

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

$B(\text{Cd}(\text{phen})\text{Br}_3)=19.24$
 $B(\text{Cd}(\text{phen})_2\text{Br})=16.19$
 $B(\text{Cd}(\text{phen})_2\text{Br}_2)=20.47$. Medium: DMF, 0.1 M Et_4NClO_4 . $\text{DH}(\text{Cd}(\text{phen})\text{Br})=-32.0$
 kJ mol^{-1} , $\text{DH}(\text{Cd}(\text{phen})\text{Br}_2)=-26.0$, $\text{DH}(\text{Cd}(\text{phen})\text{Br}_3)=-32.0$, $\text{DH}(\text{Cd}(\text{phen})_2\text{Br})=-58$

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 Bu_4NClO_4 . $\text{DH}(\text{K}_1)=9.9 \text{ kJ mol}^{-1}$,
 $\text{DH}(\text{B}_2)=13.6$, $\text{DH}(\text{B}_3)=-5.4$, $\text{DH}(\text{B}_4)=-24.5$

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 Bu_4NClO_4 . $\text{DH}(\text{K}_1)=0.6 \text{ kJ mol}^{-1}$, $\text{DH}(\text{K}_2)=-5.4$, $\text{DH}(\text{K}_3)=-18.4$,
 $\text{DH}(\text{K}_4)=-5.7$. $\text{K}(\text{CdL}+\text{I})=5.1$; $\text{K}(\text{CdL}_2+\text{I})=3.4$; $\text{K}(\text{CdLI}+\text{L})=4.9$

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

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 Et_4NClO_4 . $\text{DH}(\text{K}_1)=-6.0 \text{ kJ mol}^{-1}$, $\text{DH}(\text{B}_2)=7$, $\text{DH}(\text{B}_3)=4.9$,
 $\text{DH}(\text{B}_4)=-11.1$

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 Et_4NClO_4

Cd++	ISE alc/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 B3=3.15 B4=4.54	B2=2.39	1987PIa	(1602)	38
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 B3=2.51 B4=2.94	B2= 2.16	1984TMe	(1605)	41
Method: polarography.										
Cd++	vlt R4N.X	25°C	2.00M	U	I M	K1=1.9 B3=3.7 B(Cd(Tu)Br)=3.0 B(Cd(AcTu)Br)=3.2	B2=2.8	1983MCa	(1606)	42
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 K1=1.77; B2=2.69	B2=2.26	1983NFa	(1607)	43
Medium: LiClO4; For 40% ethyleneglycol/water										
Cd++	sol NaClO4	25°C	3.00M	U		K1=1.79 B3=3.05 B4=3.902	B2=2.58	1983RAa	(1608)	44
Cd++	oth non-aq	25°C	100%	C	H	K1=3.69 B3=9.46 B4=11.29	B2=6.18	1981ABc	(1609)	45
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 K3=2.86 K4=1.64	B2= 4.70	1976ABf	(1620)	56
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Medium: 1 M NH₄ClO₄ in DMSO

Cd(Hg)-electrode

Cd++	ISE NaClO ₄	25°C	3.00M	U	I M	K1=1.80 B3=3.55 B4=3.86 B(CdBr(SO ₄))=2.23 B(CdBr(SO ₄) ₂)=2.28	B2=2.86	1975FCa	(1621)	57
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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 NaClO ₄	25°C	3.0M	U		K1=1.77 B3=3.33 B4=4.09	B2=2.33	1974EMa	(1622)	58
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Cd++	ISE NaClO ₄	25°C	0.50M	U	I	K1=1.51 B3=2.11	B2=2.26	1974FKc	(1623)	59
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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 NaClO ₄	25°C	0.75M	U		K1=1.53 B3=2.29 B4=2.45	B2=2.00	1974MId	(1624)	60
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Cd++	ISE NaClO ₄	25°C	1.0M	U	T H	K1=1.56 B3=2.49 B4=2.75	B2=2.11	1974RAa	(1625)	61
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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 B3=3.23 B4=2.95	B2=3.00	1974RAa	(1626)	62
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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 B3=8.26 B4=10.70	B2=5.85	1974SLa	(1627)	63
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Medium: DMSO, 1 M MClO₄(M=Li,Na)

Cd++	ISE non-aq	25°C	100%	U		B3=25.3 B4=29.8		1973AMa	(1628)	64
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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 K3=-1.0 K4=0.4	B2=0.20	1970MPa	(1640)	76
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 K3=1.90 K4=1.18	B2=4.96	1968ILa	(1643)	79
Medium:(Li/Na/K)NO3 eutectic. m units											
Cd++	ISE	oth/un	25°C	2.0M	U	I	K1=1.5 B3=2.2 B4=2.7	B2=1.9	1968KTe	(1644)	80
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 B3=7.9 B4=9.5	B2=7.6	1968KTe	(1645)	81
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 K3=1.16 K4=0.60	B2=3.09	1967MFC	(1647)	83
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 B3=2.68 B4=3.03	B2=2.26	1967SGb	(1648)	84
Cd++	vlt	oth/un	50°C	100%	U		K1=3.59	B2=6.77	1966BAd	(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)											

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Cd++      ISE non-aq 240°C 100% U      K1=3.43      1966BMa (1651) 87
Medium: molten (Li/Na)NO3. x units
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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
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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 1930KNa (1683) 119
B4=3.99

Method: emf with Cd electrode? Medium: KBr.

BrO3- HL Bromate (6017)
Bromate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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 1971IJ a (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 1961PJ a (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

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	Kso=-12.00 *Kpso=6.14	1965GSa	(3090)	155
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	B3=6.24	1958LGA	(3091)	156
Cd++	oth	oth/un	25°C	0.0	U	Kso(CdCO3(s))=-11.28	1952LAB	(3092)	157
From thermodynamic data									
Cd++	oth	none	25°C	0.0	U	Kso(CdCO3(s))=-13.74 +Kpso=-11.25	1935KAa	(3093)	158
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
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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
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Kso=-15.21

Cd++	vlt	oth/un	20°C	dil	U			1957BLb	(3545) 166
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Kso=-15.00

By colorimetry Kso=-14.87

Cd++	ISE	none	25°C	0.0	U			1957BPb	(3546) 167
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Kso=-15.02

Cd++	sol	oth/un	25°C	var	U			1956TGb	(3547) 168
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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 Bu_4NClO_4 . $\text{DH}(\text{K}_1) = 1.9 \text{ kJ mol}^{-1}$,
 $\text{DH}(\text{B}_2) = -1$, $\text{DH}(\text{B}_3) = -22$, $\text{DH}(\text{B}_4) = -45$

Cd++ EMF NaClO_4 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 NaClO_4 . At $I=0.0$, $\text{K}_1=2.01$, $\text{K}_2=2.53$, $\text{K}_3=2.48$. Data for 0-50% w/w 2-PrOH/ H_2O , xM NaClO_4 . Data for 15-40 C.

