495 (1980)
1980RSc M Rao, B Sethuram et al; Indian J. Chem., 19A, 379 (1980)
1980RSe D Reddy, B Sethuram, T Rao; Indian J. Chem., 19A, 246 (1980)
1980RZa E N Rizkalla, M T M Zaki; Talanta 27, 769 (1980)

1980SAa B Spiess, F Arnaud-Neu et al; *Helv.Chim.Acta*, 63, 2287 (1980)
1980SAb K Scheller, T Abel, P Polanyi, H Sigel; *Eur.J.Biochem.*, 107, 455 (1980)
1980SBd R Sharma, S Baghel, J Gaur; *J.Electrochem.Soc.India*, 29, 167 (1980)
1980SGg R Sharma, J Gaur; *J.Electrochem.Soc.India*, 29, 45 (1980)
1980SGi N Sachan, C Gupta; *Talanta*, 27, 457 (1980)
1980SKa R Sandhu, R Kumar; *Ann.Chim.(Rome)*, 70, 387 (1980)
1980SKb R Sandhu, R Kalia; *Ann.Chim.(Rome)*, 70, 625 (1980)
1980SKd R Saxena, G Khandelwal; *J.Indian Chem.Soc.*, 57, 116 (1980)
1980SRa L Sipos, B Raspor, H Nurnberg, R Pytkowicz; *Marine Chem.*, 9, 37 (1980)
1980SSa H Sigel, K Scheller et al; *J.Chem.Soc., Dalton Trans.*, 1022 (1980)
1980TMa P Tedesco, J Martinez; *J.Inorg.Nucl.Chem.*, 42, 95 (1980)
1980ZRb M Zaki, E Rizkalla; *Talanta*, 27, 709 (1980)
1980ZRc M Zaki, E Rizkalla et al; *Talanta*, 27, 715 (1980)
1980ZYb Zhong Shan, Yang Weida; *Chem.J.of Chin.Univ.*, 1, 29 (1980)
1979ACa A Alberts, D Cram; *J.Am.Chem.Soc.*, 101, 3545 (1979)
1979ADa P Amico, P Daniele, G Arena, G Ostacoli +; *Inorg.Chim.Acta*, 35, L383 (1979)
1979AOB S Ajayi, A Olin et al; *Acta Chem.Scand.*, A33, 97 (1979)
1979ARA R Aruga; *Australian J.Chem.*, 32, 709 (1979)
1979ASb F Arnaud-Neu, M Schwing-Weill, R Louis; *Inorg.Chem.*, 18, 2956 (1979)
1979BEC M-J Blais, O Enea, G Berthon; *Thermochim.Acta*, 30, 37; 45 (1979)
1979BKa S Brown, B Kowalski; *Anal.Chem.(USA)*, 51, 2133 (1979)
1979BLb J Bessiere, M Lejaille; *Anal.Lett.*, 12, 753 (1979)
1979BRa M Brzezinska, W Reksc; *Pol.J.Chem.*, 53, 2175 (1979)
1979DAb P Daniele, P Amico, G Ostacoli; *Ann.Chim.(Rome)*, 69, 61 (1979)
1979DDd M Dias, J da Silva, A Xavier; *Rev.Port.Quim.*, 21, 5 (1979)
1979EBa J Esmel, G Berthon; *Bull.Soc.Chim.Fr.*, I, 68 (1979)
1979ESa M Ermakova, I Shikhova et al; *Zh.Obshch.Khim.*, 49, 1387 (1979)
1979FHa B Fischer, U Haring, R Tribolet, H Sigel; *Eur.J.Biochem.*, 94, 523 (1979)
1979FLc Y Fridman, G Sycheva, Y Afanas'ev; *Koord.Khim.*, 5, 1132 (1979)
1979GBc K Gupta, S Baghel, J Gaur; *Monatsh.Chem.*, 110, 657 (1979)
1979GBd V Gupta, A Bhat; *Indian J.Chem.*, 18A, 342 (1979)
1979GBf P Govil, S Banerji; *Indian J.Chem.*, 17A, 624 (1979)
1979GCa J Gal, C Calleri, L Elegant, M Azzaro; *Bull.Soc.Chim.Fr.*, I, 311 (1979)
1979GMA R Gualtieri, W McBryde et al; *Can.J.Chem.*, 57, 113 (1979)
1979GOa M Granberg, A Olin et al; *Acta Chem.Scand.*, A33, 561 (1979)
1979GSa C Gupta, N Sankhla, R Mehta; *J.Inorg.Nucl.Chem.*, 41, 1392 (1979)
1979JAb D Jain, L Agarwal; *Indian J.Chem.*, 18A, 83 (1979)
1979JBa P Jadhav, R Bhobe; *J.Inorg.Nucl.Chem.*, 41, 853 (1979)
1979JBb P Jadhav, R Bhobe; *Indian J.Chem.*, 17A, 311 (1979)
1979JKa S Jain, J Kishan et al; *Indian J.Chem.*, 18A, 133 (1979)
1979JPa T Janjic, L Pfendt, M Celap; *J.Inorg.Nucl.Chem.*, 41, 1019 (1979)
1979JPb T Janjic, L Pfendt, V Popov; *J.Inorg.Nucl.Chem.*, 41, 63 (1979)
1979KBC G Kharitonov, V Bolotov, T Kharitonova; *Zh.Neorg.Khim.*, 24, 3337(1858)
(1979)
1979KBe Y Kozlov, V Babich; *Zh.Neorg.Khim.*, 24, 2690(1493) (1979)
1979KBf A Kayali, G Berthon; *J.Electroanal.Chem.*, 104, 337 (1979)
1979KFa I Kruhac, I Filipovic; *Croat.Chem.Acta*, 52, 207 (1979)
1979KHa J Komarek, J Havel, L Sommer; *Coll.Czech.Chem.Comm.*, 44, 3241 (1979)
1979KNb S Kelkar, B Nemade; *Indian J.Chem.*, 18A, 534 (1979)
1979KZa S Kounaves, A Zirino; *Anal.Chim.Acta*, 109, 327 (1979)

1979LGa B Lenarcik, M Gabryszewski, M Wisniewski; Pol. J. Chem., 53, 2429 (1979)
1979LPa S Laurie, D Prime, B Sarkar; Can. J. Chem., 57, 1411 (1979)
1979LRa B Lenarcik, M Rzepka, J Glowacki; Pol. J. Chem., 53, 2199 (1979)
1979LTa L Lamanskii, K Tikhonov; Zh. Neorg. Khim., 24, 921(511) (1979)
1979MAa H Matsui; Denki Kagaku, 47, 466 (1979)
1979MBd J Majer, P Butvin et al; Chem. Zvesti, 33, 742 (1979)
1979MIa P Mitchell; J. Chem. Soc., Dalton Trans., 771 (1979)
1979MNa M Miyazaki, S Nishimura, A Yoshida; Chem. Pharm. Bull., 27, 532 (1979)
1979MPe W McBryde, K Powell; Can. J. Chem., 57, 1785 (1979)
1979MTc V Movchan, F Tulyupa, E Baibarova; Zh. Neorg. Khim., 24, 1603(889) (1979)
1979NNa E Neher-Neumann; Acta Chem. Scand., A33, 421 (1979)
1979NSa T Nozaki, M Sakamoto et al; Nippon Kagaku Kaishi, 891 (1979)
1979NTa S Nushi, M Tkalcec, I Filipovic et al; Croat. Chem. Acta, 52, 17 (1979)
1979OLa W de Oliveira; J. Coord. Chem., 9, 7 (1979)
1979PBa J Poldoski, T Bydalek; J. Inorg. Nucl. Chem., 41, 205 (1979)
1979PJa Y Pathak, G Joshi; Indian J. Chem., 18A, 271 (1979)
1979POa J Podlahova; Coll. Czech. Chem. Comm., 44, 2460 (1979)
1979RPa S Randhawa, B Pannu, S Chopra; Thermochim. Acta, 33, 335 (1979)
1979RSb V Reddy, B Sethuram et al; Indian J. Chem., 17A, 199 (1979)
1979RZa E Rizkalla, M Zaki; Talanta, 26, 507 (1979)
1979SGc N Sachan, C Gupta; Indian J. Chem., 18A, 83 (1979)
1979SGe N Sachan, C Gupta; Indian J. Chem., 18A, 82 (1979)
1979SPd H Stunzi, D Perrin, T Teitei et al; Australian J. Chem., 32, 21 (1979)
1979SRa H Sigel, V Rheinberger, B Fischer; Inorg. Chem., 18, 3334 (1979)
1979SSb K Suyan, N Sachan et al; Indian J. Chem., 18A, 81 (1979)
1979TBb F Tulyupa, E Baibarova et al; Zh. Neorg. Khim., 24, 389(216) (1979)
1979TIb B Trinderup; Acta Chem. Scand., A33, 7 (1979)
1979TRa B Trinderup; Acta Chem. Scand., A33, 7 (1979)
1979WPa C Whitworth, G Pagenkopf; J. Inorg. Nucl. Chem., 41, 317 (1979)
1979YMb T Yoshino, S Murakami et al; Talanta, 26, 479 (1979)
1979ZNa G Zegzda, S Neikovskii et al; Koord. Khim., 5, 632 (1979)
1978AEa B Abdel-Nabey, M El-Ezaby; J. Inorg. Nucl. Chem., 40, 739 (1978)
1978ARA R Aruga; Inorg. Chem., 17, 2503 (1978)
1978ARb A Arevalo, J Rodriguez Placeres, T Moreno; J. Electroanal. Chem., 92, 55 (1978)
1978BBd A Basak, D Banerjea; J. Indian Chem. Soc., 55, 853 (1978)
1978BEa C Riolo et al; Ann. Chim. (Rome), 68, 651 (1978)
1978BPb B Brady, G Pagenkopf; Can. J. Chem., 56, 2331 (1978)
1978BPc S Bhasin, O Prakash; J. Indian Chem. Soc., 55, 1307 (1978)
1978CSa F Capitan, F Salinas, L Capitan-Vallvey; Talanta, 25, 59 (1978)
1978FGa O Forsberg, B Gelland et al; Acta Chem. Scand., A32, 345 (1978)
1978GMc N Ghosh, S Mokhopadyay; Indian J. Chem., 16A, 152 (1978)
1978HAa I Haq; J. Inorg. Nucl. Chem., 40, 1182 (1978)
1978JBa P Jadhav, R Bidkar et al; J. Inorg. Nucl. Chem., 40, 1437 (1978)
1978KCC K Kapoor, G Chaturvedi; Indian J. Chem., 16A, 452 (1978)
1978KHa D Karweik, C Huber; Anal. Chem. (USA), 50, 1209 (1978)
1978KJb R Kapoor, J Jailwal, J Kishan; J. Inorg. Nucl. Chem., 40, 155 (1978)
1978KKb M Kodama, E Kimura; J. Chem. Soc., Dalton Trans., 1081 (1978)
1978KOa J Kowalski; Pol. J. Chem., 52, 2297 (1978)
1978KUa B Kuznik; Pol. J. Chem., 52, 3 (1978)

1978LEb N Latosh, M Ermakova, I Shikhova; Zh.Obshch.Khim., 48, 1913 (1978)
1978LMa J Lehn, F Montavon; Helv.Chim.Acta, 61, 67 (1978)
1978LPa Lutfullah, R Paterson; J.Chem.Soc., Faraday Trans. I, 74, 484 (1978)
1978LRa B Lenarcik, M Rzepka; Pol.J.Chem., 52, 1629 (1978)
1978MCb R Mittal, M Chandra, A Dey; Monatsh.Chem., 109, 853 (1978)
1978MGB P Mathur, D Goel, R Singh; Monatsh.Chem., 109, 839 (1978)
1978MGe P Mathur, D Goel, R Singh; J.Indian Chem.Soc., 55, 879 (1978)
1978MHa F Marsicano, R Hancock; J.Chem.Soc., Dalton Trans., 228 (1978)
1978MJa W Mitchell, M Jones; J.Inorg.Nucl.Chem., 40, 1957 (1978)
1978MMF D Morris, J McCarthy et al; Electrochim.Acta, 23, 1383 (1978)
1978MMg B Mayer, R Medancic, B Grabaric et al; Croat.Chem.Acta, 51, 151 (1978)
1978MSi G Malik, S Singh, J Tandon; J.Prakt.Chem., 320, 324 (1978)
1978NFa G Nifanteva, V Fedorova et al; Koord.Khim., 4, 372 (1978)
1978NLa V Novak, J Lukansky et al; Chem.Zvesti, 32, 32 (1978)
1978NLb V Novak, J Lucansky, M Svicekova, J Majer; Chem.Zvesti, 32, 19 (1978)
1978NSa T Nozaki, M Sakamoto, K Goto, N Higake; Nippon Kagaku Kaishi, 976 (1978)
1978OSa A Olin, P Svanstrom; Acta Chem.Scand., A32, 435 (1978)
1978PSc D Prasad, K Saraswathi; Indian J.Chem., 16A, 1110 (1978)
1978QCa F Quentel, J Cabon et al; Anal.Chim.Acta, 96, 133 (1978)
1978QCb F Quentel, M L'Her, J Courtot-Coupez; Anal.Chim.Acta, 97, 373 (1978)
1978SKg D Sehgal, P Kanungo, R Mehta; Indian J.Chem., 16A, 175 (1978)
1978SLb S Swamy, P Lingaiah; Inorg.Nucl.Chem.Lett., 14, 199 (1978)
1978SPa H Sigel, B Prijs, D McCormick; J.Inorg.Nucl.Chem., 40, 1678 (1978)
1978SSF M Suchanek, L Sucha; Coll.Czech.Chem.Comm., 43, 1393 (1978)
1978SUa N Shimizu, T Uno; Chem.Pharm.Bull., 26, 191 (1978)
1978TPb T Trivedi, M Patel, D Vyas; Indian J.Chem., 16A, 449 (1978)
1978WPa K Warriar, C Pavithran, P Joseph; Indian J.Chem., 16A, 228 (1978)
1978ZGa I Zsigrai, I Gal, R Nikolic; J.Chem.Soc., Dalton Trans., 549 (1978)
1977AAa M Aguilar, S Alegret, E Casassas; J.Inorg.Nucl.Chem., 39, 733 (1977)
1977AHc G Anderegg, E Hubmann, N Podder et al; Helv.Chim.Acta, 60, 123 (1977)
1977ARA R Aruga; J.Inorg.Nucl.Chem., 39, 2159 (1977)
1977ASc F Arnaud-Neu, B Spiess et al; Helv.Chim.Acta, 60, 2633 (1977)
1977ASg F Arnaud-Neu, M Schwing-Weill; Inorg.Nucl.Chem.Lett., 13, 17 (1977)
1977BBb M Blais, G Berthon; Can.J.Chem., 55, 199 (1977)
1977BGa K Burkov, L Garmash, L Lilich; Vestnik Leningr.Univ., 83 (1977)
1977BGb K Burkov, L Garmash; Zh.Neorg.Khim., 22, 536(295) (1977)
1977BNb G Budu, L Nazarova, A Thoryak; Zh.Neorg.Khim., 22, 1128(618) (1977)
1977CAC E Casassas, J Arias-Leon; J.Chim.Phys., 74, 424 (1977)
1977CAD E Casassas, J Arias-Leon; J.Chim.Phys., 74, 324 (1977)
1977ERA M El-Ezaby, M Rashad, N Moussa; J.Inorg.Nucl.Chem., 39, 175 (1977)
1977HDA K Hanck, J Dillard; Anal.Chem.(USA), 49, 404 (1977)
1977HHb G Heath, G Hefter; J.Electroanal.Chem., 84, 295 (1977)
1977JBa P Jadhav, R Bhoje; J.Inorg.Nucl.Chem., 39, 2290 (1977)
1977KCb I Kotlyarova, N Chyhrova, N Skorik; Zh.Neorg.Khim., 22, 1482(807) (1977)
1977KKa M Kodama, E Kimura; J.Chem.Soc., Dalton Trans., 2269 (1977)
1977KLb V Kublanovskii, K Litovchenko, V Nikitenko; Zh.Neorg.Khim., 22, 1795(973)
(1977)
1977LAa R Louis, F Arnaud-Neu et al; Inorg.Nucl.Chem.Lett., 13, 31 (1977)
1977LMa L Lajunen et al; Finn.Chem.Lett.1 (1977)
1977LWa B Lenarcik, M Wisniewski; Roczn.Chem., 51, 1625 (1977)