Cd++ vlt NaClO_4 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. $\text{B}(\text{CdClBr}) = 2.84$, $\text{B}(\text{Cl}_2\text{Br}) = 3.44$,
 $\text{B}(\text{CdClBr}_2) = 3.74$, $\text{B}(\text{CdClBr}_3) = 4.28$, $\text{B}(\text{CdCl}_2\text{Br}_2) = 3.92$, $\text{B}(\text{CdCl}_3\text{Br}) = 3.20$

Cd++ gl NaClO_4 25°C 4.00M U I K1=1.57 B2=2.42 1989BPb (4213) 174
B3=2.66
B4=2.0

Data with LiClO_4 , NaClO_4 , $\text{Mg}(\text{ClO}_4)_2$ and $\text{Al}(\text{ClO}_4)_3$ 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 Et_4NClO_4 . $\text{DH}(\text{K}_1) = -12.0 \text{ kJ mol}^{-1}$, $\text{DH}(\text{B}_2) = -4$, $\text{DH}(\text{B}_3) = -7.6$,
 $\text{DH}(\text{B}_4) = -28.6$

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%: $\text{K}_1=0$, $\text{B}_2=8.08$, $\text{B}_3=8.61$, $\text{B}_4=8.85$
In 10% HF: $\text{K}_1=1.62$, $\text{B}_2=2.23$, $\text{B}_3=\text{B}_4=1.79$

Cd++ vlt NaClO_4 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 NaClO_4

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

Cd++	EMF NaClO ₄	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 NaClO ₄	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 NaClO ₄	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
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in MgClO₄-MgCl₂-HClO₄;
Also for I=6.0 M K1=1.28; B2=2.39; B3=2.45

Cd++	gl NaClO ₄	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
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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 KNO ₃	25°C	1.00M	U T M	K1=0.78	B2=2.48	1981MBa	(4230)	191
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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 1979OLa (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))=2.28B(CdCl₂(SO₄))=2.23B(CdCl(SO₄)₂)=2.35B(CdCl₃(SO₄))=2.60B(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)=5.04B(CdBr₃L)=6.44B(CdBrL₂)=6.37B(CdBr₂L₂)=6.87. B(CdIL)=4.54; B(CdI₂L)=5.22; B(CdIL₂)=6.47B(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)L2)=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

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 1960C0d (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 B3=2.60 1960FSb (4313) 274

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 B4=5.56 1960HSa (4315) 276

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 1958DIc (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
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Cd++	vlt	NaClO ₄	25°C	2.0M	U	M			1967SGb (7384)	325
									B(CdBrI)=3.32	
									B(CdBrI ₂)=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

Medium: MeOH, 0.05 M NH_4ClO_4 . Also Bn for 0.01 M and 0.1 M NH_4ClO_4 .

Medium: MeOH, 0.1 M NaClO₄. In EtOH: K₁=0.34, B₂=-0.1

 $K5 = -1.70$

Iodide;

B4=15.4

$$K_3 = 2.65$$

B4=7.16

$$B4=14.6$$

B4=6.00

 $K_4 = 5.71$
$$K_4 = 3.50$$

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

Cd++	vlt	NaClO ₄	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
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Medium: MeOH, 0.05 M NaClO₄

Cd++	vlt	NaClO ₄	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(CdBrI ₂)=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
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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	KNO ₃	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	KNO ₃	25°C	1.00M	U	T	M			1981MBa	(7811)	351
								B(CdL ₂ (thiourea))=4.91				
								B(CdL ₂ (thiourea) ₂)=5.69				
								B(CdL ₂ (thiourea) ₃)=6.60				
								B(CdL ₃ (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,

Cd++ ISE NaCl04 25°C 3.0M U TIH K1=2.20 B2=3.70 1974FKc (7823) 363
B3=6.40
B4=7.20

Cd++ vlt KN03 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

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

Cd++	oth NaClO4	?	1.63M U	M	1974YMc (7827) 367
					$K(\text{CdBr}_4 + \text{L} = \text{CdBr}_3\text{L} + \text{Br}) = 0.72$
					$K(\text{CdBr}_3\text{L} + \text{L} = \text{CdBr}_2\text{L}_2 + \text{Br}) = 0.93$
					$K(\text{CdBr}_2\text{L}_2 + \text{L} = \text{CdBrL}_3 + \text{Br}) = 0.70$
					$K(\text{CdBrL}_3 + \text{L} = \text{CdL}_4 + \text{Br}) = -0.35$

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

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		

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

Cd++	ix	NaNO3	?	0.50M U	K1=1.72	1971KEb	(7831)	371
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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: 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 NaCl04 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 Kso=-7.16	1981RAa (8484)	418
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		Kso(CdL2)=-7.64	1950SAa (8486)	420

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 K3=0.30	1978NFa (8797)	422

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		K(CdA+L) < 2.3	1982SSa (9052)	423
A=uridine-5'-triphosphate									
Cd++	gl	oth/un	25°C	0.10M	U H		K1=2.66 B2=4.75 B3=6.18 B4=7.11 B5=6.82 B6=4.40	1974DTa (9053)	424
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 B3=6.1	1974FSc (9054)	425

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(CdL₁I₃)=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. DH_n is DH(K_n) 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: NH4Cl04.

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 1925Wla (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 NaCl04 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(0 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++	gl	NaClO4	30°C	0.10M	C	K1=6.20	1995STa (10777)	482
Cd++	oth	none	25°C	0	U	*K1=-10.10 *B2=-20.30 *B3=-33.01 *B4=-47.29	1989SAb (10778)	483
From published thermodynamic data. Also *B5=-61.93, *B6=-76.81, *B(2,1)=-6.40, *B(4,4)=-27.92, *Ks(beta-Cd(OH)2)=13.65, *Ks(CdO)=15.14.								
Cd++	gl	KN03	25°C	1.00M	U	*K1=-9.60	1989TRb (10779)	484
Cd++	sp	KN03	25°C	0.10M	U I	K[Cd(OH)2+H]=10.35	1983MOe (10780)	485
for 0.3 M KN03 K[Cd(OH)2+H]=10.27; K[Cd(OH)+H]=7.22								
for 1.0 M KN03 K[Cd(OH)2+H]=10.02; K[Cd(OH)+H]=7.04								
Cd++	gl	NaClO4	60°C	3.00M	U	K1=3.1 B2=5.0 *K1=-10.0 *B(2,1)=-8.0	1977BGa (10781)	486
Cd++	gl	NaClO4	60°C	3.00M	U	*K1=-10.0 *B(2,1)=-8.20	1977BGb (10782)	487
Cd++	gl	NaClO4	25°C	3.00M	C	*K1=-10.3 *B(Cd2(OH))=-9.13	1977MOa (10783)	488
Medium:LiClO4. In Dioxan/H2O: m.f. 0.05, values: -9.9 and -9.23. m.f. 0.1: -10.7, -9.28. m.f. 0.15: -11.0, -9.37. m.f. 0.2: -10.7, -9.3								
Cd++	gl	alc/w	25°C	10%	C	*B(Cd2(OH))=-9.07	1977MOa (10784)	489
Medium: LiClO4, mole fraction MeOH=0.05. In mole fraction 0.10, K=-9.08								
Cd++	dis	NaClO4	RT	1.0M	C	B(Cd2(OH)2)=23.9	1975LEa (10785)	490
Method: 115Cd extraction into toluene with di-2-hexylphosphoric acid.								
Cd++	ISE	KN03	20°C	.002M	U	*K1=-9.06	1974GAa (10786)	491
Cd++	gl	NaClO4	25°C	3.0M	C	*K1=-10.3 *B2=-9.13	1974MOb (10787)	492
Cd++	ix	oth/un	?		U	Ks(Cd(OH)2=CdO2H+H)=-19.6	1973ISa (10788)	493

Cd++	gl	NaClO4	25°C	1.00M	U	K1=4.7 B2=7.8 B4=9.7 Kso(Cd(OH)2(s)=Cd+2OH)=-14.6	1971GTa (10789)	494
Cd++	cal	NaClO4	25°C	3.00M	U H	*K1=-10.20 *B(2,1)=-9.08 *B(4,4)=-31.85	1970ARb (10790)	495
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	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	1965RDa (10792)	497
Cd++	gl	none	25°C	0.0	U	*Kso=13.61 Kso(Cd(OH)2(s)=Cd+2OH)=-14.39	1964PCa (10793)	498
Cd++	oth	none	25°C	0.0	M	*K1=-7.92 *K2=-11.38 *K3=-14.32 *K4=-13.96 *K5=-14.64, *K6=-14.88 ?. Kso=-14.19	1964SMd (10794)	499
Cd++	sol	NaClO4	25°C	1.00M	U	K1=17.76	1964STb (10795)	500
Cd++	sol	NaClO4	25°C	3.00M	U	Kso(beta-Cd(OH)2)=14.03 Kso(gamma-Cd(OH)2)=14.22	1963SCb (10796)	501
Cd++	gl	NaClO4	25°C	3.0M	U	*K1=-10.2 *B(2,1)=-9.10 *B(4,4)=-31.8	1962BCb (10797)	502
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 K3=2.6 K4=1.7	1962DLa (10798)	503
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 K(Cd(OH)2(s)=Cd(OH)2)=-3.96	1959KBa (10801)	506
Cd++	gl	NaCl04	25°C	3.0M	U	*Kso=14.03 Kso(Cd(OH)2(s)=Cd+2OH)=-14.41	1959SCa (10802)	507
Cd++	cal	none	25°C	0.0	U	H DH(*Kso(Cd(OH)2(s)+2H=Cd+2H2O))=-94.6 kJ m-1;DH(*Kso(CdO(s)+2H=Cd+H2O))=-109	1959SLc (10803)	508
Cd++	sol	none	25°C	0.0	U	B4=9.7	1958LGa (10804)	509
Cd++	sol	none	25°C	0.0	U	*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)	1957Gwa (10805)	510
Cd++	vlt	KNO3	25°C	1.0M	U	K1=6.38 B2=9.47 K(Cd+H2O=CdOH+H)=-7.62 K(CdOH+H2O=Cd(OH)2+H)=-10.92	1954G0a (10806)	511
Cd++	sol	oth/un	25°C	dil	U	Kso=-13.67	1954NRa (10807)	512
Cd++	gl	KCl	30°C	0.10M	U	K(Cd+H2O=CdOH+H)=-11.6	1952CCa (10808)	513
Cd++	sol	none	25°C	0.0	U	Kso=-13.66(active) Kso=-14.23(inactive)	1951FRb (10809)	514
Cd++	gl	none	20°C	0.0	U	Kso(Cd(OH)2)=-12.77	1951VIa (10810)	515
Cd++	EMF	none	18°C	0.0	U	Kso(Cd(OH)2)=-14.58	1950AFa (10811)	516
Cd++	gl	oth/un	25°C	var	U	Kso(Cd(OH)2(s))=-13.49	1942MRa (10812)	517
Cd++	gl	none	25°C	0.0	U	Kso(Cd(OH)2(s))=-14.61	1938OKa (10813)	518

Cd++	dis oth/un	20°C	var	U	K1=5.52	1933JEa (10814)	519

Cd++	EMF none	25°C	0.0	U		1932ISa (10815)	520
					Kso(Cd(OH)2(s))=-13.93		

Cd++	sol none	25°C	0.0	U		1928PIa (10816)	521
					Kso=-14.22 for Cd(OH)2		
					K(Cd(OH)2+OH)=-5		
					Kso=-13.64 for CdO		

Cd++	sol oth/un	25°C	var	U		1925WIIa (10817)	522
					Kso(Cd(OH)2(s))=-13.55		

Cd++	kin oth/un	100°C	0.01M	U		1913KUa (10818)	523
					*K1=-9.49		
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		2001AMa (13041) 524
						Ks=-30.9	
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		1996SSa (13042) 525
						K(Cd+HL)=2.79	

Cd++	ISE	NaClO4	25°C	0.0	C	I	1994IPa (13043) 526
						K(Cd+H2L)=1.2	
						K(Cd+2H2L)=1.9	
						K(Cd+H2L+HL)=4.8	
						K(Cd+2HL)=5.4	
Method: Cd/Hg electrode. In 3 M NaClO4: K(Cd+H2L0=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			1990EBa (13044) 527
						K(Cd+H3L=CdH2L+H)=-1.10	
						K(Cd+2H3L=Cd(H2L)2+2H)=-2.90	
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			1990SPb (13045) 528
						K(Cd+H2L)=1.20	

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

Cd++	gl	NaCl04	25°C	0.10M	U	M	1975RMa	(13047)	530
							K(Cd+HP04)=2.91		
							K(Cd+Cys+HP04)=11.45		
							K(Cd+citrate+HP04)=9.56		
							K(Cd+tartrate+HP04)=8.13		

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	1.00M	U		K1=4.19	1984C0a (13397)	535

P207----			H4L		Pyrophosphate		CAS 2466-09-3	(198)	
Diphosphate; from (H0)2PO.0.PO(OH)2									

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

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
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Cd++	vlt oth/un	?	var U	K1=5.6	1932SAa (13544)	542
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P2W17O61----- Polytungstate (2102)

alpha-Heterodiphospho-polytungstate (usually alpha1 isomer)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaNO3	25°C	1.00M U			K1=3.5	1984COa (13705)	543
							K1=4.23 (alpha2 isomer)		

P3010----- H5L CAS 10380-08-2 (1001)

Tripolyphosphate; from (HO)2PO.O.PO(OH).O.PO(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	kin	oth/un	30°C	0.10M U			K1=7.13	1978KHa (13810)	544
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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: Me4NN03. 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	1959WOa (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			1957PLa (13814)	548
							B(Cd3L4)=-9.05 ?	

P309--- H3L CAS 13566-25-1 (235)

Cyclotrimetaphosphate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	ISE	NaCl04	25°C	0.40M U			K1=1.8	1986KUc (13940)	549
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P4012--- H4L CAS 13598-74-8 (234)

Cyclotetrametaphosphate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++ ISE NaCl04 25°C 0.30M C K1=3.3 1986KUc (13992) 550

P4013----- H6L Tetraphosphate (1102)
Tetraphosphate;

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 NaCl04 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 NaCl04 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

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

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 NaCl04	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 NaCl04	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
 $K(\text{CdL(s)} + 2\text{H} = \text{Cd} + \text{H}_2\text{S(g)}) = -5.08$

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
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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
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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 nad 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 1951KMa (14746) 635
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 1957TOa (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 1971FCb (15864) 658
 B3=1.32
 B4=1.30
 B(CdCl3L)=2.22

Medium: LiClO4. B(CdClL)=2.30, B(CdClL2)=2.30, B(CdClL3)=1.2
 B(CdCl2L)=2.25, B(CdCl2L2)=2.5

Cd++ ISE NaClO4 25°C 3.0M U K1=0.72 B2=0.85 1971FCc (15865) 659
 B3=1.39
 B4=1.03

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 1965HSc (15871) 665
 B3=1.7

Cd++ oth oth/un 25°C 0.0 U K1=2.01 1965POa (15872) 666
 K(Cd(H2O)2L=CdH2OL)=-0.20
 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 1952LEa (15875) 669
 B3=2.04 ?