1977MCa C Makridou, M Cromer-Morin, J-P Scharff; Bull.Soc.Chim.Fr., 59 (1977)
1977MJa A Maheshwari, D Jain, J Gaur; Monatsh.Chem., 108, 279 (1977)
1977MLb O Makitie et al; Finn.Chem.Lett. 31 (1977)
1977MOa H Matsui, H Ohtaki; Bull.Chem.Soc.Jpn., 50, 1472 (1977)
1977MSa G Malik, S Singh, J Tandon; J.Inorg.Nucl.Chem., 39, 1279 (1977)
1977MSd G Malik, S Singh, J Tandon; Monatsh.Chem., 108, 163 (1977)
1977MTa P Migal, V Tsyplakova et al; Zh.Neorg.Khim., 22, 2669(1449) (1977)
1977OHa N Oyama, M Horie, H Matsuda, H Ohtaki; Bull.Chem.Soc.Jpn., 50, 1945 (1977)
1977OMa N Oyama, H Matsuda, H Ohtaki; Bull.Chem.Soc.Jpn., 50, 406 (1977)
1977SIb T Sekine, S Iwahori, S Johnsson et al; J.Inorg.Nucl.Chem., 39, 1092 (1977)
1977SMd B Singhvi, R Mehta; Indian J.Chem., 15A, 471 (1977)
1977STc H Sakurai, S Takeshima; Transition Met.Chem., 2, 103 (1977)
1977WBa M Wilgocki, J Biernat; Roczn.Chem., 51, 1297 (1977)
1977WJa K Warriar, P Joseph, P Das; Indian J.Chem., 15A, 154 (1977)
1976ABd S Ahrland, N Bjork; Acta Chem.Scand., A30, 257 (1976)
1976ABf S Ahrland, N-O Bjork; Acta Chem.Scand., A30, 249 (1976)
1976AGa L-T Ang, D Graddon; J.Inorg.Nucl.Chem., 38, 2279 (1976)
1976AGc L-T Ang, D Graddon; Australian J.Chem., 29, 1429 (1976)
1976BBE A Basak, D Banerjee; Indian J.Chem., 14A, 184 (1976)
1976BHa H Bilinski, R Huston et al; Anal.Chim.Acta, 84, 157 (1976)
1976BMf E Bottari, O Mancini; Ann.Chim.(Rome), 66, 663 (1976)
1976BOc E Bottari; Ann.Chim.(Rome), 66, 677 (1976)
1976BRd B Bachlas, A Rao, B Gupta; Indian J.Chem., 14A, 625 (1976)
1976BSb E Bottari, P Siliberti; Ann.Chim.(Rome), 66, 629 (1976)
1976CGc K Christen, H Gamsjager et al; Chimia, 30, 104 (1976)
1976CJa R Coates, M Jones; J.Inorg.Nucl.Chem., 38, 1549 (1976)
1976CPa J Colin, J Pinert, J Faucherre; Bull.Soc.Chim.Fr., 399 (1976)
1976Cwa A Corrie, M Walker, D Williams; J.Chem.Soc., Dalton Trans., 1012 (1976)
1976DMA R Das, M Misra, B Nanda; Indian J.Chem., 14A, 624 (1976)
1976FHa V Fedorova, A Hokhlova, G Chernikova; Zh.Neorg.Khim., 21, 344(184) (1976)
1976GNa I Gal, R Nikolic, G Herakovic; J.Chem.Soc., Dalton Trans., 104 (1976)
1976GRa B Gupta, A Rah, B Bachlas; J.Inorg.Nucl.Chem., 38, 1163 (1976)
1976GUa Gu Maohuai; Huaxue Tongbao(Chem.China), 1-54 (1976)
1976KAa S Katayman; J.Solution Chem., 5, 241 (1976)
1976KGa I Kruhac, B Grabaric, I Filipovic et al; Croat.Chem.Acta, 48, 119 (1976)
1976KIc T Kotani, I Ichimoto, C Tatsumi, T Fujita; Agr.Biol.Chem., 40, 765 (1976)
1976KNb T Kitagawa, K Nomura; Bull.Chem.Soc.Jpn., 49, 3518 (1976)
1976LAE L Lajunen; Finn.Chem.Lett. 58 (1976)
1976LGa K Lal, S Gupta; Indian J.Chem., 14A, 260 (1976)
1976MHc F Marsicano, R Hancock; J.Coord.Chem., 6, 21 (1976)
1976OMa D Ozha, R Mehta; Indian J.Chem., 14A, 452 (1976)
1976OSb N Oyama, T Shirato, H Matsuda, H Ohtaki; Bull.Chem.Soc.Jpn., 49, 3047 (1976)
1976SFb H Stetter, W Frank; Angew.Chem., 15, 686 (1976)
1976SKc S Sandhu, J Kumaria, R Sandhu; Indian J.Chem., 14A, 817 (1976)
1976SSb S Sandhu, R Sandhu, J Kumaria; Thermochim.Acta, 15, 244 (1976)
1976SSf J Srivastava, M Srivastava; Indian J.Chem., 14A, 818 (1976)
1976TRb P Trinderup; Acta Chem.Scand., A30, 47 (1976)
1976VOa J Velasco, J Ortega, J Sancho; J.Inorg.Nucl.Chem., 38, 889 (1976)
1975AGa A Arevalo, A Gonzalez, J Placeres, T Moreno; An.Quim., 71, 367 (1975)
1975ANA G Anderegg; Helv.Chim.Acta, 58, 1218 (1975)

1975APc G Anderegg, N Podder et al; J.Coord.Chem.,4,267 (1975)
 1975ASb F Arnaud-Neu, M Schwing-Weill; Inorg.Nucl.Chem.Lett.,11,655 (1975)
 1975ASc F Arnaud-Neu, M Schwing-Weill; Inorg.Nucl.Chem.Lett.,11,131 (1975)
 1975BCa S Baghel, K Choudhary, J Gaur; J.Inorg.Nucl.Chem.,37,2513 (1975)
 1975BEa E Baybarova, G Yemelyanenko, L Kukleva; Zh.Neorg.Khim.,20,3194(1765)
 (1975)
 1975BJa E Bottari, R Jasionowska, P Roncaccia; Ann.Chim.(Rome),65,69 (1975)
 1975BMb P Brignac, C Mo; Anal.Chem.(USA),47,1465 (1975)
 1975BNa G Bydy, L Nazarova, A Thoryak; Zh.Neorg.Khim.,20,2904(1608) (1975)
 1975BOa E Bottari; Ann.Chim.(Rome),65,225 (1975)
 1975BOb E Bottari; Monatsh.Chem.,106,451 (1975)
 1975DJB D Dhuley, D Jahagirdar et al; J.Inorg.Nucl.Chem.,37,2135 (1975)
 1975DPb K Dubey, M Puri; Rev.Chim.Minerale,12,255 (1975)
 1975DTa N Dyatlova, V Temkina; Koord.Khim.,1,66 (1975)
 1975FCa V Fedorov, G Chernikova et al; Zh.Neorg.Khim.,20,2912(1613) (1975)
 1975FFa V Fedorov, A Fedorova, G Nifanteva; Zh.Neorg.Khim.,20,2625(1459) (1975)
 1975FFb V Fedorov, A Fedorov, G Nifanteva; Zh.Neorg.Khim.,20,1748(978) (1975)
 1975FFc V Fedorov, A Fedorova et al; Koord.Khim.,1,1378 (1975)
 1975HLC G Heijne, W van der Linden; Talanta,22,923 (1975)
 1975HSb H Henning, K Schulze, M Muhlstadt; Z.Anorg.Allg.Chem.,412,10 (1975)
 1975HTa H Hama, S Takamoto; Nippon Kagaku Kaishi,7,1182 (1975)
 1975IPa M Israeli, L Pettit; J.Chem.Soc.,Dalton Trans.414 (1975)
 1975IPb M Israeli, L Pettit; J.Inorg.Nucl.Chem.,37,999 (1975)
 1975JBa M Jones, A Banks, C Brown; J.Inorg.Nucl.Chem.,37,761 (1975)
 1975JBB J Joshi, P Bhattacharya; Indian J.Chem.,13,88 (1975)
 1975JBC C Jejurkar, P Bhattacharya; Indian J.Chem.,13,622 (1975)
 1975JEa J Jensen; Acta Chem.Scand.,A29,250 (1975)
 1975JTa R Jellish, L Thompson; J.Coord.Chem.,4,199 (1975)
 1975JTb P Joseph, O Thomas, M Rawther, P Mohandas; Indian J.Chem.,13,970 (1975)
 1975KLa M Kutuzova, L Leschinina et al; Zh.Neorg.Khim.,20,817(459) (1975)
 1975LEa T Lengyel; Acta Chim.Acad.Sci.Hung.,85,125 (1975)
 1975LHa J Lauterwein, P Hemmerich, J-M Lhoste; Inorg.Chem.,14,2152 (1975)
 1975LNa K Litovchenko, V Nikitenko, V Kublanov; Koord.Khim.,1,1376 (1975)
 1975LPa D Laing, L Pettit; J.Chem.Soc.,Dalton Trans.2297 (1975)
 1975LSc J Lehn, J Sauvage; J.Am.Chem.Soc.,97,6700 (1975)
 1975LWa P Letkeman, J Westmore; J.Chem.Soc.,Dalton Trans.480 (1975)
 1975MJc A Maheshwari, D Jain, J Gaur; Monatsh.Chem.,106,1033 (1975)
 1975MKa M Mayadeo, M Khabadi et al; Indian J.Chem.,13,520 (1975)
 1975MNa S Morozova, L Nikitina, N Dyallova et al; Zh.Neorg.Khim.,20,413 (1975)
 1975PNa S Pania, K Kaul, R Mehta; Indian J.Chem.,13,295 (1975)
 1975POa J Podlahova; Collec.Czech.Chem.Comm.,40,3306 (1975)
 1975RMa S Ramamoorthy, P Manning; J.Inorg.Nucl.Chem.,37,363 (1975)
 1975SCe P Scoppa; Z.Naturforsch.,30C,555 (1975)
 1975SHA Y Sugiura, Y Hirayama, H Tanaka, H Sakurai; J.Inorg.Nucl.Chem.,37,2367
 (1975)
 1975SNb K Sawada, M Nakano, H Mori, M Tanaka; Bull.Chem.Soc.Jpn.,48,2282 (1975)
 1975SSa D Satyanarayana, G Sahu, R Das; J.Chem.Soc.,Dalton Trans.2236 (1975)
 1975SSb R Sanyal, P Srivastava et al; J.Inorg.Nucl.Chem.,37,343 (1975)
 1975TAa R Tamamushi; Bull.Chem.Soc.Jpn.,48,705 (1975)
 1975VKb V P Vasil'ev, E V Kozlovskii; Zh.Neorg.Khim.,20,1196 (1975)

1975VMa V Vajgand, T Mihajlovic; *Talanta*, 22, 803 (1975)
1975VOa J Velasco, J Ortega, J Sancho; *An. Quim.*, 71, 706 (1975)
1975VUa D Vartak, V Unny; *Indian J. Chem.*, 13, 1345 (1975)
1975ZKa G Zegzda, V Kabanova, F Tulyupa; *Zh. Neorg. Khim.*, 20, 2325(1289) (1975)
1974AAa N Al-Niami, B Al-Saadi; *J. Inorg. Nucl. Chem.*, 36, 1617 (1974)
1974AAb S Ahrland, E Avsar et al; *Acta Chem. Scand.*, A28, 855 (1974)
1974ADa Z Abramyan, N Dyatlova et al; *Zh. Neorg. Khim.*, 19, 1457(793) (1974)
1974ADc I Alekseeva, A Dushina et al; *Zh. Obshch. Khim.*, 44, 477(E:459) (1974)
1974ARA R Aruga; *J. Inorg. Nucl. Chem.*, 36, 3779 (1974)
1974BAa E Belousov, A Alovainikov et al; *Zh. Neorg. Khim.*, 19, 608(E:328) (1974)
1974BIa G Biedermann, J Lagrange, P Lagrange; *Chemica Scripta*, 5, 153 (1974)
1974BJa E Bottari, R Jasionowska et al; *Ann. Chim. (Rome)*, 65, 69 (1974)
1974BLb J Bixler, T Larson; *J. Inorg. Nucl. Chem.*, 36, 224 (1974)
1974BMA E Belousov, V Mironov et al; *Zh. Fiz. Khim.*, 48, 1521(892) (1974)
1974BNb F Bates, Y Nee; *J. Electrochem. Soc.*, 121, 79 (1974)
1974BPa H de Brabander, L van Poucke; *J. Coord. Chem.*, 3, 301 (1974)
1974BWB J Biernat, M Wilgocki; *Rocz. Chem.* 48, 1663 (1974)
1974CCb A Corsini, R Cassidy; *Talanta*, 21, 273 (1974)
1974CGa D Chaturvedi, C Gupta; *J. Inorg. Nucl. Chem.*, 36, 2155 (1974)
1974CPb L Colin, J Pinart; *Bull. Soc. Chim. Fr.*, 2756 (1974)
1974DFa E Dazzi, M Falqui; *Gazz. Chim. Ital.*, 104, 589 (1974)
1974DTa K Doi, M Tanaka; *Anal. Chim. Acta*, 71, 464 (1974)
1974EMa I Eliezer, A Moreno; *J. Chem. Eng. Data*, 19, 226 (1974)
1974FFa V Fedorov, A Fedorova et al; *Zh. Neorg. Khim.*, 19, 990(538) (1974)
1974FKc V Fedorov, L Kiprin, N Shchekina et al; *Zh. Neorg. Khim.*, 19, 872(E:474)
(1974)
1974FRc V Fedorov, A Robov, V Plekhanov et al; *Zh. Neorg. Khim.*, 19, 1225(E:666)
(1974)
1974FSc Y Fridman, D Sarbaev, T Danilova; *Zh. Neorg. Khim.*, 19, 867(E:471) (1974)
1974GAa J Gardiner; *Water Research*, 8, 23 (1974)
1974GSa B Grgas-Kuznar, V Simeon, O Weber; *J. Inorg. Nucl. Chem.*, 36, 2151 (1974)
1974GSd J Going, C Sykora; *Anal. Chim. Acta*, 70, 127 (1974)
1974ILa M Israeli, D Laing, L Pettit; *J. Chem. Soc., Dalton Trans.*, 2194 (1974)
1974JBa M Jones, A Banks, C Brown; *J. Inorg. Nucl. Chem.*, 36, 1833 (1974)
1974KHb J Kollmann, E Hoyer; *J. Prakt. Chem.*, 316, 119 (1974)
1974Knc M Kodama, K Namekawa, T Horiuchi; *Bull. Chem. Soc. Jpn.*, 47, 2011 (1974)
1974LSa P Lingaiah, E Sundaram; *Indian J. Chem.*, 12, 539 (1974)
1974LVa P Lumme, P Virtanen; *Acta Chem. Scand.*, A28, 1055 (1974)
1974MAa S Misumi, M Aihara et al; *Bull. Chem. Soc. Jpn.*, 47, 127 (1974)
1974Mfa K Math, H Freiser; *Talanta*, 21, 1215 (1974)
1974MIb P Mirti; *Anal. Chim. Acta*, 69, 69 (1974)
1974MIc M Mihailov; *J. Inorg. Nucl. Chem.*, 36, 107 (1974)
1974MJa I Mavani, C Jejurkar, P Bhattacharya; *Bull. Chem. Soc. Jpn.*, 47, 1280 (1974)
1974MKa P Migal, E Koptenko; *Zh. Neorg. Khim.*, 19, 322(175) (1974)
1974MKb P Migal, E Koptenko; *Zh. Neorg. Khim.*, 19, 878(477) (1974)
1974MMd M Mihailov, V Mihailova, V Khalkin; *J. Inorg. Nucl. Chem.*, 36, 115 (1974)
1974MOb H Matsui, H Ohtaki; *Bull. Chem. Soc. Jpn.*, 47, 2603 (1974)
1974MSb P Mohandas, O Sunar, C Trivedi; *J. Inorg. Nucl. Chem.*, 36, 937 (1974)
1974NBa K Nag, P Banerjee; *J. Inorg. Nucl. Chem.*, 36, 2145 (1974)
1974NHa J Norman, M Humans; *Anal. Chem. (USA)*, 46, 926 (1974)

1974PBb P Parikh, P Bhattacharya; Indian J.Chem.,12,402 (1974)
1974RAa E Raitanen; Acta Polytech Scand.,(Chem),116 (1974)
1974RBb T Ruzhitskii, V Blokhin et al; Zh.Fiz.Khim.,48,480(E:282) (1974)
1974RGa P Rawat, C Gupta; Indian J.Chem.,12,174 (1974)
1974RMB S Ramamoorthy, P Manning; J.Inorg.Nucl.Chem.,36,695 (1974)
1974RMF E Riecaniska, J Majer, A Bumbalova, M Kalina; Chem.Zvesti,28,332 (1974)
1974SJb H Saarinen et al; Finn.Chem.Lett.146 (1974)
1974SLa V Samoilenko, V Lyashenko, N Polishchuk; Zh.Neorg.Khim.,19,2984(E:1632)
(1974)
1974WwA M Walker, D Williams; J.Chem.Soc.,Dalton Trans.,1186 (1974)
1974YMc N Yellin, Y Marcus; J.Inorg.Nucl.Chem.,36,1325;1331 (1974)
1973AHC T Arishima, K Hamada, S Takamoto; Nippon Kagaku Kaishi,1119 (1973)
1973AMA M Aihara, S Misumi; Bull.Chem.Soc.Jpn.,46,1674 (1973)
1973BBb H Braunstein, J Braunstein, A Minano et al; Inorg.Chem.,12,1407 (1973)
1973BBF H Braunstein, J Braunstein, P Hardesty; J.Phys.Chem.,77,1907 (1973)
1973BCb A Bellomo, A Casale et al; Talanta,20,335 (1973)
1973BJa J Bjerrum; Acta Chem.Scand.,27,970 (1973)
1973BMA A Burdin, J Meslplede, M Porthault; Compt.Rend.,276C,173 (1973)
1973BNb G Budu, L Nazarova; Zh.Neorg.Khim.,18,11 (1973)
1973BSa C Bhandari, N Sogani; Bull.Acad.Polon.Sci.Chim.,21,239 (1973)
1973BSc C Bhandari, N Sogani; J.Inst.Chem.,(India),45,138 (1973)
1973BSe B Budesinsky, M Sagat; Talanta,20,228 (1973)
1973CPC B Choudhary, B Prasad; J.Indian Chem.Soc.,50,153 (1973)
1973CPd H Creyf, L van Poucke; J.Inorg.Nucl.Chem.,35,3837 (1973)
1973DSa P Das, O Sunar, C Trivedi; J.Inorg.Nucl.Chem.,35,316;677 (1973)
1973DSb P Das, O Sunar, C Trivedi; J.Inorg.Nucl.Chem.,35,849 (1973)
1973FCa V Fedorov, G Chernikova et al; Zh.Neorg.Khim.,18,645(E:337) (1973)
1973FDb A Fridman, N Dyatlova, Z Abramyan et al; Zh.Neorg.Khim.,18,2377(E:1257)
(1973)
1973FDc A Fridman, N Dyatlova, Z Abramyan et al; Zh.Neorg.Khim.,18,952(E:500)
(1973)
1973FWa D Feakins, A Willmott, A Willmott; J.Chem.Soc.,Faraday Trans.I,69,122
(1973)
1973GZa S Gusev, M Zhvakina, I Kozhevnikova; Zh.Neorg.Khim.,18,1,66 (1973)
1973HHb M Hutchinson, W Higginson; J.Chem.Soc.,Dalton Trans.,1247 (1973)
1973HSa S Hietanen, L Sillen, E Hogfeldt; Chemica Scripta,3,23;65 (1973)
1973ISa F Ichikawa, T Sato; J.Inorg.Nucl.Chem.,35,2592 (1973)
1973IVa J Israeli, R Volpe; Bull.Soc.Chim.Fr.,43 (1973)
1973KCa S Khurana, D Chaturvedi, C Gupta; J.Inorg.Nucl.Chem.,35,1645 (1973)
1973KGa S Khurana, C Gupta; J.Inorg.Nucl.Chem.,35,209 (1973)
1973KGb S Khurana, C Gupta; Talanta,20,789 (1973)
1973KSd F Kai, Y Sadakane, H Yokoi, H Aburada; J.Inorg.Nucl.Chem.,35,2128 (1973)
1973KUb R Krannich, E Uhlig; Z.Anorg.Allg.Chem.,402,285 (1973)
1973MBd P Migal, E Brunk; Zh.Neorg.Khim.,18,4,946 (1973)
1973MMA S Mohanty, U Mishra, K Singh, P Das; J.Indian Chem.Soc.,50,302 (1973)
1973MSd M Mittal, R Saxena, A Pandey; J.Inorg.Nucl.Chem.,35,1691 (1973)
1973MWA J Ma, J Wang, N Li; J.Coord.Chem.,2,281 (1973)
1973NHb T Nozaki, T Hashimoto; Nippon Kagaku Kaishi,1794 (1973)
1973NMb T Nozaki, T Mise, K Torii; Nippon Kagaku Kaishi,2030 (1973)
1973NPa S Nushi, I Piljac, B Grabaric et al; Croat.Chem.Acta,45,453 (1973)

1973POa H Powell; J.Chem.Soc.,Dalton Trans.,1947 (1973)
1973RAC R Romanetti,G Antonetti,J Galea; J.Chim.Phys.,70,1709 (1973)
1973RBb D Rabenstein,G Blakney; Inorg.Chem.,12,128 (1973)
1973RBC E Russeva,O Budevsky; Talanta,20,1329 (1973)
1973RSc C Ruzycski,Y Solovev et al; Zh.Neorg.Khim.,18,57(E:28) (1973)
1973SFa S Shimokawa,H Fukui,J Sohma,K Hotta; J.Am.Chem.Soc.,95,1777 (1973)
1973SPb H Sinha,B Prasad; J.Indian Chem.Soc.,50,177 (1973)
1973TMb V Tsipliyakova,P Migal,V Iorga; Zh.Neorg.Khim.,18,1191 (1973)
1973TSb R Tewari,M Srivastava; J.Inorg.Nucl.Chem.,35,2441;3044 (1973)
1973UMa E Uhlemann,H Motzny,G Wilke; Z.Anorg.Allg.Chem.,401,255 (1973)
1973UWb E Uhlig,D Walther; Z.Anorg.Allg.Chem.,397,187 (1973)
1972AUa W Achilles,E Uhlig; Z.Anorg.Allg.Chem.,390,225 (1972)
1972BBa Y Bokra,G Berthon; J.Chim.Phys.,69,414;421 (1972)
1972BBc A Brunetti,E Burke,M Lim,G Nancollas; J.Solution Chem.,1,153 (1972)
1972BHB A Bond,G Hefter; J.Electroanal.Chem.,34,227 (1972)
1972BMc A Braibanti,G Mori,F Dallavalle et al; Inorg.Chim.Acta,6,106 (1972)
1972BMe A Bellomo,D de Marco et al; Talanta,19,1236 (1972)
1972BPa M Bonnet,R Paris,R Martin; Bull.Soc.Chim.Fr.,903;909 (1972)
1972CAC S Chakrabarti,S Aditya; J.Chem.Eng.Data,17,46 (1972)
1972CGB D Chaturvedi,C Gupta; Zh.Anal.Khim.,260,120 (1972)
1972COa E Constantinescu; Rev.Roumaine Chim.,17,1819 (1972)
1972DKa E Dvorakova,B Kopecka,J Majer et al; Chem.Zvesti,26,316 (1972)
1972FDD Y Fridman,T Danilova; Zh.Neorg.Khim.,17,946 (1972)
1972FGb G Ford,P Gans,L Pettit,C Sherrington; J.Chem.Soc.,Dalton Trans.,1763
(1972)
1972FKc V Fedorov,L Kiprin,V Mironov; Zh.Neorg.Khim.,17,1233(E:641) (1972)
1972FVa J Frausto da Silva,M Vaz; Rev.Port.Quim.,14,102 (1972)
1972GBe I Gorelov,V Babich; Zh.Obshch.Khim.,42,434 (1972)
1972GSg S Grachev,L Shchelkunova et al; Zh.Neorg.Khim.,17,5,1364 (1972)
1972GTa D Giron-Forest,G Thomas; Bull.Soc.Chim.Fr.,390 (1972)
1972HUa T Hata,T Uno; Bull.Chem.Soc.Jpn.,45,2497 (1972)
1972HUb T Hata,T Uno; Bull.Chem.Soc.Jpn.,45,477;2497 (1972)
1972IJb R Izatt,H Johnson,J Christensen; J.Chem.Soc.,Dalton Trans.,1152 (1972)
1972IVa J Israeli,R Volpe; Bull.Soc.Chim.Fr.,1277 (1972)
1972IVb J Israeli,R Volpe; Bull.Soc.Chim.Fr.,1681 (1972)
1972IVc J Israeli,R Volpe; Inorg.Chim.Acta,6,5 (1972)
1972JEa J Jensen; Acta Chem.Scand.,26,4031 (1972)
1972JJa Z Jablonski,H Jablonski,W Gorzelany; Roczn.Chem.,46,365;2349 (1972)
1972JSb A Jagtiani,I Siddiqui,H Tyrrell; J.Chem.Soc.,Faraday Trans.I,68,2090
(1972)
1972KGa S Khurana,C Gupta; J.Inorg.Nucl.Chem.,34,2557 (1972)
1972KGB S Khurana,C Gupta; Talanta,19,1235 (1972)
1972MAC S Mizumi,M Aihara; Talanta,19,549 (1972)
1972MCb G Manku,R Chadha,N Nayar,M Sethi; J.Inorg.Nucl.Chem.,34,1091 (1972)
1972MJa I Mavani,C Jejurkar,P Bhattacharya; J.Indian Chem.Soc.,49,469 (1972)
1972NEb L Nazarova,T Efremova,S Ohrenstein; Zh.Neorg.Khim.,17,357(E:186) (1972)
1972NGa R Nikolic,I Gal; J.Chem.Soc.,Dalton Trans.,162 (1972)
1972PGc M Palrecha,J Gauer; J.Indian Chem.Soc.,49,313 (1972)
1972PIa K Pitzer; J.Chem.Soc.,Faraday Trans.II,68,101 (1972)
1972RBA D Rorabacher,B Blencoe,D Parker; Anal.Chem.,44,2339 (1972)

1972RBb E Russeva, O Budevsky; Itz.Otd.Khim.Nauki, Bulg., 5, 253 (1972)
1972RGb P Rawat, C Gupta; J.Inorg.Nucl.Chem., 34, 951, 1621 (1972)
1972RLb D Rabenstein, S Libich; Inorg.Chem., 11, 2960 (1972)
1972Sdb N Shori, Y Dutt, R Singh; J.Inorg.Nucl.Chem., 34, 2007 (1972)
1972Tbc V Toropova, F Baryshina et al; Zh.Obshch.Khim., 42, 214 (1972)
1972Tca V Toropova, R Cherkasov, N Savelyeva et al; Zh.Obshch.Khim., 42, 7, 1485
(1972)
1972TOa B Topazovski; God.Zb., Univ.Skopje, 22, 199; 237 (1972)
1972TPa K Tripathy, R Patnaik, S Pani; J.Indian Chem.Soc., 49, 345 (1972)
1972TSf C Trivedi, O Sunar, S Tak; J.Inorg.Nucl.Chem., 34, 907 (1972)
1972YTa K Yamamoto, H Tabata; Talanta, 19, 582 (1972)
1971AAb A Andrews, D Armitage, R Broadbank et al; Trans.Faraday Soc., 67, 128 (1971)
1971ANa G Anderegg; Helv.Chim.Acta, 54, 509 (1971)
1971ANb L Anisimova; Sbornik.soobsch Dag.Univ., Khim., 7, 90 (1971)
1971AWa G Anderegg, F Wenk; Helv.Chim.Acta, 54, 216 (1971)
1971BBb J Braunstein, H Braunstein; J.Chem.Soc., Chem.Comm., 565 (1971)
1971BDc A Braibanti, F Dallavalle et al; Inorg.Chim.Acta, 5, 449 (1971)
1971BLb G Berthon, C Luca; Chim.Anal.(Paris), 53, 40; 501; 559; 611 (1971)
1971BSf B Budesinsky, J Svec; Inorg.Chem., 10, 313 (1971)
1971DDb R Das, A Dash et al; Thermochim.Acta, 2, 435 (1971)
1971DGb D Dakternieks, D Graddon; Australian J.Chem., 24, 2077; 2509 (1971)
1971DTb J Devynck, B Tremillon; J.Electroanal.Chem., 30, 443 (1971)
1971DTc R Dietzel, P Thomas; Z.Anorg.Allg.Chem., 381, 214 (1971)
1971FCb V Fedorov, G Chernikova, T Kalosh et al; Zh.Neorg.Khim., 16, 325(E:170)
(1971)
1971FCc V Fedorov, G Chernikova, V Mironov; Zh.Neorg.Khim., 16, 918(E:489) (1971)
1971FDa Y Fridman, T Danilova; Zh.Neorg.Khim., 16, 1, 65 (1971)
1971FPa G Ford, L Pettit, C Sherrington; J.Inorg.Nucl.Chem., 33, 4119 (1971)
1971GEa A Goeminne, Z Eeckhaut; Bull.Soc.Chim.Belges, 80, 605 (1971)
1971GTa A Gubeli, R Taillon; Helv.Chim.Acta, 54, 2559 (1971)
1971GZa S Gusev, M Zhvakina, I Kozhevnikova; Zh.Anal.Khim., 26, 8, 1493 (1971)
1971HBa K Hougbossa, G Berthon; Compt.Rend., 273C, 1247 (1971)
1971ICa J Israeli, J Cayouette; Can.J.Chem., 49, 199 (1971)
1971ICb J Israeli, J Cayouette; J.Inorg.Nucl.Chem., 33, 1523 (1971)
1971ICc J Israeli, J Cayouette, R Volpe; Talanta, 18, 737 (1971)
1971IJa R Izatt, H Johnston et al; Thermochim.Acta, 2, 77 (1971)
1971ISa H Irving, K Sharpe; J.Inorg.Nucl.Chem., 33, 203; 217; 233 (1971)
1971IVb J Israeli, R Volpe; J.Inorg.Nucl.Chem., 33, 4358 (1971)
1971JGb Z Jablonski, W Gorzelany; Roczn.Chem., 45, 1807 (1971)
1971KEb A Kereichuk; Zh.Neorg.Khim., 16, 1424(E:751) (1971)
1971KSd B Kuznik, D Sulikowska; Roczn.Chem., 45, 959 (1971)
1971MAa G Manku; Australian J.Chem., 24, 925 (1971)
1971MAb G Manku; J.Inorg.Nucl.Chem., 33, 285 (1971)
1971MAd M Macovschi; Rev.Roumaine Chim., 16, 417 (1971)
1971MGa R Mehta, R Gupta, V Singhi; Isr.J.Chem., 9, 589 (1971)
1971MOa K Momoki, H Ogawa; Anal.Chem., 43, 1664 (1971)
1971MSf O Makitie, H Saarinen; Suomen Kem., B44, 180; 209 (1971)
1971MSh R Mehta, V Singhi, R Gupta; Z.Naturforsch., 26B, 867 (1971)
1971NTa T Nozaki, A Tanaka, T Nishimoto; Nippon Kagaku Kaishi, 92, 159 (1971)
1971NVb L Nazarova, Z Vaisbein; Zh.Neorg.Khim., 16, 12, 3216 (1971)