Cd++ sol oth/un 20°C var U 1945FEa (15876) 670
 Kso(Cd(OH)1.56L0.22)=-11.64

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

S203-- 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/S203-- 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/C204 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 KNO3 25°C 2.40M U 1958DAa (16785) 696
B3=5.30

Cd++ cal NaNO3 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			Kso=-8.30	1968RVA (17030)	713

 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
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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
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Cd++	vlt	none	25°C	0.0	U		K1=1.34 B2=2.48 B3=2.85 B4=3.11	1986CRb (17774)	740
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Cd++	vlt	KNO3	25°C	0.10M	C		K1=1.30 B2= 2.15 B3=2.65 B4=3.08	1984CRa (17775)	741
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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
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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
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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
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DH(B2)=-29 kJ mol⁻¹, DH(B4)=-58

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										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	vlt	NaN03	25°C	0.13M	C	M		K1=2.94 B3=5.66 B(CdL(S203))=5.84 B(CdL(S203)2)=7.79 B(CdL(S203)3)=7.03	1985GEa	(18068) 773

Cd++	g1	KN03	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 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.

Data also for substituted ligand

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)
 Methylidiphosphoric 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
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Cd++	vlt	oth/un	25°C	0.1M	U		K1=2.7	1995FFa (18683)	789
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Cd++	vlt	NaClO4	25°C	1.00M	U	M	K1=2.68 B2=4.33	1992UKa (18684)	790
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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
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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
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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
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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
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B3=4.89

Cd++	vlt	NaClO4	30°C	1.0M	C		K1=2.477 B2= 3.91	1988GMc (18689)	795
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B3=5.04
 Method: polarography.

Cd++	gl	NaClO4	30°C	1.0M	U		K1=2.98	1988GMd (18690)	796
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Cd++	vlt	KNO3	42°C	1.0M	C	M	K1=2.00 B2= 4.69	1988KHa (18691)	797
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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
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B3=5.10

Cd++	vlt	NaNO3	25°C	2.0M	C		K1=2.9 B2= 4.00	1987KSg (18693)	799
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B3=4.9

Method: polarography.

Cd++	vlt	NaNO3	25°C	1.0M	U	M	K1=2.65 B2=4.10	1985KAa (18694)	800
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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 B3=4.90	B2= 4.00	1984KSc (18696)	802
Method: polarography. Medium pH 8.0.										
Cd++	vlt	KNO3	30°C	1.00M	U		K1=2.82 B3=5.16	B2=4.22	1983GCa (18697)	803
Cd++	sol	KNO3	25°C	1.00M	U		K1=2.66 B3=5.00	B2=4.29	1983OWb (18698)	804
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 B3=4.89	B2=3.84	1982SCa (18700)	806
Cd++	vlt	KNO3	30°C	0.30M	U	M	K1=2.94 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	B2=4.30	1981AAb (18701)	807
Cd++	vlt	KNO3	30°C	0.30M	U	M	K1=2.94 B3=5.44 B(CdL(Ala)2)=8.18 B(CdL2Ala)=7.11 B(CdLAla)=5.90	B2=4.30	1981APa (18702)	808
Where HA is valine										
Cd++	vlt	KNO3	30°C	0.30M	C	M	K1=2.94 B3=5.44	B2= 4.30	1981APd (18703)	809
Method: polarography. Medium pH 8.0.										
Cd++	vlt	oth/un	25°C	1.0M	C	M	K1=2.61 B3=5.04 B(Cd(en)L)=7.90 B(Cd(en)2L)=11.29 B(Cd(en)L2)=8.39	B2= 4.14	1980LEa (18704)	810
Method: re-analysis of published polarographic data. Medium not stated.										
Cd++	vlt	KNO3	20°C	2.0M	C	T	K1=3.00 B3=5.40	B2= 4.30	1980SGg (18705)	811
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 NaCl04 25°C 1.00M C K1=2.75 1975B0b (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
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Cd++	cal	NaNO3	25°C	1.00M	U	H		1986ARa (19226)	837
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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
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K(Cd+2HL)=2.50

Method: polarography. Medium pH 6.0

Cd++	gl	KNO3	25°C	0.50M	U			1980LKb (19228)	839
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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
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Cd++	gl	KNO3	25°C	0.50M	U		K1=1.01 B2=1.77	1982GLa (19251)	840
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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
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Cd++	gl	KNO3	20°C	2.5M	M		K1=1.12	1979FLc (19345)	841
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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
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Cd++	vlt	NaClO4	18°C	2.00M	U		K1=0.95 B2=0.60	1970FBa (19347)	843
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B3=0.78
 B4=0.85

Cd++	EMF	NaClO4	18°C	2.00M	U		K1=0.84 B2=0.57	1970FMa (19348)	844
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B3=1.54

Cd++	ISE	NaClO4	20°C	1.0M	U		K1=1.2	1934FRa (19349)	845
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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)
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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)
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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
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C2H4O2	HL	Acetic acid	CAS 64-19-7	(36)
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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 1978K0a (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=CdLiClO4+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 B(CdHL)=11.08 B(CdAL)=7.93	1983M0d (20292)	887

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 B3=2.62 B4=2.18	1970FBa (20475)	892
------	-----	--------	------	-------	---	--	--	-----------------	-----

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 B3=3.37	1969WAa (20477)	894
------	-----	--------	------	-------	---	--	-------------------------------	-----------------	-----

Cd++	vlt	KN03	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
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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, K1=3.93, B2=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(K1)=-8.9, DH(B2)=-22.5, DH(B3)=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: B2=7.74, B3=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
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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	1984JOb (21385)	932
							K(Cd(bpy)+L)=4.20		
Medium: not stated.									
Cd++	vlt	KN03	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	NaCl04	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 NaCl04);									
K1=4.19, B2=7.27 (synthetic sea water, 0.72 M).									
Cd++	vlt	KN03	30°C	1.00M	U	M		1983ISc (21388)	935
							B(CuL2A)=11.52		
							B(CuLA2)=11.91		
A=1,2-diaminopropane									
Cd++	ISE	KN03	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	1982MOb (21390)	937
							B(CdAL)=7.47		
Medium: LiCl04. HA=alanine									
Cd++	vlt	KN03	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	KN03	30°C	0.30M	U	T	K1=4.31 B2=7.92	1981AAb (21392)	939
							B3=10.06		
Cd++	vlt	NaCl04	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	NaCl04	25°C	3.00M	U	T	K1=4.28 B2=7.80	1981MAa (21394)	941
Cd++	gl	KN03	30°C	0.10M	U	M		1980MSb (21395)	942
							B(Cd(His)+L)=3.75		

Cd++	gl	KNO3	25°C	2.5M	M	K1=4.29	1979FLc (21396)	943
Cd++	vlt	NaClO4	35°C	0.02M	U	T K1=4.26 B2=7.85 B3=10.07	1979JKa (21397)	944
Cd++	gl	NaNO3	20°C	0.10M	U	K1=4.22 B2=7.69	1978LEb (21398)	945
Cd++	EMF	NaClO4	25°C	1.00M	C	K1=4.36 B2=7.99 B3=10.13 B(CdHL)=10.52	1976B0c (21399)	946
Cd++	gl	KNO3	25°C	0.10M	U	K1=4.5 B2=8.0	1975HLc (21400)	947
Cd++	gl	KNO3	25°C	0.10M	C	T K1=4.26 B2=8.08	1975IPb (21401)	948
Cd++	gl	NaClO4	30°C	0.20M	U	T K1=4.24 B2=7.93	1975JBb (21402)	949
Cd++	gl	KNO3	25°C	1.00M	U	M T K1=3.80 B2=7.10 B3=9.08 B(CdL(NH3))=6.86	1972BP a (21403)	950
Cd++	ISE	NaNO3	25°C	2.00M	U	M	1972FDd (21404)	951
K(CdA2Cl+2L=CdL2Cl+2A)=4.39 K(CdA2Cl2+2L=CdL2Cl2+2A)=4.82 K(CdA2B+2L=CdL2B+2A)=3.44 K(CdA2B2+2L=CdL2B2+2A)=3.64 K(CdA2Br+2L=CdBrL2+2A)=4.23, K(CdA2Br2+2L=CdBr2L2+2A)=4.70, H2A=oxalic acid, B=thiourea. Data for I and SCN complexes also available								
Cd++	gl	none	25°C	0.0	U T	T K1=4.69 B2=8.40 K3=2.28	1972IJb (21405)	952
10 C: K1=4.73, K2=3.76, K3=2.53; 40 C: K1=4.60, K2=3.60, K3=2.00								
Cd++	gl	KNO3	25°C	0.10M	U T	M	1972IVc (21406)	953
K(CdA+L)=3.82 H2A=methyliminodiethanoic acid. 15 C: K=3.92; 50 C: K=3.53; 70 C: K=3.36								
Cd++	ISE	NaNO3	25°C	2.00M	U	M T K1=5.08 B2=8.88 K(CdCl+L)=5.68 K(CdCl+2L)=9.48 K(CdCl2+L)=5.98 K(CdCl2+2L)=9.48	1971FDa (21407)	954
Data for many other ternary complexes with Br, I, SCN, S2O3 and thiourea.								
Cd++	gl	KNO3	25°C	0.50M	U	M T K1=4.18 B2=7.50 B3=9.76 B(CdLA)=7.31	1969HL a (21408)	955
A=salicylaldehyde								
Cd++	gl	KCl	25°C	0.10M	U T	T K1=3.95 B2=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)
Aminooxyethanoic acid; H2N.O.CH2.COOH

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

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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
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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

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Method: polarography.

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Cd++      vlt KNO3   26°C 1.5M C      K1=0.84   B2= 0.20   1981DDb (21837) 971
                                     B3=1.44

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Method: polarography.

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*****
C2H5N3O2          L   Biuret          CAS 108-19-0 (1126)
Carbomoylurea (Allophanic acid); H2N.CO.NH.CO.NH2
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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
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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
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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
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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

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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
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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
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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		1985MCb (22002)	982
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B(CdLBr)=2.20
 B(CdLBr2)=2.82
 B(CdLBr3)=4.45
 B(CdL2Br)=3.51
 B(CdL2Br2) = 4.24, B(CdL3Br) = 4.39, measurements in LiClO4

Cd++	EMF	NaClO4	25°C	1.00M	U	M		1985MCb (22003)	983
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B(CdLBr)=2.09
 B(CdLBr2)=2.80
 B(CdLBr3)=4.17
 B(CdL2Br)=3.21
 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
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In 80%EtOH/H₂O: K1=2.02; B2=2.62; B3=4.00; B4=5.15; B5=6.25

Medium: LiClO₄

C2H6OS HL CAS 60-24-2 (841)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ gl NaNO3 25°C 0.15M C K1=6.06 B2=12.12 1982JAb (22058) 987
polynuclear complexes of form B(BA5/3)_n, where n=3,6,9 ... found. Data
analysed as "core+links" with K=15.23

Cd++ gl KNO3 25°C 0.50M U 1974BPa (22059) 988
K0=-1.625
K=15.205

$\log B_n = \log K_0 + n \log K$ 'core + links'; Cd(Cd3L5)_n complexes. Various hypotheses

Cd++ gl oth/un ? 0.0 U 1961AMa (22060) 989
B4=20.56

C2H6S L CAS 75-18-3 (151)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ nmr alc/w 34°C 50% C K1=-0.3 1980SSa (22187) 990
Also in D2O, K1=-1.4

C2H7N	L	Ethylamine	CAS 75-04-7 (156)
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ ISE NaClO4 25°C 0.10M U M B2=8.04 1972JJa (22266) 991
B(CdL2(NH3))=9.70
B(CdL2(NH3)2)=10.51

C2H7NO	L	Ethanolamine	CAS 141-43-5 (1057)
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2-Aminoethanol; $\text{H}_2\text{N} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{OH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ vlt KNO3 20°C 0.10M U I 1987AAa (22384) 992

B3=5.15
B(CdLOH)=7.44
B(CdL30H)=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+20H+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

C₂H₇N₃O₃S 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
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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
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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;

Method: Cd/Hg electrode.

C2H7O2PS2	HL	CAS 5930-72-3	(4229)
O,O-Dimethyldithiophosphoric acid; (CH3O)2.PS.SH			

Medium: 50% v/v DMF/H₂O. Method: polarography.

C2H7O3P	H2L	CAS 71778-99-9	(1978)
Ethylphosphonic acid;	CH3.CH2.PO3H2		

C2H8N2 L Ethylenediamine CAS 107-15-7 (23)
1,2-Diaminoethane; H2N.CH2.CH2.NH2

A is cytidine.

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; in 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 B3=11.98 1982Rba (23069)1032

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 B3=11.61 1979KZa (23074)1037

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 B3=11.52 1974MKa (23076)1039
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

Cd++	gl	KN03	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	1989N0c (23341)1067
	K(Cd+H3L)=3.5	
	K(Cd+2H3L)=5.4	
	K(Cd+H2L+H3L)=6.5	
	K(Cd+2H2L)=7.6	

Cd++ gI KNO3 25°C 0.10M U K1=5.98 1980ZRC (23342)1068
K(Cd+HL)=4.33
K(Cd+H2L)=3.04

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.1M	C			K1=9.3 B(CdHL)=15.3 B(CdH2L)=18.5	1985MMA	(23445)1069

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)

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 B3=2.22	1965CRb	(23564)1072

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
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Cd++	gl	NaNO3	25°C	0.50M	M		K1=2.79	1998KSa (23797)	1074
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Cd++	gl	KCl	25°C	0.10M	C	TIH	R K1=2.67 K3=1.44 K4=1.06	B2=4.72	1997SJa (23798)	1075
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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 K(CdA+L)=2.24	1993JCa (23799)	1076
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HA=N,N-bis(2-hydroxyethyl)glycine (bicine)

Cd++	vlt	NaNO3	25°C	1.0M	C	M	K1=2.65 B3=5.28 B4=7.10 B(Cd(phthalate)L)=3.95 B(Cd(phthalate)2L)=4.55	B2= 4.30	1992KIa (23800)	1077
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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
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Ternary complexes with glycine, DL-alanine or DL-valine.