1971PEc H Persson; Acta Chem.Scand.,25,543 (1971)
1971PWa P Paoletti,R Walser,A Vacca et al; Helv.Chim.Acta,54,243 (1971)
1971SAh V Samoilenko; Zh.Neorg.Khim.,16,336(E:175) (1971)
1971SBb R Sharma,P Bhattacharya; J.Indian Chem.Soc.,48,581 (1971)
1971SRa F Snavely,N Rosenblum,P Danielson et al; J.Inorg.Nucl.Chem.,33,455
(1971)
1971SWa G Schwarzenbach,R Walser; Coord.Chem.Vol.I.(NY),450 (1971)
1971TCa V Toropova,R Cherkasov,N Savelyeva et al;
Zh.Obshch.Khim.,41,7,1469;8,1673 (1971)
1971TLa J Tummavuori,P Lumme; Suomen Kem.,B44,215;222;343;350 (1971)
1971TMe V Tsipliyakova,P Migal,E Gluzman; Zh.Neorg.Khim.,16,2625 (1971)
1971TMF V Tsipliyakova,P Migal,N Syen; Zh.Neorg.Khim.,16,9,2341 (1971)
1971TSh J Tandon,G Sharma; J.Prakt.Chem.,313,993 (1971)
1971TSj J Tandon,G Sharma; Talanta,18,1163 (1971)
1971UWa P Ullgren,O Wahlberg; Acta Chem.Scand.,25,1064;1079 (1971)
1971WSa O Weber,V Simeon; Biochim.Biophys.Acta,244,94 (1971)
1971WSd O Weber,V Simeon; J.Inorg.Nucl.Chem.,33,2097 (1971)
1971YMb A Yingst,A Martell; J.Inorg.Nucl.Chem.,33,1693 (1971)
1970ARb R Arnek; Ark.Kemi.,32,55 (1970)
1970BAa H Buhler,G Anderegg; Chimia,24,433 (1970)
1970BLa G Berthon,C Luca; Anal.Chim.Acta,51,239 (1970)
1970BOa A Bond,T O'Donnell; J.Electroanal.Chem.,26,137 (1970)
1970BTa J Bunting,K Thong; Can.J.Chem.,48,1654 (1970)
1970CBc A Corsini,E Billo; J.Inorg.Nucl.Chem.,32,1249 (1970)
1970CLa J Carney,H Laitinen; Anal.Chem.,42,473 (1970)
1970DDa S Dube,S Dhindsa; Can.J.Chem.,48,1007 (1970)
1970DKa E Dvorakova,B Kopecka,J Majer et al; Chem.Zvesti,26,316 (1970)
1970DNa G Degischer,G Nancollas; Inorg.Chem.,9,1259 (1970)
1970DSe V Dubinskii,V Shulman; Zh.Neorg.Khim.,15,1488(E:764) (1970)
1970FAa M Falqui; Rend.Semin.Univ.Cagliari,40,291;303;313 (1970)
1970FBa I Filipovic,A Bujak,V Vukicevic; Croat.Chem.Acta,42,493 (1970)
1970FGa A Fogg,A Gray,D Burns; Anal.Chim.Acta,51,265 (1970)
1970FMa I Filipovic,T Matusinovic,B Mayer et al; Croat.Chem.Acta,42,541 (1970)
1970FUa Y Fujii,T Ueda,M Kodama; Bull.Chem.Soc.Jpn.,43,409 (1970)
1970GDa D Goel,Y Dutt,R Singh; J.Inorg.Nucl.Chem.,32,2119 (1970)
1970GDb N Ghosh,M Dasgupta; Z.Anorg.Allg.Chem.,375,315 (1970)
1970GMb R Gupta,G Manku,A Bhat,B Jain; Australian J.Chem.,23,1387 (1970)
1970GMh R Gupta,G Manku,A Bhat,B Jain; Z.Anorg.Allg.Chem.,379,312 (1970)
1970GPc J Gaur,M Palrecha; J.Inorg.Nucl.Chem.,32,1375 (1970)
1970GSb R Gould,H Sutton; J.Chem.Soc.(A),1184;1439 (1970)
1970GSe D Gupta,Y Singh; J.Indian Chem.Soc.,47,456 (1970)
1970GVa K Girdhar,K Vaidya,P Relam; J.Indian Chem.Soc.,47,715 (1970)
1970GWa E Garrett,D Weber; J.Pharm.Sci.,59,1383 (1970)
1970HAa L Harju; Anal.Chim.Acta,50,475 (1970)
1970HOa M Hirai,Y Oka; Bull.Chem.Soc.Jpn.,43,778 (1970)
1970KAd N Kitajiri,T Arishima,S Takamoto; Nippon Kagaku Kaishi,91,240 (1970)
1970KHa C Kirksey,P Hambright; Inorg.Chem.,9,958 (1970)
1970KMc Y Kidani,M Matsuo,H Koike; Yakugaku Kaishi,90,452;542 (1970)
1970KTc O Khodyanovskii,V Telyakova; Ukr.Khim.Zh.,36,560 (1970)
1970LAB D Lovering,D Alner; J.Chem.Soc.,Chem.Comm.,570 (1970)

1970LAe J Larson; J.Phys.Chem.,74,3392 (1970)
 1970LIb M Liquornik,J Irvine; Inorg.Chem.,9,1330 (1970)
 1970MGd G Manku,R Gupta,A Bhat,B Jain; J.Indian Chem.Soc.,47,776 (1970)
 1970MKg M Matsuo,Y Kidani,H Koike; Yakugaku Kaishi,90,601 (1970)
 1970MMf P Morris,R Martin; J.Inorg.Nucl.Chem.,32,2891 (1970)
 1970MMh O Makitie,H Mattinen; Suomen Kem.,B43,504 (1970)
 1970MPa J Macklin,R Plane; Inorg.Chem.,9,821 (1970)
 1970MSg O Makitie,H Saarinen; J.Inorg.Nucl.Chem.,32,2800 (1970)
 1970NBb L Nazarova,G Budu; Zh.Neorg.Khim.,15,5,1261 (1970)
 1970NMa G Navon,D Meyerstein; J.Phys.Chem.,74,4067 (1970)
 1970NMb M Novakovskii,M Mushkina; Zh.Anal.Khim.,25,6,1092 (1970)
 1970NPb V Nair,S Parthasarathy; J.Inorg.Nucl.Chem.,32,3289;3293;3297 (1970)
 1970OVa G Ostacoli,A Vanni,E Roletto; Gazz.Chim.Ital.,100,350 (1970)
 1970PEa H Persson; Acta Chem.Scand.,24,3739 (1970)
 1970PMA G Popa,V Magearu; An.Univ.Bucuresti,Chim.,19,45 (1970)
 1970RFa R Roulet,J Feuz,T Duc; Helv.Chim.Acta,53,1876 (1970)
 1970RSa P Reilly,R Stokes; Australian J.Chem.,23,1397 (1970)
 1970SAe V Skopenko,R Alasaniya et al; Ukr.Khim.Zh.,36,129 (1970)
 1970SMA H Saarinen,O Makitie; Acta Chem.Scand.,24,2877 (1970)
 1970STf G Sharma,J Tandon; Z.Naturforsch.,25B,22 (1970)
 1970TNa G Tridot,S Nicole,M Wozniak; Chim.Anal.(Paris),52,265 (1970)
 1970TPb F Tulyupa,V Pavlichenko,Y Usatenko; Ukr.Khim.Zh.,36,2,201 (1970)
 1970TTb N Tsirulnikova,V Temkina et al; Zh.Anal.Khim.,25,5,839 (1970)
 1970URa V Udoenko,L Reiter,N Potaskalova; Zh.Neorg.Khim.,15,1,97 (1970)
 1969APa U Anders,J Plambeck; Can.J.Chem.,47,3055 (1969)
 1969BGa F Becker,R Grundmann; Z.Phys.Chem.,(Frankfurt),66,137 (1969)
 1969BNa A Brunetti,G Nancollas,P Smith; J.Am.Chem.Soc.,91,4680 (1969)
 1969BOa A Bond; J.Electroanal.Chem.,20,109;233 (1969)
 1969BOc K Boiko; Ukr.Khim.Zh.,35,596 (1969)
 1969BTd R Belcher,A Townsend,J Farr; Talanta,16,1089 (1969)
 1969CBa A Corsini,E Billo; Can.J.Chem.,47,4655 (1969)
 1969ESb B Evtimova,J Scharff,M Paris; Bull.Soc.Chim.Fr.,81 (1969)
 1969FDb Y Fridman,T Danilova; Zh.Neorg.Khim.,14,3,709(E:370) (1969)
 1969FRa A Fokina,Y Rutkovskii,V Mironov; Zh.Neorg.Khim.,14,1183(E:620) (1969)
 1969GLa D Goddard,B Lodam,S Ajayi et al; J.Chem.Soc.(A),506 (1969)
 1969GSe F Grigorenko,A Suprunenko; Vestnik Kiev Univ.,Ser.Khim.,9,67;10,73
 (1969)
 1969HLa D Hopgood,D Leussing; J.Am.Chem.Soc.,91,3740 (1969)
 1969IEa R Izatt,D Eatough,J Christensen et al; J.Chem.Soc.(A),45;47 (1969)
 1969JCb V Jedinakova,J Celeda; J.Inorg.Nucl.Chem.,31,2793 (1969)
 1969KMb M Kodama,K Miyamoto; Bull.Chem.Soc.Jpn.,42,835 (1969)
 1969KTb M Kodama,Y Tominaga; Bull.Chem.Soc.Jpn.,42,2267 (1969)
 1969LSa S Livingstone,E Sullivan; Australian J.Chem.,22,1363 (1969)
 1969LUa W Lund; Anal.Chim.Acta,45,109 (1969)
 1969MAb L Marple; J.Chem.Soc.(A),2626 (1969)
 1969MAC M Macovschi; Rev.Chim.,(Roumania),20,699 (1969)
 1969MGg R Munze,A Guthert,H Matthes; Zh.Fiz.Khim.,241,240 (1969)
 1969MIa M Mittal; Indian J.Appl.Chem.,32,313 (1969)
 1969MIc P Migal,E Ivanova; Zh.Neorg.Khim.,14,9,2420 (1969)
 1969MMC V Malkova,G Malchikov,B Peshchevitskii; Izv.Sib.Otd.Akad.Nauk SSR,4,131

(1969)

- 1969MOa K Momoki,H Ogawa,H Sato; Anal.Chem.,41,1826 (1969)
1969MPd V Magearu,G Popa; Rev.Roumaine Chim.,14,1399 (1969)
1969MSH O Makitie,H Saarinen; Suomen Kem.,B42,394 (1969)
1969NDA V Novak,E Dvorakova,J Majer; Chem.Zvesti,23,161 (1969)
1969NDb V Novak,E Dvorakova,M Svicekova et al; Chem.Zvesti,23,330 (1969)
1969NDc V Novak,E Dvorakova,M Svicekova et al; Chem.Zvesti,23,861 (1969)
1969PDa G Popa,E Dascalescu; An.Univ.Bucuresti,Chim.,18,93 (1969)
1969Pmb G Popa,V Magearu; Rev.Roumaine Chim.,14,1387 (1969)
1969PMc G Popa,V Magearu; Rev.Roumaine Chim.,14,879 (1969)
1969PPd L Porter,D Perrin,R Hay; J.Chem.Soc.(A),118 (1969)
1969PPf N Polle,E Polle; Zh.Obshch.Khim.,39,7,1619 (1969)
1969PSd K Pool,D Sandberg; Talanta,16,1319 (1969)
1969Rka D Rabenstein,R Kula; J.Am.Chem.Soc.,91,2492 (1969)
1969Rma B Rodriguez,A Mederos; An.Quim.,65,557 (1969)
1969Saa A Sandell; Acta Chem.Scand.,23,478 (1969)
1969Sjc R Saxena,M Jain; Monatsh.Chem.,100,28 (1969)
1969Sma R Sazena,W Milik; Allg.Prakt.Chem.,20,143 (1969)
1969Spa G Sahu,P Prasad; J.Indian Chem.Soc.,46,233 (1969)
1969SSc F Snavely,D Sweigart; Inorg.Chem.,8,1659 (1969)
1969SSf S Saraiya,A Sundaram; Proc.Indian Acad.Sci.,70,120 (1969)
1969SVd V Sochevanov,G Volkova; Zh.Neorg.Khim.,14,118 (1969)
1969TKa T Tanabe,K Kimura,S Takamoto; Nippon Kagaku Kaishi,90,598 (1969)
1969Tma V Tsyplakova,P Migal; Zh.Neorg.Khim.,14,4,954 (1969)
1969Uta E Uhlemann,P Thomas,G Klose,E Arnold; Z.Anorg.Allg.Chem.,364,153 (1969)
1969Vba E Verdier,R Bennes; J.Chim.Phys.,66,1225 (1969)
1969Vma D Vartak,K Menon; J.Inorg.Nucl.Chem.,31,3141 (1969)
1969Vpa E Verdier,J Piro; Ann.Chim.,(France),4,213 (1969)
1969Waa Z Warnke; Roczn.Chem.,43,1939 (1969)
1969Yoa K Yamamoto,K Ohashi; Nippon Kagaku Kaishi,90,1138 (1969)
1969Zsa V Zebic,D Skaric,V Skaric; Croat.Chem.Acta,41,235 (1969)
1968ABa Y Atoks,Y Bankovskii; Izv.Akad.Nauk Latv.SSR,Khim.,1,122 (1968)
1968BHd B Belber,E Hodnett,N Purdie; J.Phys.Chem.,72,2496 (1968)
1968Bmd R Broadbank,B Muju,K Morcom; Trans.Faraday Soc.,64,3318 (1968)
1968Cra D Crow; J.Electroanal.Chem.,16,137 (1968)
1968Dia A Davis,D Irish; Inorg.Chem.,7,1699 (1968)
1968Fpa I Filipovic,I Piljac,A Medved et al; Croat.Chem.Acta,40,131 (1968)
1968GEa P Gerding; Acta Chem.Scand.,22,1283 (1968)
1968GFa G Gutnikov,H Freiser; Anal.Chem.,40,39 (1968)
1968GGf A Golub,V Golovorushkin; Zh.Neorg.Khim.,13,3194 (1968)
1968Gjc P Gerding,I Jonsson; Acta Chem.Scand.,22,2247;2255 (1968)
1968Gsc J Gaur,V Sharma; Acta Chim.Acad.Sci.Hung.,55,249 (1968)
1968HPa D Hames,J Plambeck; Can.J.Chem.,46,1727 (1968)
1968ILa D Inman,D Lovering,R Narayan; Trans.Faraday Soc.,64,2476 (1968)
1968ISa J Israeli,H Saulnier; Inorg.Chim.Acta,2,482 (1968)
1968JGa Z Jablonski,J Gornicki et al; Roczn.Chem.,42,1809 (1968)
1968KAb V Krumina,K Astakhov,S Barkov,V Kornev; Zh.Fiz.Khim.,42,1334 (2524)

(1968)

- 1968Kba W Kemula,K Brajter; Chem.Anal.(Warsaw),13,503 (1968)
1968Ksc M Kodama,C Sasaki; Bull.Chem.Soc.Jpn.,41,127 (1968)

1968KTd S Kundra, L Thompson; *J. Inorg. Nucl. Chem.*, 30, 1847 (1968)
1968KTe O Khotsyanovskii, V Telyakova; *Ukr. Khim. Zh.*, 34, 1126 (1968)
1968LCd J Larson, P Cerutti, H Garber, L Hepler; *J. Phys. Chem.*, 72, 2902 (1968)
1968LPa S Laemi, S Prakash, S Prakash; *Indian J. Chem.*, 6, 31 (1968)
1968MJa J Majer, V Jokl, E Dvorakova et al; *Chem. Zvesti*, 22, 415 (1968)
1968MMb Y Moriguchi, M Miyazaki, K Ueno; *Bull. Chem. Soc. Jpn.*, 41, 1344 (1968)
1968MPc V Magearu, G Popa; *Ser. Stiint. Natur. Chim.*, 17, 91 (1968)
1968MRb J Majer, E Riecancka; *Chem. Zvesti*, 22, 15 (1968)
1968Ova G Ostacoli, A Vanni, E Roletto; *Ricerca Sci.*, 38, 318 (1968)
1968PMc G Popa, V Magearu, C Luca; *J. Electroanal. Chem.*, 17, 335 (1968)
1968PNa K Pan, W Ni; *J. Chin. Chem. Soc. (Formosa)*, 15, 69 (1968)
1968POa N Podder; *Curr. Sci.*, 37, 48 (1968)
1968PRc A Pilipenko, O Ryabushko, T Makarenko; *Ukr. Khim. Zh.*, 34, 8, 823 (1968)
1968PRd B Prasad; *J. Indian Chem. Soc.*, 45, 1037 (1968)
1968Rba J Romary, J Barger, J Bunds; *Inorg. Chem.*, 7, 1142 (1968)
1968RFa J Reyes, H Frye; *Z. Naturforsch.*, 23B, 429; 606 (1968)
1968Rva R Ripan, G Vericeanu; *Stud. Univ. Babes-Bolyai*, 13, 31 (1968)
1968RYa O Ryabushko; *Ukr. Khim. Zh.*, 34, 12, 1299 (1968)
1968SCa D Soucek, K Cheng, H Droll; *Talanta*, 15, 849 (1968)
1968SCc F Smirous, J Celeda; *Collec. Czech. Chem. Commun.*, 33, 1017 (1968)
1968SGc R Saxena, K Gupta; *J. Polarog. Soc.*, 14, 24 (1968)
1968SKd K Suzuki, C Karaki, S Mori, K Yamasaki; *J. Inorg. Nucl. Chem.*, 30, 167 (1968)
1968Smb K Suzuki, T Mattori, K Yamasaki; *J. Inorg. Nucl. Chem.*, 30, 161 (1968)
1968Sna K Suzuki, I Nakano, K Yamasaki; *J. Inorg. Nucl. Chem.*, 30, 545 (1968)
1968SPa R Scharff, M Paris; *Bull. Soc. Chim. Fr.*, 3184 (1968)
1968SRg J Stary, J Ruzicka; *Talanta*, 15, 505 (1968)
1968TFa B Topazovski, I Filipovic; *Croat. Chem. Acta*, 40, 257 (1968)
1968TRc V Temkina, M Risina, L Krinitskaya et al; *Zh. Obshch. Khim.*, 38, 10, 2207 (1968)
1968Vbb E Verdier, R Bennes; *J. Chim. Phys.*, 65, 1465 (1968)
1968VLa V Vasileva, O Lavrova, N Dyatlova et al; *Zh. Obshch. Khim.*, 38, 3, 473 (1968)
1968YTa O Yamauchi, H Tanaka, T Uno; *Talanta*, 15, 177 (1968)
1968ZBa L Zompa, R Bogucki; *J. Am. Chem. Soc.*, 90, 4569 (1968)
1967AKc R Arnek, W Kakolowicz; *Acta Chem. Scand.*, 21, 2180 (1967)
1967ANA R Anderson, G Nickless; *Anal. Chim. Acta*, 39, 469 (1967)
1967EHc W Eilbeck, F Holmes; *J. Chem. Soc. (A)*, 1777 (1967)
1967ETa A Eluard, B Tremillon; *J. Electroanal. Chem.*, 13, 208 (1967)
1967Fba T Flaherty, J Braunstein; *Inorg. Chim. Acta*, 1, 335 (1967)
1967FLc Y Fridman, M Levine; *Zh. Neorg. Khim.*, 12, 1425 (2704) (1967)
1967Fmb A Furlani, M Maltese, E Mantovani; *Gazz. Chim. Ital.*, 97, 1423 (1967)
1967GDb B Gupta, Y Dutt, R Singh; *Indian J. Chem.*, 5, 214; 322 (1967)
1967GGb A Golub, V Golovorushkin; *Izv. VUZ. Khim.*, 10, 754 (1967)
1967GMb N Ghosh, M Majumder; *J. Indian Chem. Soc.*, 44, 559 (1967)
1967GNb D Goddard, S Nwankwo; *J. Chem. Soc. (A)*, 1371 (1967)
1967GSa J Gaur, V Sharma; *Rev. Polarography*, 14, 287 (1967)
1967Hba A Humffray, A Bond, J Forrest; *J. Electroanal. Chem.*, 15, 67 (1967)
1967HEb H Helgeson; *J. Phys. Chem.*, 71, 3121 (1967)
1967HMc A Hulaniccki, M Minczewska; *Talanta*, 14, 677 (1967)
1967JKa D Jain, A Kumar, J Gaur; *J. Inst. Chem.*, (India), 39, 230 (1967)
1967Kba N Kiet, M Breant; *Compt. Rend.*, 264C, 1042 (1967)

1967KBb P Kamat, M Bapat, M Datar; J. Indian Chem. Soc., 44, 731 (1967)
 1967KDa M Kabachnik, I Dyatlova, T Medved; Proc. Acad. Sci. (USSR), 175, 621 (351)
 (1967)
 1967KHc H Kodama, K Hayashi; J. Electroanal. Chem., 14, 209 (1967)
 1967KHd Y Koike, H Hamaguchi; J. Inorg. Nucl. Chem., 29, 473 (1967)
 1967KHf O Khotsyanovskii; Zh. Neorg. Khim., 12, 1179 (1967)
 1967KNb A Kumar, H Nigam; Proc. Indian Acad. Sci., 65A, 119 (1967)
 1967KRb W Kraft; Monatsh. Chem., 98, 1978 (1967)
 1967Kwa Y Kanemura, J Watters; J. Inorg. Nucl. Chem., 29, 1701 (1967)
 1967Lbc P Lammers, J Braunstein; J. Phys. Chem., 71, 2626 (1967)
 1967Lda R Lastovskii, N Dyatlova, I Seliverstova; Zh. Neorg. Khim., 12, 12, 3351 (1967)
 1967Lmd F L'Eplattenier, I Murase, A Martell; J. Am. Chem. Soc., 89, 837 (1967)
 1967Lsc S Larionov, V Shulman, L Podolska; Zh. Neorg. Khim., 12, 1295 (2456) (1967)
 1967Lub C Luca; Bull. Soc. Chim. Fr., 2556 (1967)
 1967MAi O Makitie; Suomen Kem., B40, 27; 128; 267 (1967)
 1967Mfa V Mironov, A Fokina; Zh. Neorg. Khim., 12, 2571 (E:1357) (1967)
 1967Mfb V Mironov, A Fokina, Y Rutkovskii; Zh. Neorg. Khim., 12, 2056 (1967)
 1967Mfc V Mironov, A Fokina; Zh. Neorg. Khim., 12, 2571 (1967)
 1967NAa O Navratil; Collec. Czech. Chem. Commun., 32, 2004 (1967)
 1967Nac L Nazarova; Zh. Neorg. Khim., 12, 1620 (3062) (1967)
 1967Nma T Nozaki, T Mise, K Higaki; Nippon Kagaku Kaishi, 88, 1168 (1967)
 1967Npb G Nickless, F Pollard, T Samuelson; Anal. Chim. Acta, 39, 37 (1967)
 1967NTa G Nancollas, K Torrance; Inorg. Chem., 6, 1567 (1967)
 1967OMA T Oncescu, M Macovschi; An. Univ. Bucuresti, Chim., 16, 77 (1967)
 1967PIb G Popa, E Iosif, C Luca; Rev. Roumaine Chim., 12, 169 (1967)
 1967PRb J Powell, D Rowlands; J. Inorg. Nucl. Chem., 29, 1729 (1967)
 1967Pva R Piras, B Vallee; Biochemistry, 6, 348 (1967)
 1967RPd M Petit-Ramel, M Paris; Bull. Soc. Chim. Fr., 1359 (1967)
 1967Rpe M de Rossi, G Pecci, B Scrosati; Ricerca Sci., 37, 342 (1967)
 1967SFb P Shetty, Q Fernando; J. Inorg. Nucl. Chem., 29, 1921 (1967)
 1967Sgb A Swinarski, A Grodzicki; Roczn. Chem., 41, 1205 (1967)
 1967SMf V Springer, J Majer, B Kopecka; Chem. Zvesti, 21, 481 (1967)
 1967SPb J Scharff, M Paris; Compt. Rend., 265C, 488 (1967)
 1967SSg F Snavely, D Sweigart, C Yoder, A Terzis; Inorg. Chem., 6, 1831 (1967)
 1967SSk R Sundaresan, S Saraiya, A Sundaram; Proc. Indian Acad. Sci., 66A, 120; 184; 246
 (1967)
 1967Tga H Thun, W Guns, F Verbeek; Anal. Chim. Acta, 37, 332 (1967)
 1967TKc E Tucci, C Ke, N Li; J. Inorg. Nucl. Chem., 29, 1657 (1967)
 1967UKa E Uhlig, R Krannich; J. Inorg. Nucl. Chem., 29, 1164 (1967)
 1967Vma V Vasilev, P Mukhina; Izv. VUZ. Khim., 10, 263 (1967)
 1967Yta K Yatsimirskii, L Tikhonova; Zh. Neorg. Khim., 12, 2, 417 (1967)
 1966AAa S Aditya, S Aditya, S Mukherjee; J. Electrochem. Soc. Jpn., 34, 203 (1966)
 1966ACA G Alexandrides, C Cumiskey; J. Inorg. Nucl. Chem., 28, 2025 (1966)
 1966AMc C Auerbach, D McGuire; J. Inorg. Nucl. Chem., 28, 2659 (1966)
 1966APb V Athavale, L Prabhu, D Vartak; J. Inorg. Nucl. Chem., 28, 1237 (1966)
 1966BAd J Braunstein, A Alvarez-Funes et al; J. Phys. Chem., 70, 2734 (1966)
 1966BBh H Braunstein, J Braunstein, D Inman; J. Phys. Chem., 70, 2726 (1966)
 1966Bma J Braunstein, A Minano; Inorg. Chem., 5, 942 (1966)
 1966Bme G Bombi, G Mazzocchin, M Fiorani; Ricerca Sci., 36, 573 (1966)
 1966Bza J Burnett, M Zirin; J. Inorg. Nucl. Chem., 28, 902 (1966)

1966DMA E Dvorakova, J Majer; Chem.Zvesti, 20, 233 (1966)
1966GEa P Gerding; Acta Chem.Scand., 20, 2624; 2771 (1966)
1966GEb P Gerding; Acta Chem.Scand., 20, 79 (1966)
1966GGa J Gaur, N Goswami, D Jain; Anal.Chem., 38, 626 (1966)
1966HHa R Holyer, C Hubbard, S Kettle, R Wilkins; Inorg.Chem., 5, 622 (1966)
1966HPa J Huang, K Pan; J.Chin.Chem.Soc.(Formosa), 13, 64 (1966)
1966HSb M Hnilickova, L Sommer; Talanta, 13, 667 (1966)
1966IWa R Isbell, E Wilson, D Smith; J.Phys.Chem., 70, 2493 (1966)
1966JGa D Jain, J Gaur; J.Electroanal.Chem., 11, 310 (1966)
1966JGc D Jain, J Gaur; J.Polarog.Soc., 12, 59 (1966)
1966KGb W Kraft, H Gamsjager, E Schwarz-Bergkampff; Monatsh.Chem., 97, 1134 (1966)
1966KSb A Krivis, G Supp, R Doerr; Anal.Chem., 38, 936 (1966)
1966KUc H Kaneko, K Ueno; Bull.Chem.Soc.Jpn., 39, 1910 (1966)
1966MAe L Marple; J.Inorg.Nucl.Chem., 28, 1319 (1966)
1966MAG O Makitie; Suomen Kem., B39, 218 (1966)
1966MBb W Masterton, L Berka; J.Phys.Chem., 70, 1924 (1966)
1966MKb J Majer, M Kotoucek, E Dvorakova; Chem.Zvesti, 20, 242 (1966)
1966MSa M Miyazaki, T Senshu, I Tamura; Chem.Pharm.Bull., 14, 114 (1966)
1966MSg J Majer, V Springer, B Kopecka; Chem.Zvesti, 20, 414 (1966)
1966OCb G Ostacoli, E Campi, A Vanni, E Roletto; Ricerca Sci., 36, 427 (1966)
1966PAa O Puplikova, L Akimova, I Savich; Vestnik Moskov Univ., 3, 106 (1966)
1966PIa I Podgornaya, A Ivakin, K Klyachina; Zh.Obshch.Khim., 36, 2044 (2052) (1966)
1966SGa A Swinarski, A Grodzicki; Roczn.Chem., 40, 373 (1966)
1966SLc V Shulman, S Larionov, T Kramareva et al; Zh.Neorg.Khim., 11, 580 (1076)
(1966)
1966SPa I Suffet, W Purdy; J.Electroanal.Chem., 11, 302 (1966)
1966SWa V Simeon, O Weber; Croat.Chem.Acta, 38, 161 (1966)
1966TKa L Thompson, S Kundra; J.Inorg.Nucl.Chem., 28, 2945 (1966)
1966USa E Uhlemann, W Suchan; Z.Anorg.Chem., 342, 41 (1966)
1966VLa V Vasileva, O Lavrova et al; Zh.Obshch.Khim., 36, 4, 674 (1966)
1966VMa D Vartak, N Menon; J.Inorg.Nucl.Chem., 28, 2911 (1966)
1966VQa J Vaissermann, M Quintin; J.Chim.Phys., 63, 731 (1966)
1966WRb J Walter, S Rosalie; J.Inorg.Nucl.Chem., 28, 2969 (1966)
1965ABa G Anderegg, E Bottari; Helv.Chim.Acta, 48, 887 (1965)
1965ANa G Anderegg; Helv.Chim.Acta, 48, 1712; 1718; 1722 (1965)
1965ATA B Adli-Bloch, B Tremillon; Bull.Soc.Chim.Fr., 1683 (1965)
1965AUa T Ando, K Ueno; Inorg.Chem., 4, 375 (1965)
1965BBE S Boyd, A Bryson, G Nancollas, K Torrance; J.Chem.Soc., 7353 (1965)
1965CKa G Conradi, M Kopanica, J Koryta; Collec.Czech.Chem.Comm., 30, 2029 (1965)
1965CMA H Conley, R Martin; J.Phys.Chem., 69, 2923 (1965)
1965CRb D Crow; J.Polarog.Soc., 11, 22; 67 (1965)
1965DFa C Drey, J Fruton; Biochemistry, 4, 1258 (1965)
1965GJa J Gaur, D Jain; Australian J.Chem., 18, 1687 (1965)
1965GSa H Gamsjager, H Stuber, P Schindler; Helv.Chim.Acta, 48, 723 (1965)
1965GTa C Garland, S Tong, W Stockmayer; J.Phys.Chem., 69, 1718 (1965)
1965HAc J Hefley, E Amis; J.Phys.Chem., 69, 2082 (1965)
1965HRa M Heit, D Ryan; Anal.Chim.Acta, 32, 448 (1965)
1965HSc H Hellwege, G Schweitzer; J.Inorg.Nucl.Chem., 27, 99 (1965)
1965INa D Inman; Electrochim.Acta, 10, 11 (1965)
1965JGa D Jain, J Gaur; Bull.Acad.Polon.Sci.Chim., 13, 615 (1965)