Cd++	vlt	NaNO3	25°C	0.50M	U		K1=2.98 B3=6.0 B4=6.79	B2=5.06	1988EAb (23802)	1079
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Cd++	vlt	NaNO3	25°C	1.0M	U	M	K1=2.78 B3=6.43 B4=7.15 B5=8.08 B6=7.18	B2=4.85	1986JAa (23803)	1080
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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 B3=5.47 B4=7.16	B2=4.301	1985KIa (23804)	1081
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By linear sweep voltammetry

Cd++	vlt	NaNO3	25°C	1.00M	U		B4=7.16	1985KIa (23805)	1082
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Cd++	vlt	KNO3	25°C	0.10M	C		K1=2.80 B2= 4.90	1984CRa (23806)	1083
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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
 $K(\text{Cd}+\text{Gly}+\text{L}=\text{Cd}(\text{Gly})\text{LOH}+\text{H})=-0.34$
 $B(\text{CdL}(\text{Gly}))=8.030$

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; $K(\text{Cd}+\text{L}+2\text{Cl}=\text{CdLCl}_2(\text{s}))=7.76$; $K(\text{Cd}+6\text{L}+2\text{X}=\text{CdL}_6\text{X}_2)=13.8$; 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
 $K(\text{CdA}+\text{L})=4.23$

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
 $K(\text{Cd}(\text{ATP})+\text{L})=2.03$

Cd++ gl NaNO3 25°C 0.10M A M K1=2.71 1982SSa (23813)1090
 $K(\text{Cd}(\text{ATP})+\text{L})=2.03$
 $K(\text{CdA}+\text{L})=2.33$

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
 $B(\text{CdH}-1\text{L})=-6.59$

Cd++ vlt NaNO3 25°C 2.00M U M K1=2.7 B2=4.0 1981SJa (23815)1092
B3=5.3
B4=7.0
 $B(\text{CdLA})=4.0$
 $B(\text{CdLA}_2)=4.4$

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 B3=6.45	1979BEc (23947)	1109

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 B3=2.80	1982GKa (23959)	1110

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	NaCl04	30°C	1.0M	C	M	K1=0.778 B2= 1.18 B3=1.43 B(Cd(ox)L)=3.15 B(Cd(ox)L2)=3.154 B(Cd(ox)2L)=3.94	1988GMc	(24038)1113

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	NaCl04	30°C	1.0M	U	M	K1=2.47 K(Cd(ox)+L)=3.55 K(Cd(cit)+L)=3.15	1988GMd	(24039)1114
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Cd++	gl	NaCl04	25°C	2.00M	U		K1=0.69	1980MKb	(24040)1115
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Cd++	gl	NaCl04	25°C	3.00M	C		K1=0.98	1978FGa	(24041)1116
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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 B(Cd(phe)L)=7.32	2001ZGa	(24328)1117

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
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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
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Cd++	vlt	NaNO3	25°C	1.00M	U	M	K1=1.85 B2=2.76 B3=3.65 B(CdLA)=6.72 B(CdL2A)=7.51 B(CdLA2)=8.13	1989KIa	(24331)1120
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A=1,3-Diaminopropane

Cd++	vlt	NaCl04	25°C	1.0M	C	M	K1=2.0 B2= 3.20 B3=3.7	1988RRb	(24332)1121
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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 NaCl04 25°C 0.10M U K1=2.64 19700Va (24345)1134

Cd++ gl NaCl04 25°C 0.10M U K1=2.64
K(Cd+HL)=1.49

Cd++ gl NaCl04 20°C 0.10M U K1=2.51
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 1972TOa (24611)1142
B3=3.79

Cd++ gl NaCl04 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 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
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Medium: 64% w/w MeOH/H2O, 0.2 M LiClO4

Cd++	vlt	NaClO4	20°C	0.20M	U		B2=4.65	1982Mca	(24768)1149
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Cd++	sp	NaClO4	20°C	0.20M	U		K1=2.13	1982Mca	(24769)1150
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Cd++	ISE	mixed	25°C	82%	U		K1=4.80 B3=5.55	1979MTc	(24770)1151
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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	KNO3	25°C	0.50M	U		K1=1.54 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 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
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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
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Cd++	vlt	KN03	25°C	0.40M	C			1984HSb (24869)	1155
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B3=13.87

Method: polarography.

Cd++	dis	KN03	25°C	1.00M	U		B2=7.9 B3=10.3	1983SAa (24870)	1156
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Cd++	vlt	KN03	25°C	1.0M	U I			1967KHc (24871)	1157
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B4=11.05

In 50% DMF, 2 M KN03: 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
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Cd++	vlt	NaClO4	25°C	2M	C		K1=1.15 B2=2.07 B3=2.07	1996GGa (24963)	1158
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Method: Differential Pulse Polarography

Cd++	oth	NaClO4	25°C	2.0M	U		K1=1.34	1990FTa (24964)	1159
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Methods: averaged results from potentiometric, polarographic and
 spectrophotometric measurements.

Cd++	vlt	NaClO4	25°C	2.0M	C		K1=1.32 B2= 1.99 B3=2.33	1984TMe (24965)	1160
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Method: polarography.

Cd++	vlt	NaClO4	25°C	2.00M	U	M	K1=1.29 B3=2.31 B(CdLA)=2.42 B(CdL2A)=2.99	1980TMa (24966)	1161
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HA=ethanoic acid

Cd++	ISE	NaClO4	25°C	8.00M	U	I	K1=2.39 B2=4.30 B3=5.69	1976FHa (24967)	1162
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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

Cd++ vlt NaClO4 25°C 2.00M U K1=1.15 B2=2.20 1973NPa (25256)1174
B4=2.26

C3H6O3 HL L-Lactic acid CAS 79-33-4 (82)
L-2-Hydroxypropanoic acid; CH₃.CH(OH).COOH

Cd++	g1	NaCl04	25°C	2.00M	U	K1=1.29	B2=2.00	1976KGa	(25371)1176
						B3=2.64			

Cd++	vlt NaCl04 25°C 2.00M U	K1=1.32	B2=2.04	1968FPa (25373)1178
		B3=2.46		
		B4=1.84		
		B5=1.60		
		B6=1.52		

Method: quinhydrone electrode.

C3H6O4 HL Glyceric acid CAS 473-81-4 (2520)
2,3-Dihydroxypropanoic acid; HO.CH2.CH(OH).COOH

Cd++ vlt NaCl04 ? 2.00M U K1=1.60 B2=2.12 1968TFa (25627)1182
K3=0.42
K4=-0.22

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	KN03	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	NaCl04	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	KN03	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	1984J0b (26089)1210	
							K(Cd(bpy)+L)=4.05		
Medium: not stated.									
Cd++	gl	NaCl04	20°C	0.70M	C		K1=3.902	B2= 7.27	1984SCb (26090)1211
By DPP: K1=3.75, B2=7.20.									
Cd++	vlt	KN03	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	KN03	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	KN03	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	1982M0b (26094)1215
							B(CdAL)=7.13		
Medium: LiCl04. HA=2-aminobutanoic acid									
Cd++	vlt	KN03	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 1964JOa (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 B3=9.15 1962RSb (26106)1227

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

A=ethylenediaminetetrapropanoate ion

Cd++	vlt KN03	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 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

Ternary complex with imidazole (A): $B(CdAL)=6.72$

Cd++ vlt KN03 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

Cd++ gl NaCl04 25°C 3.00M U K1=3.99 B2=7.28 1981MAa (26536)1246

Cd++ gl KN03 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
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Cd++ gl KN03 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 1974WLa (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-Aminooxypropanoic acid; CH₃.CH(O.NH₂).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO ₃	25°C	0.50M	U		K1=2.42	1985WTa (27210)	1283

C ₃ H ₇ N ₃ O ₃		HL		iso-Serine			CAS 632-12-2	(351)	
DL-3-Amino-2-hydroxypropanoic acid; H ₂ N.CH ₂ .CH(OH).COOH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO ₃	25°C	0.10M	C	M		1988ACa (27228)	1284
							B(CdHL)=11.14		
							B(Cd ₂ H-2L ₂)=-6.62		
							B(CdH-2L ₂)=-11.75		

Also B(CdZnH-2L₂)=-4.33; B(CdCoH-2L₂)=-4.97.

C ₃ H ₇ N ₅ S ₂		HL					CAS 128-04-1	(2125)	
Dimethyldithiocarbamic acid; (CH ₃) ₂ N.CSSH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++		EMF non-aq	25°C	100%	U		B ₂ =12.4	1987USa (27272)	1285
Medium: DMF, 0.1 M LiClO ₄									

Cd++	vlt	mixed	RT	50%	C			1986HSd (27273)	1286
							B ₃ =19.12		

Medium: 50% v/v DMF/H₂O. Method: polarography.