1965JGb D Jain, J Gaur; J.Indian Chem.Soc.,42,753,759 (1965)
1965JMa V Jokl, J Majer; Acta Fac.Pharm.Brun.Bratislav.,10,55 (1965)
1965JMb V Jokl, J Majer; Chem.Zvesti,19,249;281 (1965)
1965KSb A Krivis, G Supp, R Doerr; Anal.Chem.,37,52 (1965)
1965LCa R Lacoste, G Christoffers, A Martell; J.Am.Chem.Soc.,87,2385 (1965)
1965MAd L Marple; J.Inorg.Nucl.Chem.,27,1693 (1965)
1965MMb W Malik, M Muzaffaruddin; Australian J.Chem.,18,1397 (1965)
1965MSe P Migal, G Serova; Zh.Neorg.Khim.,10,1366 (2513) (1965)
1965MTa Y Murakami, M Takagi; Bull.Chem.Soc.Jpn.,38,828 (1965)
1965NAb L Nazarova; Zh.Neorg.Khim.,10,1364 (2509) (1965)
1965OGa H Ogino; Bull.Chem.Soc.Jpn.,38,771 (1965)
1965POa R Pottel; Ber.Buns.Phys.Chem.,69,363 (1965)
1965PSe M Partashnikova, I Shafran; Zh.Anal.Khim.,20,288 (313) (1965)
1965RDa D Ryan, J Dean, R Cassidy; Can.J.Chem.,43,999 (1965)
1965SFa E Sekido, Q Fernando, H Freiser; Anal.Chem.,37,1556 (1965)
1965SGa V Sharma, J Gaur; J.Electroanal.Chem.,9,321 (1965)
1965SGb A Swinarski, A Grodzicki; Roczn.Chem.,39,1155 (1965)
1965SMh F Snavely, W Magen, D Kozart; J.Inorg.Nucl.Chem.,27,679 (1965)
1965SPa C Sinistri, E Pezzatti; Ricerca Sci.,35,979 (1965)
1965SSa D Shuman, B Sen; Anal.Chim.Acta,33,487 (1965)
1965SVa D Sellers, N Vanderborgh; J.Am.Chem.Soc.,87,1206 (1965)
1965TFa S Takamoto, Q Fernando, H Freiser; Anal.Chem.,37,1249 (1965)
1965VFa E Verdier, J Fournier; J.Chim.Phys.,62,1196 (1965)
1965Vsa D Vartak, R Shetiya; Indian J.Chem.,3,533 (1965)
1965Vza E Verdier, G Zalessky; J.Chim.Phys.,62,479 (1965)
1965WHa D Wright, J Holloway, C Reilly; Anal.Chem.,37,884 (1965)
1964AMa D Archer, C Monk; J.Chem.Soc.,3117 (1964)
1964ANa G Anderegg; Helv.Chim.Acta,47,1801 (1964)
1964ARa A Andrews, J Romary; J.Chem.Soc.,405 (1964)
1964BLb F Becker, H Luschow; Proc.8th.Int.Conf.Co-ord.Chem.Vienna,334 (1964)
1964BMA J Braunstein, A Minano; Inorg.Chem.,3,218 (1964)
1964BMc E Benyash, T Maslakova; Zh.Neorg.Khim.,9,2731 (1964)
1964BUE E Buketov, M Ugorets, A Pashinkin; Zh.Neorg.Khim.,9,526 (1964)
1964COB E Campi, G Ostacoli, M Meirone, G Saini; J.Inorg.Nucl.Chem.,26,553 (1964)
1964COd E Campi, G Ostacoli, A Vanni, E Casorati; Ricerca Sci.,34 (II-A6),341
(1964)
1964DSc N Dyatlova, I Seliverstova, V Yashunskii; Zh.Obshch.Khim.,34,4061 (4003)
(1964)
1964EMb H Ellison, A Martell; J.Inorg.Nucl.Chem.,26,1555 (1964)
1964GHd R Green, P Hallman, F Lions; Inorg.Chem.,3,376 (1964)
1964GSd A Golub, V Samoilenko; Zh.Neorg.Khim.,9,70 (1964)
1964HBa J Hess, J Braunstein, H Braunstein; J.Inorg.Nucl.Chem.,26,811 (1964)
1964ICb H Irving, J Conesa; J.Inorg.Nucl.Chem.,26,1945 (1964)
1964JOa V Jokl; J.Chromatography,14,71 (1964)
1964KLa O Kolling, J Lambert; Inorg.Chem.,3,202 (1964)
1964KSe V Kumok, V Serebrennikov; Zh.Neorg.Khim.,9,2148 (1964)
1964LAa F L'Epplattenier, G Anderegg; Helv.Chim.Acta,47,1792 (1964)
1964LMA G Lenz, A Martell; Biochemistry,3,745;750 (1964)
1964LMb R Lacoste, A Martell; Inorg.Chem.,3,881 (1964)
1964MKe V Mironov, F Kulba, A Fokina et al; Zh.Neorg.Khim.,9,2133 (1964)

1964MLa M Mandel, J Leyte; J.Polymer Sci.(part A),2,2883 (1964)
1964MNa J Majer, V Novak, M Svicekova; Chem.Zvesti,18,481 (1964)
1964MSd P Migal, G Serova; Zh.Neorg.Khim.,9,978 (1806) (1964)
1964MTd P Migal, V Tsipliyakova; Zh.Neorg.Khim.,9,333 (601) (1964)
1964NAe L Nazarova, A Ablov, V Dagaev; Zh.Neorg.Khim.,9,1150 (2129) (1964)
1964OTa M Otomo; Bull.Chem.Soc.Jpn.,37,504 (1964)
1964PCa Personal Communication etc; Chem.Soc.Spec.Publ.,no.17 (1964)
1964PIa L Pettit, H Irving; J.Chem.Soc.,5336 (1964)
1964RPa P Rock, R Powell; Inorg.Chem.,3,1593 (1964)
1964RSb T Radhakrishnan, S Saraiya, A Sundaram; J.Indian Chem.Soc.,41,521 (1964)
1964RSd T Radhakrishnan, S Saraiya, A Sundaram; J.Inorg.Nucl.Chem.,26,382 (1964)
1964RSe G Rao, R Subrahmanya; Proc.Indian Acad.Sci.,60,165;185 (1964)
1964SMD V Spivakovskii, L Moisa; Zh.Neorg.Khim.,9,2287 (1964)
1964STb J Ste-Marie, A Torma, A Gubeli; Can.J.Chem.,42,662 (1964)
1964STc F Snavely, W Trahanovsky, F Suydam; Inorg.Chem.,3,123 (1964)
1964TCa S Tribalat, J Caldero; Compt.Rend.,258,2828 (1964)
1964TTa E Tucci, F Tskahashi, V Tucci, N Li; J.Inorg.Nucl.Chem.,26,1263 (1964)
1964VGB V Vasilev, N Grechina; Zh.Neorg.Khim.,9,647 (1964)
1964VTa J Valteau, S Turner; Can.J.Chem.,42,1186 (1964)
1964WIa R Wilkins; Inorg.Chem.,3,520 (1964)
1963AEa G Anderegg, F L'Eplattenier, Schwarzenbach; Helv.Chim.Acta,46,1390,1400;
1409 (1963)
1963ANa T Ando; Bull.Chem.Soc.Jpn.,36,1593 (1963)
1963ANb G Anderegg; Helv.Chim.Acta,46,1833;2813 (1963)
1963ANf G Anderegg; Helv.Chim.Acta,46;1833 (1963)
1963ANG G Anderegg; Helv.Chim.Acta,46,2397 (1963)
1963ARa A Andrews, J Romary; Inorg.Chem.,2,1060 (1963)
1963CAa E Campi; Ann.Chim.(Italy),53,96 (1963)
1963CAC M Cadiot-Smith; J.Chim.Phys.,60,957,976,991 (1963)
1963CEa E Coates, J Evans, B Rigg; Trans.Faraday Soc.,59,2369 (1963)
1963CRa A Christensen, S Rasmussen; Acta Chem.Scand.,17,1315 (1963)
1963DBa J Dale, C Banks; Inorg.Chem.,2,591 (1963)
1963DGD Y Delimarskii, V Grishchenko; Ukr.Khim.Zh.,29;502,507 (1963)
1963DKa A Desai, M Kabadi; Curr.Sci.,32,15 (1963)
1963DSa Y Dutt, R Singh; Indian J.Chem.,1,402 (1963)
1963FPb V Frei, J Podlahova; Chemiker Z.,87,47 (1963)
1963FVa Y Fridman, R Veresova, N Dolgashova; Zh.Neorg.Khim.,8,344 (676) (1963)
1963GCb R Green, K Catchpole, A Phillip, F Lions; Inorg.Chem.,2,597 (1963)
1963IFa H Irving, J Frausto da Silva; J.Chem.Soc.,1144 (1963)
1963IFc H Irving, J Frausto da Silva; J.Chem.Soc.,945 (1963)
1963LRb J Liljenzin, H Reinhardt, H Wirries et al; Z.Naturforsch.,18A,840 (1963)
1963MHa S Mesaric, D Hume; Inorg.Chem.,2,1063 (1963)
1963MNe V Mironov, V Nazarov; Zh.Neorg.Khim.,8,916;1857 (1963)
1963MSe W Malik, A Salahuddin; Nature,200,1204 (1963)
1963MTa P Migal, V Tsipliyakova; Zh.Neorg.Khim.,8,319 (629) (1963)
1963SCb P Schindler; Chimia,17,313 (1963)
1963STc J Stary; Anal.Chim.Acta,28,132 (1963)
1963SYa F Snavely, C Yoder, F Suydam; Inorg.Chem.,2,708 (1963)
1963TCb S Tribalat, J Caldero; J.Electroanal.Chem.,5,176 (1963)
1963VMa V Vasilev, P Mukhina; Zh.Neorg.Khim.,8,1895 (1963)

1963ZGa V Zolotukhin, Z Galanets; *Visn. L'vivsk. Derzh. Univ., Ser. Khim.*, 19; 91 (1963)
1962ANb G Anderegg; *Helv. Chim. Acta*, 45, 1303 (1962)
1962APa V Altynov, B Ptitsyn; *Zh. Neorg. Khim.*, 7, 2103 (1962)
1962BCb G Biedermann, L Ciavatta; *Acta Chem. Scand.*, 16, 2221 (1962)
1962BDC O Bonner, H Dolyniuk, C Jordan, G Hanson; *J. Inorg. Nucl. Chem.*, 24, 689 (1962)
1962BEa S Bolton, R Ellin; *J. Pharm. Sci.*, 51, 533 (1962)
1962BHa J Braunstein, J Hess; US AEC - Report TID, 15741 (1962)
1962BLb J Braunstein, R Lindgren; *J. Am. Chem. Soc.*, 84, 1529; 1534 (1962)
1962BSc D Banerjea, I Singh; *J. Indian Chem. Soc.*, 39, 353 (1962)
1962DLa D Dyrssen, P Lumme; *Acta Chem. Scand.*, 16, 1785 (1962)
1962DYa D Dyrssen; *Trans. Roy. Inst. Tech. (Stockholm)*, 188; 1962 (1962)
1962GAa A Golub, O Andrichenko; *Zh. Neorg. Khim.*, 7, 549 (1962)
1962GOa R Green, G Ooi; *Australian J. Chem.*, 15, 786 (1962)
1962IMa H Irving, D Mellor; *J. Chem. Soc.*, 5222; 5237 (1962)
1962JPa P Jena, B Prasad; *J. Indian Chem. Soc.*, 39, 33 (1962)
1962JSa E Jacobsen, K Schroder; *Acta Chem. Scand.*, 16, 1393 (1962)
1962KPa R Kolat, J Powell; *Inorg. Chem.*, 1, 293 (1962)
1962KRa E Kuchinkos, Y Rosen; *Arch. Biochem. Biophys.*, 97, 370 (1962)
1962LGa V Latysheva, L Goryanina; *Zh. Neorg. Khim.*, 7, 732 (1962)
1962MBA W McBryde, D Brisbin, H Irving; *J. Chem. Soc.*, 5245 (1962)
1962MGa P Migal, N Grinberg; *Zh. Neorg. Khim.*, 7, 268(527), 675(1309) (1962)
1962MGB P Migal, N Grinberg; *Zh. Neorg. Khim.*, 7, 270 (531) (1962)
1962MGC P Migal, N Grinberg; *Zh. Neorg. Khim.*, 7, 531 (1962)
1962MMc J Mackey, M Miller, J Powell; *J. Phys. Chem.*, 66, 311 (1962)
1962MRa D McMasters, J di Raimondo, L Jones et al; *J. Phys. Chem.*, 66, 249 (688)
(1962)
1962MSa P Migal, G Serova; *Zh. Neorg. Khim.*, 7, 827 (1601) (1962)
1962NMh M Novakovskii, M Mushkina; *Zh. Neorg. Khim.*, 7, 1068 (1962)
1962RSa G Rao, R Subrahmanya; *Curr. Sci.*, 1962, 31, 55 (1962)
1962RSb G Rao, R Subrahmanya; *Curr. Sci.*, 31, 55 (1962)
1962SCb J Smith, A Cruickshank, J Donoghue et al; *Inorg. Chem.*, 1, 148 (1962)
1962SCc F Snavely, G Craver; *Inorg. Chem.*, 1, 890 (1962)
1962SIc C Sinistri; *Ricerca Sci.*, 2, 638 (1962)
1962SSa S Saraiya, V Srinivasan, A Sundaram; *Curr. Sci.*, 31, 187 (1962)
1962SSc G Schwarzenbach, I Szilard; *Helv. Chim. Acta*, 45, 1222 (1962)
1962SYa K Suzuki, K Yamasaki; *J. Inorg. Nucl. Chem.*, 24, 1093 (1962)
1962TAB P Teyssie, G Anderegg, G Schwarzenbach; *Bull. Soc. Chim. Belges*, 71, 177 (1962)
1962TCa S Tribalat, J Caldero; *Compt. Rend.*, 255, 925 (1962)
1962VAb V Vasilev; *Zh. Neorg. Khim.*, 7, 555 (1962)
1961AMa S Armanet, J Merlin; *Bull. Soc. Chim. Fr.*, 440 (1961)
1961CAa V Chukhlantsev, K Alyamovskaya; *Isvest. VUZ. Khim.*, 4, 359; 706 (1961)
1961DGB F Duke, H Garfinkel; *J. Phys. Chem.*, 65, 1627 (1961)
1961DKa A Desai, M Kabadi; *J. Indian Chem. Soc.*, 38, 805 (1961)
1961DSa C Dragulescu, T Simonescu, I Menessy; *Stud. Cercet. Chim. Timisoara*, 8, 10
(1961)
1961ELa N Elenkova; *Ann. Sup. Chim. Tech. Sofia*, 8, 125 (1961)
1961FRb Y Fridman; *Zh. Neorg. Khim.*, 6, 1501 (1961)
1961HSb M Hnilickova, L Sommer; *Collec. Czech. Chem. Commun.*, 26, 2189 (1961)
1961IBa D Inman, J Bockris; *Trans. Faraday Society*, 57, 2308 (1961)
1961ISa H Irving, M Stacey; *J. Chem. Soc.*, 2019 (1961)