C ₃ H ₇ N ₅		L					(6903)		
5-(2-Aminoethyl)-1H-tetrazole; NH ₂ .CH ₂ .CH ₂ .CHN ₄									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO ₃	20°C	0.10M	U		K ₁ =5.11 B ₂ =9.20	1978LEb (27290)	1287

C ₃ H ₇ O ₅ P		H ₃ L					CAS 5926-41-4	(3549)	
2-Phosphonopropanoic acid; CH ₃ .CH(PO ₃ H ₂).COOH									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	R ₄ N.X	25°C	0.25M	U		K ₁ =2.96	1957WBa (27298)	1288
Medium: 0.1-0.4 M (C ₃ H ₇) ₄ NI									

C ₃ H ₇ O ₆ P		H ₂ L					(6830)		
3-Hydroxy-2-oxopropylphosphoric acid; CH ₂ (OH).CO.CH ₂ .OP ₃ H ₂									

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO ₃	25°C	0.10M	U		K ₁ =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 1997RPc (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 NaCl04 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
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Cd++	vlt	KNO3	25°C	0.10M	U		B2=4.67 B3=5.08 B4=4.79	1980AAa (27887)	1309
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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
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Cd++	vlt	KNO3	25°C	0.10M	U		K1=5.14	1981AAa (27916)	1310
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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
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Cd++	gl	KNO3	30°C	1.0M	U		K1=3.22 B2=5.52	1956BFc (27943)	1311
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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
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Cd++	gl	alc/w	25°C	10%	C			1989GVa (27951)	1312
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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
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Cd++	gl	NaNO3	25°C	0.10M	M		K1=3.01	1992SCa (28017)	1313
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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
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Cd++	gl	NaNO3	25°C	0.10M	U		K1=2.43	1992LCb (28042)	1314
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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	KNO ₃	25°C	0.10M	C		K ₁ =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	KNO ₃	27°C	?	U		K ₁ =7.90 B ₂ =9.60 B ₃ =11.34	1979GBc (28158)	1316

Cd++	vlt	NaClO ₄	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
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Method: polarography. K(Cd+5HL)=5.65, K(Cd+6HL)=5.93.

Cd++	gl	NaClO ₄	30°C	0.15M	U	M	K ₁ =6.20 B(CdL(bpy))=5.69	1974PBb (28160)	1318
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Cd++	vlt	KNO ₃	25°C	>0.1	U		B ₃ =12.27	1950DLa (28161)	1319
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Cd++	gl	KNO ₃	30°C	0.50M	U		K ₁ =5.42 B ₂ =9.97 K ₃ =2.15	1945CMA (28162)	1320
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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	KNO ₃	20°C	0.10M	C	M	B(CdAHL)=16.93 K(CdA+HL)=3.92	2003LBa (28279)	1321

A is cytidine.

Cd++	gl	KNO ₃	20°C	0.10M	U		K ₁ =3.98 B ₂ = 8.05	1999LBa (28280)	1322
Cd++	vlt	NaNO ₃	25°C	1.0M	C		K ₁ =5.60 B ₂ = 7.54 B ₃ =8.55	1990KMe (28281)	1323

Method: DP and DC polarography. Medium pH 8.0

Cd++	vlt	NaNO ₃	25°C	1.00M	U	M	K ₁ =5.48 B ₂ =7.59 B ₃ =8.31	1989KIa (28282)	1324
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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(CH2PO3H2)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.PO3H2

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 1988NKb (28542)1350
K(Cd+H3L)=3.6
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

K(Cd+HL)=5.64
K(Cd+L+OH)=13.18
K(Cd+L+2OH)=16.29
K(CdLOH+OH)=3.12

A is adenine.

$$\begin{aligned} K(\text{Cd}+\text{HL}) &= 5.44 \\ K(\text{Cd}+\text{L}+20\text{H}) &= 16.24 \\ K(\text{CdLOH}+\text{OH}) &= 3.17 \end{aligned}$$

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; H00C.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
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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
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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;

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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
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Cd++       gl  NaNO3   25°C 0.50M M          K1=2.19      1998KSa (29332)1368
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C4H5N3                L                      CAS 109-12-6 (1480)
2-Amino-1,3-diazine; C4H3N2.NH2
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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;
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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
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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
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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
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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
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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
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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; HOOCH(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; HOOCH2.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; HOOCH(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; HOOCH(SH).CH(SH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	C		B(Cd4H5L4)=105.4 B(Cd4H4L4)=100.9 B(Cd4H3L4)=94.8 B(Cd4H2L4)=87.4	2002CDc (30391)	1406
B(Cd4HL4)=79.4, B(Cd4L4)=69.4.									

Cd++	gl	NaCl	37°C	0.15M	U		K1=17.11 B(CdHL)=23.50 B(CdH3L)=28.73	1984JSb (30392)	1407

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 K(Cd+HL)=1.82	1975LPa (30447)	1409

C4H6O5		H2L					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 B3=3.46	1985KCa (30564)	1411
Cd++	vlt	KNO3	30°C	1.00M	U		K1=1.90 B2=2.80 B3=3.40	1983GCa (30565)	1412
Cd++	vlt	NaNO3	25°C	2.10M	U		K1=1.54 B2=2.60 B3=3.42	1977JBa (30566)	1413
Cd++	vlt	KNO3	27°C	0.10M	U		K1=1.9 B2=2.8 B3=3.4 K(Cd+H2L)=0.57	1973KGb (30567)	1414
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; H00C.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; H00C.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; H00C.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: isotachophoresis. 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; H00C.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++ gl KNO3 25°C 0.10M C K1=5.0 B2= 9.20 1989ARa (31439)1437

K3=3.2

C4H7NO2S2 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 B3=16.96	1972RBb (31476)	1438

C4H7NO2S2 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 B3=16.96	1973RBc (31480)	1439

C4H7NO3 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

C4H7NO4 H2L Aspartic acid CAS 56-84-8 (21)
Aminobutanedioic acid; H2N.CH(CH2.COOH).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	C	M	K1=6.62 K(CdL+A)=3.57	2003AHa (31756)	1441

HA is 3-amino-5-mercapto-1,2,4-triazole.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.10M	C	M	K1=4.58 K(CdA+L)=4.83	2000KAb (31757)	1442

H2A=Dipicolinic acid.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	vlt	KNO3	25°C	0.10M	C	M	K1=4.37 B2= 7.58 B3=10.24 B(CdAL)=4.86 B(CdA2L)=7.825 B(CdAL2)=10.525	1998JKb (31758)	1443

Method: polarography. Medium pH 8.50. HA is nicotinic acid.