1961KPb E Knoblock,W Purdy; Radiation Res.,15,94 (1961)
1961MAd O Makitie; Agricul.Res.Cen.,Helsinki,No.79 (1961)
1961MGa P Migal,N Grinberg; Zh.Neorg.Khim.,6,727 (1961)
1961PJa R Penneman,L Jones; J.Inorg.Nucl.Chem.,20,19 (1961)
1961SAC P Senise,E Almeida Neves; J.Am.Chem.Soc.,83,4146 (1961)
1961SBb W Schaap,R Bayer,J Siefker,F Schmidt; Proc.Sixth ICCS,447 (1961)
1961SHa H Shimura; Nippon Kagaku Kaishi,82,641 (1961)
1961SOB G Saini,G Ostacoli,E Campi,N Cibrario; Gazz.Chim.Ital.,91,242 (1961)
1961TBa V Toropova,F Batyrshina; Isvest.VUZ.Khim.,4,11 (1961)
1961TDa E Tucci,E Doody,N Li; J.Phys.Chem.,1961,65,1570 (1961)
1961TDb E Tucci,E Doody,N Li; J.Phys.Chem.,65,1570 (1961)
1961TJa J Tate,M Jones; J.Phys.Chem.,65,1661 (1961)
1961VAb V Vasilev; Isvest.VUZ.Khim.,4,936 (1961)
1961VWa B Vallee,R Williams,J Coleman; Nature,190,633 (1961)
1961YPa W Yellin,R Plane; J.Am.Chem.Soc.,83,2448 (1961)
1960AMa D Anderson,G Malcolm,H Parton; J.Phys.Chem.,64,494 (1960)
1960ANb G Anderegg; Helv.Chim.Acta,43,414 (1960)
1960COd J Christie,R Osteryoung; J.Am.Chem.Soc.,82,1841 (1960)
1960DRa M Day,G Rouayheb; J.Chem.Eng.Data,5,508 (1960)
1960FFa P Feng,Q Fernando; J.Am.Chem.Soc.,82,2115 (1960)
1960FSb Y Fridman,D Sarbaev,R Sorochan; Zh.Neorg.Khim.,5,791 (1960)
1960GDa M Golben,L Dawson; J.Phys.Chem.,64,37 (1960)
1960GHa K Gayer,R Haas; J.Phys.Chem.,64,1764 (1960)
1960HDa J Hall,W Dean,E Pacofsky; J.Am.Chem.Soc.,82,3303 (1960)
1960HEb H Hertz; Z.Elektrochem.,64,53 (1960)
1960HRa J Holloway,C Reilly; Anal.Chem.,32,249 (1960)
1960Hsa H Hsiung; Diss.Abs.,21,3629 (1960)
1960Hsc H Hsiung; Thesis,Univ.Cinc.Univ.Microf.60-6444 (1960)
1960Hsd H Hsiung; Thesis,Univ.Cincinnati Microf.60-6444 (1960)
1960Kfc H Kido,W Fernelius,C Haas; Penn.State Univ.Con.No.AT(30)-907 (1960)
1960LUa P Lumme; Suomen Kem.,B33,69 (1960)
1960MEa R Martin,J Edsall; J.Am.Chem.Soc.,82,1107 (1960)
1960Mgb P Migal,N Grinberg; Uch.Zapiski Kishenev Univ.,56,179 (1960)
1960MPa P Migal,A Pushnyak; Zh.Neorg.Khim.,5,293 (610) (1960)
1960NFa W Nicholas,W Fernelius; Pennsylv.State Coll.U.S Atom.Energy Comm (1960)
1960PEd S Pelletier; Thesis,Univ.Paris (1960)
1960REb A Rescigno; Ann.Chim.,(Italy),50,365 (1960)
1960STb J Stary; Collec.Czech.Chem.Comm.,25,86;890 (1960)
1960TKb N Tanaka,K Kato; Bull.Chem.Soc.Jpn.,33,417;1412 (1960)
1960TMa Y Turyan,Y Milyavskii; Zh.Neorg.Khim.,5,2242 (1960)
1960TNa V Toropova,K Naimushina; Zh.Neorg.Khim.,5,421(874) (1960)
1960Tza Y Turyan,B Zhantalai; Zh.Neorg.Khim.,5,1748 (1960)
1960WAa E Wanninen; Acta Acad.Aboensias,XXI,17 (1960)
1960YYa M Yasada,K Yamasaki,H Ohtaki; Bull.Chem.Soc.Jpn.,33,1067 (1960)
1959ANc G Anderegg; Helv.Chim.Acta,42,344 (1959)
1959AND G Anderegg,P Nageli,F Muller et al; Helv.Chim.Acta,42,827 (1959)
1959BGe M Bhadraver,J Gaur; J.Indian Chem.Soc.,36,103 (1959)
1959BYa C Banks,R Yerick; Anal.Chim.Acta,20,301 (1959)
1959CFc S Chaberek,A Frost,M Doran,N Bicknell; J.Inorg.Nucl.Chem.,11,184 (1959)
1959CHb H Chiang,K Hsu; Kexue Tongbao,397 (1959)

1959CZa G Czamanske; Econ.Geol.,54,57 (1959)
1959DLa F Duke,W Lawrence; J.Phys.Chem.,63,2087 (1959)
1959DLb S Datta,R Leberman,B Rabin; Trans.Faraday Society,55,1982;2141 (1959)
1959DMb A Dey,K Mathur; Proc.Symp.Chem.of Coord.Comp.,Agra,178 (1959)
1959FSb Y Fialkov,V Spivakovskii; Zh.Neorg.Khim.,4,1501 (1959)
1959GFa D Goldberg,W Fernelius; J.Phys.Chem.,63,1246 (1959)
1959GFb D Goldberg,W Fernelius; J.Phys.Chem.,63,1328 (1959)
1959HOa Z Holzbecher; Collec.Czech.Chem.Comm.,24,3915 (1959)
1959KBa I Korenman,V Burova; Trudy po Khim.Tekh.(Univ.Gor'kii),2,366 (1959)
1959KEc D Keyworth; Talanta,2,383 (1959)
1959LLa N Li,A Lindenbaum,J White; J.Inorg.Nucl.Chem.,12,122 (1959)
1959LRa R Leberman,B Rabin; Trans.Faraday Society,55,1660 (1959)
1959MAB Y Marcus; J.Phys.Chem.,63,1000 (1959)
1959MFa B Martin,W Fernelius; J.Am.Chem.Soc.,81,2342 (1959)
1959MGa P Migal,N Grinberg,Y Turyan; Zh.Neorg.Khim.,4,1844 (1959)
1959OKb A Okac,Z Kolarik; Collec.Czech.Chem.Comm.,24,266 (1959)
1959PRa M Pryszczewska; Roczn.Chem.,33,755 (1959)
1959SCa P Schindler; Helv.Chim.Acta,42,2736 (1959)
1959SHb M Shchigol; Zh.Neorg.Khim.,4,2014 (1959)
1959SIb P Sims; J.Chem.Soc.,3648 (1959)
1959SKb F Snavely,B Kreckler,C Clark; J.Am.Chem.Soc.,81,2337 (1959)
1959SLc S Shchukarev,L Lilich,V Latysheva et al; Vestnik
Leningr.Univ.,14,No.10,66 (1959)
1959SYc K Suzuki,K Yamasaki; Proc.Symp.Chem.of Coord.Comp.,Agra,74 (1959)
1959TBa Y Turyan,N Bondarenko; Zh.Neorg.Khim.,4,1070 (1959)
1959WOa J Wolhoff,J Overbeek; Rec.Trav.Chim.,78,759 (1959)
1958ACb S Ahrland,J Chatt,N Davies,A Williams; J.Chem.Soc.,264;276;1403 (1958)
1958ASc N Akselrud,V Spivakovskii; Zh.Neorg.Khim.,3,1748 (1958)
1958BFa C Bertsch,W Fernelius,B Block; J.Phys.Chem.,62,444 (1958)
1958BSa A Basinski,W Szymanski; Roczn.Chem.,32,23 (1958)
1958CSa S Cabani,E Scrocco; J.Inorg.Nucl.Chem.,8,332 (1958)
1958CSc S Canani,E Scrocco; J.Inorg.Nucl.Chem.,8,832 (1958)
1958DAa D Davis; Anal.Chem.,30,1729 (1958)
1958DIc F Duke,M Iverson; J.Phys.Chem.,62,417 (1958)
1958DRa E Durham,D Ryskiewick; J.Am.Chem.Soc.,80,4813 (1958)
1958FFa A Frost,H Freedman,S Westerback et al; J.Am.Chem.Soc.,80,530 (1958)
1958GOa A Golub; Dokl.Akad.Nauk SSSR,120,1255 (1958)
1958ISa H Irving,R Shelton,R Evans; J.Chem.Soc.,3540 (1958)
1958KKb O Khotsyanovskii,O Kudra; Isvest.VUZ.Khim.,1,43 (1958)
1958KVa M Kabadi,K Venkatachalam; Curr.Sci.,27,337 (1958)
1958LCa N Li,M Chen; J.Am.Chem.Soc.,80,5678 (1958)
1958LCb N Li,M Chen; J.Biol.Chem.,80,5678 (1958)
1958LGA P Lake,J Goodings; Can.J.Chem.,36,1089 (1958)
1958LRa T Lane,J Ryan,E Britten; J.Am.Chem.Soc.,80,315 (1958)
1958LUa P Lumme; Suomen Kem.,B31,232;250;253 (1958)
1958MSb P Migal,A Sychev; Zh.Neorg.Khim.,3,314 (1958)
1958OMb N Ockerbloom,A Martell; J.Am.Chem.Soc.,80,2351 (1958)
1958PAa C van Panthaleon; Thesis,Leiden (1958)
1958PEe D Perrin; Nature,182,741 (1958)
1958PQa S Pelletier,M Quintin; Compt.Rend.,247,77 (1958)

1958RCa P Romain, J Colleter; Bull.Soc.Chim.Fr., 867 (1958)
1958RHa C Reilly, J Holloway; J.Am.Chem.Soc., 80, 1022 (1958)
1958TFa W Treumann, L Ferris; J.Am.Chem.Soc., 80, 5048 (1958)
1958TFb W Truemann, L Ferris; J.Am.Chem.Soc., 80, 5050 (1958)
1958VAa V Vasilev; Izv.VUZ.Khim., 2, 186 (1958)
1958VEa E Vassian, W Eberhardt; J.Phys.Chem., 62, 84 (1958)
1958YSa A Young, T Sweet; J.Am.Chem.Soc., 80, 800 (1958)
1958YYa M Yasuda, K Yamasaki; Naturwissenschaft, 45, 84 (1958)
1957BLb A Basinski, U Ledzinska; Roczn.Chem., 31, 457 (1957)
1957BPb A Basinski, S Poczopko; Roczn.Chem., 31, 449 (1957)
1957CFa C Callahan, W Fernelius, B Block; Anal.Chim.Acta, 16, 101 (1957)
1957Cwa N Clark, B Willoford; J.Am.Chem.Soc., 79, 1296 (1957)
1957FCa A Frost, S Chaberek, N Bicknell; J.Am.Chem.Soc., 79, 2755 (1957)
1957GBa A Golub, O Bilyk; Zh.Neorg.Khim., 2, 2723 (1957)
1957GLc V Gorokhorskii, Y Levin; Zh.Neorg.Khim., 2, 343 (1957)
1957Gma R Gustafson, A Martell; Arch.Biochem.Biophys., 68, 485 (1957)
1957Gwa K Gayer, L Woontner; J.Phys.Chem., 61, 364 (1957)
1957KEb P Kivalo, P Ekari; Suomen Kem., B30, 116 (1957)
1957KLa P Kivalo, R Luoto; Suomen Kem., B30, 163 (1957)
1957Kpb I Korshunov, A Pochinailo, V Tikhomirova; Zh.Neorg.Khim., 2, 68 (1957)
1957LUa P Lumme; Suomen Kem., B30, 176; 182; 194 (1957)
1957PLa A Pamfilov, A Lopushasnkaya, E Gusel; Ukr.Khim.Zh., 23, 297 (1957)
1957PPa R Patnaik, S Pani; J.Indian Chem.Soc., 34, 19, 619, 673 (1957)
1957PPb S Patra, S Pani; J.Indian Chem.Soc., 32, 572 (1957)
1957RSb C Reilly, R Schmid; J.Elisha Mitchell Sci.Soc. (1957)
1957SAb G Schwarzenbach, G Anderegg; Helv.Chim.Acta, 40, 1773 (1957)
1957SFb F Snavely, W Fernelius, B Douglas; J.Soc.Dyers and Colourists, 73, 491 (1957)
1957SLa S Shchukarev, L Lilich, V Latysheva; Uch.Zapiski Leningrad Univ., 15(211), 17 (1957)
1957SRa R Schmid, C Reilly; Anal.Chem., 29, 264 (1957)
1957SSa G Schwarzenbach, H Senn, G Anderegg; Helv.Chim.Acta, 40, 1886 (1957)
1957SYa K Suzuki, M Yasada, K Yamasaki; J.Phys.Chem., 61, 229 (1957)
1957SYb K Suzuki, K Yamasaki; Naturwissenschaft, 44, 396 (1957)
1957THa H Tsiang, K Hsu; Acta Chimica Sinica, 23, 196 (1957)
1957TOa V Toropova; Zh.Neorg.Khim., 2, 515 (1957)
1957TSc Y Turyan, G Serova; Zh.Neorg.Khim., 2, 336 (1957)
1957Wba F Wold, C Ballou; J.Biol.Chem., 227, 301 (1957)
1957Wsa K Wallenfels, H Sund; Biochem.Z., 329, 41 (1957)
1957Yga K Yatsimirskii, L Guskova; Zh.Neorg.Khim., 2, 2039 (1957)
1957Yma K Yatsimirskii, P Milyukov; Zh.Neorg.Khim., 2, 1046 (1957)
1956ARc E van Artsdalen; J.Phys.Chem., 60, 172 (1956)
1956BFc C Bertsch, W Fernelius, B Block; J.Phys.Chem., 60, 384 (1956)
1956CHd V Chukhlantsev; Zh.Neorg.Khim., 1, 1975 (1956)
1956CHE V Chukhlantsev; Zh.Neorg.Khim., 1, 2300 (1956)
1956CSb R Care, L Staveley; J.Chem.Soc., 4571 (1956)
1956HSb W Harris, T Sweet; J.Am.Chem.Soc., 77, 2893 (1956)
1956HSc W Harris, T Sweet; J.Phys.Chem., 60, 509 (1956)
1956IFa R Irving, W Fernelius; J.Phys.Chem., 60, 1427 (1956)
1956JAa M Janssen; Rec.Trav.Chim., 75, 1411 (1956)

1956KEa P Kivalo,A Ekman; Suomen Kem.,B29,139;189 (1956)
1956KRa P Kivalo,A Ringbom; Suomen Kem.,B29,109 (1956)
1956LWa N Li,J White,R Yoest; J.Am.Chem.Soc.,78,5218 (1956)
1956MAa A Martell; Rec.Trav.Chim.,75,781 (1956)
1956MOa K Morinaga; Bull.Chem.Soc.Jpn.,29,793 (1956)
1956MOb K Morinaga; Nippon Kagaku Kaishi,77,865 (1956)
1956QPa M Quintin,S Pelletier; J.Chim.Phys.,53,226 (1956)
1956RAa S Rasmussen; Acta Chem.Scand.,10,1279 (1956)
1956SBa G Schwarzenbach,R Bauer; Helv.Chim.Acta,39,722 (1956)
1956SGa G Schwarzenbach,R Gut; Helv.Chim.Acta,34,1589 (1956)
1956SRb B Sarma,P Ray; J.Indian Chem.Soc.,33,841 (1956)
1956TGb I Tananaev,M Glushkova,G Seifer; Zh.Neorg.Khim.,1,66 (1956)
1956TOa V Toropova; Zh.Neorg.Khim.,1,243 (1956)
1956TUa Y Turyan; Z.Anal.Chem.,11,71 (1956)
1956TUb Y Turyan; Zh.Anal.Khim.,11,71 (1956)
1956TUc Y Turyan; Zh.Neorg.Khim.,1,2337 (1956)
1956YAb K Yatsimirskii; Zh.Anal.Khim.,10,344 (1956)
1956YSb M Yasuda,K Sone,K Yamasaki; J.Phys.Chem.,60,1667 (1956)
1955BAa S Bardhan,S Aditya; J.Indian Chem.Soc.,82,102;105;109 (1955)
1955BKa M Bobtelsky,S Kertes; Bull.Soc.Chim.Fr.,328 (1955)
1955CHa F Cotton,F Harris; J.Phys.Chem.,59,1203 (1955)
1955CHb F Cotton,F Harris; J.Phys.Chem.,69,1203 (1955)
1955CMA S Chaberek,A Martell; J.Am.Chem.Soc.,77,1477 (1955)
1955EMA J Evans,C Monk; Trans.Faraday Society,51,1244 (1955)
1955FLa S Flengas; Trans.Faraday Society,51,62 (1955)
1955FRa E Felder,C Rescigno,C Radice; Gazz.Chim.Ital.,85,453 (1955)
1955GMA F Gimblett,C Monk; Trans.Faraday Society,51,793 (1955)
1955IFb R Izatt,W Fernelius,B Block; J.Phys.Chem.,59,235 (1955)
1955KOa P Kovalenko; S.O.N.I.Prim.O.V.Khim.Obshch.,1,12 (1955)
1955LMA N Li,R Manning; J.Am.Chem.Soc.,77,5225 (1955)
1955LUa P Lumme; Ann.Acad.Sci.Fennicae,68,7 (1955)
1955MMA H Mackenzie,D Mellor; Australian J.Chem.,14,562 (1955)
1955NUa R Nasanen,E Usitalo; Suomen Kem.,B28,17 (1955)
1955RRa F Rossotti,H Rossotti; Acta Chem.Scand.,9,1166;1177 (1955)
1955RSa R Robinson,R Stokes; "Electrolyte Solutions".,p.396;400 (1955)
1955SAa G Schwarzenbach,G Anderegg et al; Helv.Chim.Acta,38,1147 (1955)
1955SAc G Schwarzenbach,G Anderegg; Z.Anorg.Chem.,282,286 (1955)
1954BFa B Bryant,W Fernelius; J.Am.Chem.Soc.,67,5351 (1954)
1954CFa R Charles,H Freiser; Anal.Chim.Acta,11,1;101 (1954)
1954CHa R Charles; J.Am.Chem.Soc.,76,5854 (1954)
1954CMA S Chaberek,A Martell; J.Am.Chem.Soc.,76,215 (1954)
1954DSa T Davies,S Singer,L Staveley; J.Chem.Soc.,2304 (1954)
1954EMA W Evans,C Monk; J.Chem.Soc.,550 (1954)
1954GOa G Goward; Thesis,Princeton.Univ.Microf.9414 (1954)
1954IRa H Irving,H Rossotti; J.Chem.Soc.,2910;3494 (1954)
1954JFa W Johnson,H Freiser; Anal.Chim.Acta,11,201 (1954)
1954LWa N Li,J White,E Doody; J.Am.Chem.Soc.,76,6219 (1954)
1954NRA M Novakovskii,A Ryazantseva; Uch.Zapiski Kharkov Univ.,50;54;89;277
(1954)
1954NUa R Nasanen,E Usitalo; Acta Chem.Scand.,8,112;835 (1954)

1954PEa D Perkins; *Biochem.J.*, 57, 702 (1954)
1954PSa T Pavlopoulos, H Strehlow; *Z.Phys.Chem.*, (Frankfurt), 2, 89 (1954)
1954REa R Rebertus; *Diss.Univ.Illinois* (1954)
1954REb R Rebertus; *Thesis, Univ. Illinois. Univ. Microf. 9125* (1954)
1954SGa G Schwarzenbach, R Gut, G Anderegg; *Helv.Chim.Acta*, 37, 937 (1954)
1954YSa K Yatsimirskii, A Shutov; *Zh.Fiz.Khim.*, 28, 30 (1954)
1953ALa A Albert; *Biochem.J.*, 54, 646 (1953)
1953APa S Aditya, B Prasad; *J.Indian Chem.Soc.*, 30, 633 (1953)
1953BDa C Banderzee, H Dawson; *J.Am.Chem.Soc.*, 75, 5659 (1953)
1953CCa S Chaberek, R Courtney, A Martell; *J.Am.Chem.Soc.*, 75, 2185 (1953)
1953CCb R Courtney, S Chaberek, A Martell; *J.Am.Chem.Soc.*, 75, 4814 (1953)
1953CGa A Chakraborty, N Ghosh, P Ray; *J.Indian Chem.Soc.*, 30, 185 (1953)
1953CMA S Chaberek, A Martell; *J.Am.Chem.Soc.*, 75, 2888 (1953)
1953ERa L Eriksson; *Acta Chem.Scand.*, 7, 1146 (1953)
1953FRb S Fronaeus; *Svensk Kem.Tidskr.*, 65, 1 (1953)
1953GOa A Golub; *Ukr.Khim.Zh.*, 19, 205; 467 (1953)
1953HMa V Hughes, A Martell; *J.Phys.Chem.*, 57, 694 (1953)
1953LMA R Lumb, A Martell; *J.Phys.Chem.*, 57, 690 (1953)
1953PEa D Perkins; *Biochem.J.*, 55, 649 (1953)
1953SMA G Schwarzenbach, P Moser; *Helv.Chim.Acta*, 36, 581 (1953)
1953SPa C Spike, R Parry; *J.Am.Chem.Soc.*, 75, 2726 (1953)
1953SPb C Spike, R Parry; *J.Am.Chem.Soc.*, 75, 3770 (1953)
1953SPc C Spike; *Thesis, Univ. Michigan, Microf. 5098* (1953)
1953SUB S Suzuki; *Sci.Rep.Res.Inst.Tohoku Univ.*, A5, 16; 311 (1953)
1953Twa C Tanford, M Wagner; *J.Am.Chem.Soc.*, 75, 434 (1953)
1953Ufa L van Uitert, W Fernelius, B Douglas; *J.Am.Chem.Soc.*, 75, 2736 (1953)
1953Ufb L van Uitert, W Fernelius, B Douglas; *J.Am.Chem.Soc.*, 75, 2736; 2739; 457 (1953)
1953Ufe L van Uitert, W Fernelius, B Douglas; *J.Am.Chem.Soc.*, 75, 457; 2736; 2739 (1953)
1953YAA K Yatsimirskii; *Sbornik.Stat.obshch.Khim.*, 1, 193 (1953)
1953Ysa K Yatsimirskii, A Shutov; *Zh.Fiz.Khim.*, 27, 782 (1953)
1952CCa S Chaberek, R Courtney, A Martell; *J.Am.Chem.Soc.*, 74, 5057 (1952)
1952CMA S Chaberek, A Martell; *J.Am.Chem.Soc.*, 74, 5052 (1952)
1952CMB S Chaberek, A Martell; *J.Am.Chem.Soc.*, 74, 6021 (1952)
1952CMc S Chaberek, A Martell; *J.Am.Chem.Soc.*, 74, 6228 (1952)
1952FYa W Fyfe; *J.Chem.Soc.*, 2018; 2023 (1952)
1952GEa J George; *J.Am.Chem.Soc.*, 81, 5530 (1952)
1952GGc J Goates, M Gordon, N Faux; *J.Am.Chem.Soc.*, 74, 835 (1952)
1952JFa W Johnston, H Freiser; *J.Am.Chem.Soc.*, 74, 5239 (1952)
1952JHa H Jonassen, G Hurst, R le Blanc, A Meibohm; *J.Phys.Chem.*, 56, 16 (1952)
1952LAA W Latimer; "Oxidation Potentials", Prentice Hall, NY (1952)
1952LAB W Latimer; "Oxidation Potentials", Prentice Hall, NY (1952)
1952LEa I Leden; *Acta Chem.Scand.*, 6, 971 (1952)
1952NPa R Nasanen, U Penttinen; *Acta Chem.Scand.*, 6, 837 (1952)
1952PEa D Perkins; *Biochem.J.*, 51, 487 (1952)
1952SNa F Snavely; *Inv.Coord.Arylazo Compds.*, Penn.State Coll (1952)
1952TAa C Tanford; *J.Am.Chem.Soc.*, 74, 211 (1952)
1952YAA K Yatsimirskii, A Astasheva; *Zh.Fiz.Khim.*, 26, 239 (1952)
1951AKa R Albery, E King; *J.Am.Chem.Soc.*, 73, 517 (1951)
1951BAa J Barney, W Argersinger, C Reynolds; *J.Am.Chem.Soc.*, 73, 3785 (1951)

1951DMb T Denney, C Monk; *Trans. Faraday Society*, 47, 992 (1951)
1951FRb W Feitknecht, R Reinmann; *Helv. Chim. Acta*, 34, 2255 (1951)
1951HFa D Hume, D de Ford, G Cave; *J. Am. Chem. Soc.*, 73, 5323 (1951)
1951KLc I Korshunov, L Lipatova; *Zh. Obshch. Khim.*, 21, 615 (1951)
1951KMa I Korshunov, N Malyugina, O Balabanova; *Zh. Obshch. Khim.*, 21, 620 (1951)
1951MEa L Meites; *J. Am. Chem. Soc.*, 73, 3727 (1951)
1951SFa G Schwarzenbach, E Freitag; *Helv. Chim. Acta*, 34, 1492; 1503 (1951)
1951UFa L van Uitert, W Fernelius, B Douglas; US AEC - Report
NYO, 626(Mrch); 727(May) (1951)
1951VIa E Vinogradova; *Trudy An. Khim. Akad. Nauk SSSR*, 3, 127; 138 (1951)
1951VPa A Vasilev, V Proukhina; *Zh. Anal. Khim.*, 6, 218 (1951)
1950AFa N Akselrud, Y Fialkov; *Ukr. Khim. Zh.*, 16, 283 (1950)
1950ALa A Albert; *Biochem. J.*, 47, 531 (1950)
1950BJa J Bjerrum; *Chem. Revs.*, 46, 381 (1950)
1950DLa B Douglas, H Laitinen, J Bailar; *J. Am. Chem. Soc.*, 72, 2484 (1950)
1950HIa T Hirata; *Reps. Res. Sci. Dept. Kyushu Univ.*, 1, 199 (1950)
1950KKa J Koryta, I Kossler; *Collec. Czech. Chem. Commun.*, 15, 241 (1950)
1950PSa J Prue, G Schwarzenbach; *Helv. Chim. Acta*, 33, 963; 985; 995 (1950)
1950SAa F Saegusa; *J. Chem. Soc. Jpn.*, 71, 223 (1950)
1950SCa G Schwarzenbach; *Helv. Chim. Acta*, 33, 974 (1950)
1949KIa E King; *J. Am. Chem. Soc.*, 71, 319 (1949)
1949MMA L Maley, D Mellor; *Australian J. Sci. Res.*, A, 2; 92; 579 (1949)
1949PEa K Pedersen; *Acta Chem. Scand.*, 3, 676 (1949)
1949SBA A Stromberg, I Bykov; *Zh. Obshch. Khim.*, 19, 245 (1949)
1949SDa D Stock, C Davies; *J. Chem. Soc.*, 1371 (1949)
1949SGa G Schwarzenbach, H Gysling; *Helv. Chim. Acta*, 32, 1314 (1949)
1948SBA G Schwarzenbach, W Bierdermann; *Helv. Chim. Acta*, 31, 331; 456; 678 (1948)
1947SFa P Souchay, J Faucherre; *Bull. Soc. Chim. Fr.*, 529 (1947)
1946BJa J Brigando, P Job; *Compt. Rend.*, 222, 1297 (1946)
1946LEa I Leden; *Svensk Kem. Tidskr.*, 58, 129 (1946)
1945BAa J Bjerrum, P Anderson; *Kgl. Danske Vid. S. Skr.*, 7, 22 (1945)
1945CMA G Carlson, J McReynolds, F Verhoek; *J. Am. Chem. Soc.*, 67, 1334 (1945)
1945FEa W Feitknecht; *Helv. Chim. Acta*, 28, 1444 (1945)
1945FEb W Feitknecht; *Helv. Phys. Acta*, 28, 1444 (1945)
1945FLa H Flood, V Lorez; *Tidskr. Kjemi. Berg.*, 5, 83 (1945)
1944CHb C Chu; *J. Chin. Chem. Soc.*, 11, 113 (1944)
1943DVA P Derr, W Vosburgh; *J. Am. Chem. Soc.*, 65, 2408 (1943)
1943LEa I Leden; *Diss. Lund* (1943)
1942MRA T Moeller, P Rhymer; *J. Phys. Chem.*, 46, 477 (1942)
1941BJa J Bjerrum; *Thesis, repr. 1957, P. Haase & Son, Copenhagen* (1941)
1941LEa I Leden; *Z. Phys. Chem.*, A188, 160 (1941)
1940KAa A Kapustinskii; *Dokl. Akad. Nauk SSSR*, 28, 144 (1940)
1940VBA W Vosburgh, J Beckman; *J. Am. Chem. Soc.*, 62, 1028 (1940)
1939BAa R Bates; *J. Am. Chem. Soc.*, 61, 308 (1939)
1938BVA R Bates, W Vosburgh; *J. Am. Chem. Soc.*, 60, 137 (1938)
1938CKa R Cannon, A Kibrick; *J. Am. Chem. Soc.*, 60, 2314 (1938)
1938DAa C Davies; *J. Chem. Soc.*, 277; 2093 (1938)
1938OKa Y Oka; *J. Chem. Soc. Jpn.*, 59, 971 (1938)
1937CVa W Clayton, W Vosburgh; *J. Am. Chem. Soc.*, 60, 2314 (1937)
1936FRA E Ferrell, J Ridgion, H Riley; *J. Chem. Soc.*, 1121 (1936)

1936HFa H Harned, M Fitzgerald; J. Am. Chem. Soc., 58, 2624 (1936)
1936RAa S Ravitz; J. Phys. Chem., 40, 61 (1936)
1935KAa K Kelley, C Anderson; Bur. Mines, Bull., 384 (1935)
1934BAa W Banks; J. Chem. Soc., 1010 (1934)
1934FRa E Ferrell, J Ridgion, H Riley; J. Chem. Soc., 1440 (1934)
1933ATA M Aumeras, A Tamisier; Bull. Soc. Chim. Fr., 53, 97; 157 (1933)
1933JEa K Jellinek, F Enke; Stuttgart, "Lehrbuch Phys. Chemie", 2nd Ed (1933)
1932BDa H Britton, E Dodd; J. Chem. Soc., 1940 (1932)
1932ISa F Ishikawa, E Shibata; Sci. Rep. Res. Inst. Tohoku Univ., 21, 499 (1932)
1932MDa R Money, C Davies; Trans. Faraday Society, 28, 609 (1932)
1932RGa H Riley, V Gallafent; J. Chem. Soc., 514 (1932)
1932SAa G Sartori; Gazz. Chim. Ital., 64, 3 (1932)
1931KOa I Kolthoff; J. Phys. Chem., 35, 2711 (1931)
1931MAa K Masaki; Bull. Chem. Soc. Jpn., 6, 60; 89; 233 (1931)
1930KNa W Knobloch; Lotos., 78, 110 (1930)
1930RDa E Righellato, C Davies; Trans. Faraday Society, 26, 592 (1930)
1929PIa I Pines; Collec. Czech. Chem. Commun., 1, 387; 429 (1929)
1929RFa H Riley, N Fisher; J. Chem. Soc., 2006 (1929)
1928AUa M Aumeras; J. Chim. Phys., 25, 727 (1928)
1928BRa F Bourion, E Rouyer; Ann. Chim., (France), 10, 182; 263 (1928)
1928JOa P Job; Ann. Chim., (France), 9, 113 (1928)
1928PIa J Piater; Z. anorg. Chem., 174, 321; 355 (1928)
1927DAb C Davies; Trans. Faraday Society, 23, 351 (1927)
1925WIa H de Wijs; Rec. Trav. Chim., 44, 663 (1925)
1913KUa C Kullgren; Z. Phys. Chem., 85, 466 (1913)
1910JAa A Jacques; Trans. Faraday Society, 5, 225 (1910)
1904EUa H von Euler; Ber. Buns. Phys. Chem., 37, 1704 (1904)
1904EUb H von Euler; Ber. Buns. Phys. Chem., 37, 2768 (1904)
1903EUa H von Euler; Ber. Buns. Phys. Chem., 36, 1854; 2878; 3400 (1903)

EXPLANATORY NOTES

DATA Flags are :-

T Data at other TEMPERATURES
I Data with various BACKGROUNDS
H Data for THERMOCHEMICAL quantities
M Data for TERNARY Complexes

EVALUATION Flags are :-

T or IUP=T signifies EVALUATION RATING = Tentative by IUPAC
R or IUP=R signifies EVALUATION RATING = Recommended by IUPAC

END