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaClO4	25°C	0.20M	U	M	K1=4.53 B2= 8.03 K(Cd(bpy)+L)=4.29 K(Cd(phen)+L)=4.57 K(CdA+L)=4.49 K(Cd(his)+L)=4.40	1997PJa (31759)	1444

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

$$B(\text{CdL(en)}_2) = 11.1$$

Cd++ gl KNO3 25°C 0.10M M K1=4.62 B2= 7.69 1981GVa (31771)1456

Cd++ g1 NaCl04 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 KN03 25°C 0.10M U K1=4.7 B2=8.1 1975HLC (31774)1459

Cd++ gl NaCl04 30°C 0.20M U K1=4.53 B2=8.03 1975JBb (31775)1460

Cd++ ISE NaCl104 25°C 3.00M C K1=5.01 B2=9.12 1974WWa (31776)1461

Cd++ g1 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 KN03	30°C	1.0M U	M	B2=8.89 B3=10.31 B(CdL2(OH))=9.80 B(CdL2(CO3))=8.14 K(CdL2(NH3)2)=9.81	1964RSe (31779)
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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
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Cd++ g1 NaNO3 25°C 0.10M M K1=5.82 1996KSc (32162)1469

Cd++ gl NaCl04 25°C 0.20M M M 1996VBa (32163)1470

$$K(\text{Cd}(\text{a1a})+\text{L})=4.22$$
$$K(\text{Cd}(\text{phe})+\text{L})=3.76$$
$$K(\text{Cd}(\text{tyr})+\text{L})=3.69$$
$$K(\text{Cd}(\text{trp})+\text{L})=3.82$$
$$K(\text{Cd}(\text{gly-gly})+\text{L})=2.10, \quad K(\text{Cd}(\text{gly-ala})+\text{L})=2.16, \quad K(\text{Cd}(\text{en})+\text{L})=4.72.$$

Cd++	ISE	alc/w	25°C	78%	C	K1=8.34 K3=3.07 B(Cd2L2)=19.65	B2=14.34	1995LBb (32164)	1471
Medium: 78% EtOH/H2O, 0.01 M LiNO3. (Kw=-14.76. B(Cd(OH)2)=14.75)									
Cd++	gl	NaCl04	25°C	0.50M	U	K1=5.55 B(CdH-1L)=-5.3	B2=9.99	1992GLa (32165)	1472
Cd++	vlt	KNO3	25°C	1.00M	U M	B(CdL(Gly))=10.2 B(CdL(en))=10.7 B(CdL2(en))=11.5 B(CdL(en)2)=11.1		1984MRa (32166)	1473
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	NaCl04	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	K(CdL+A)=6.04 K(CdL+B)=10.92 K(CdL+C)=10.76		1978KCC (32171)	1478
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	K(CdL+Ala)=3.55 K(CdL+Gly)=3.79 K(CdL+Asp)=3.89		1971TSh (32172)	1479
Cd++	gl	KNO3	30°C	0.10M	U M	K(CdL+pn)=4.76		1971TSj (32173)	1480
Cd++	EMF	oth/un	30°C	0.10M	U M	K(CdL+en)=4.59 K(CdL+pn)=4.76		1970STf (32174)	1481
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

C4H7NO5 H2L (1234)
N-Hydroxyiminodiethanoic acid; HO.N(CH2.COOH)2

C4H7N3S L CAS 14068-53-2 (1456)
2-Amino-5-ethyl-1,3,4-thiadiazole; C2N2S(C2H5).NH2

C4H7N3S L CAS 13275-68-8 (1427)
2-Ethylamino-1,3,4-thiadiazole; C2HN2S.NHC2H5

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

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

Cd++ EMF NaCl 25°C 1.00M C K1=3.05 B2=5.40 1996BFa (32657)1490
B3=6.15

Cd++ vlt KN03 25°C 1.0M U M K1=4.07 B2= 7.18 1989KNb (32658)1491
K3=1.92
B(CdAL)=5.95
B(CdA2L)=7.94
B(CdAL2)=8.30

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 NaCl04 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 NaCl04 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	NaCl04	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 NaCl04 25°C 0.20M M K1=2.92 1996VBa (32977)1501

Cd++ gl NaCl04 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 NaCl04 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
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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
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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
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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; $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K	values	Reference	ExptNo
Cd++	oth	NaCl04	25°C	2.0M	U		K1=1.24		1990FTa	(33316)1527
Methods: averaged results from potentiometric, polarographic and spectrophotometric measurements.										
Cd++	ISE	NaCl04	25°C	8.00M	U	I	K1=2.34 B3=5.76	B2=4.42	1976FHa	(33317)1528
Cd++	EMF	NaCl04	25°C	2.00M	U		K1=1.20	B2=2.03	1970FMa	(33318)1529
Cd++	vlt	NaCl04	25°C	2.00M	U		K1=1.30 B3=2.34 B4=1.98	B2=1.93	1968FPa	(33319)1530

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 K3=-0.38	1977ARa	(33400)1532
DH(K1)=3.1 kJ mol ⁻¹ , DH(K2)=1, DH(K3)=0										

Cd++	ISE NaCl04 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	NaCl04	25°C	1.0M	U			K1=1.24 K3=0.3	B2=2.16	1967TGa (33439)1534

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 B3=3.00	1978MMg (33571)	1536
Cd++	vlt	NaClO4	25°C	2.00M	U		K1=1.23 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 B3=2.49	1978MMg (33614)	1540
Cd++	vlt	NaClO4	25°C	2.00M	U		K1=1.11 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 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 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 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 1972IVc (34028)1560
K(CdA+L)=3.37

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	NaCl04	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
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Cd++	gl	KNO3	25°C	0.10M	U			K1=3.77 B2=7.09	1964LMa	(34091)1566
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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		1990SHd (34111)1567 K(Cd(nta)+L)=5.72 K(Cd(nta)+H+L)=14.76		

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
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Method: polarography. Medium pH 8.5. HA is formic acid.
 K(H+L)=9.00.

Cd++	gl	NaCl04	25°C	0.20M	U	T	M	K1=4.02 B2= 7.22 K(CdA+L)=3.72	1993PPa	(34264)1570
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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
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A=bis(imidazol-2-yl)methane

Cd++ vlt NaCl04 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-methylenepropene;

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 NaCl04 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 B2=1.30 1975FFb (34631)1589
B3=2.73
B4=2.60
B5=3.54
B6=5.28

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 B2=3.41 1975FFb (34635)1590
B3=4.70
B4=5.98
B5=6.66
B6=7.34

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 NaCl04 25°C 1.0M U K1=1.90 B2=3.65 1966KSb (34646)1591
B3=4.99
B4=4.95

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

B(CdH-1L2) by spectrophotometry.

C4H11N	L	Butylamine	CAS 109-73-9 (159)
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1-Aminobutane; $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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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: $\Delta H(K1) = -24.1$, $\Delta H(B2) = -58$, $\Delta H(B3) = -71 \text{ kJ mol}^{-1}$.

C4H11N	L	Diethylamine	CAS 109-89-7 (1331)
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Diethylamine, 3-azapentane; $(\text{C}_2\text{H}_5)_2\text{NH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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Cd++ ISE NaClO4 25°C 0.10M U M B2=8.04 1972JJJ (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: NH_4NO_3

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
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Cd++ vlt KN03 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; $\text{CH}_3.\text{C}(\text{NH}_2)(\text{CH}_3).\text{CH}_2.\text{OH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ gl KN03 25°C 0.5M C K1=2.41 B2= 4.48 1998CCc (34850)1598

C4H11NO2	L	Diethanolamine	CAS 111-42-2 (89)
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2,2'-Iminodiethanol; $\text{HN}(\text{CH}_2\text{CH}_2\text{OH})_2$

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

C4H11NO8P2 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									

C4H1102PS2 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%)									

C4H1104P H2L (5867)
n-Butyl phosphoric acid; C4H9.O.PO(OH)2

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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
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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
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-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  KNO3   20°C 0.10M C    M          B(CdAHL)=16.88
                                     K(CdA+HL)=3.90
A is cytidine.
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Cd++       gl  KNO3   20°C 0.10M U          K1=3.98   B2= 7.20  1999LBa (35360)1621
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Cd++       gl  oth/un 20°C 1.0M U          K1=3.6     1962SSc (35361)1622
                                     K(Cd+HL)=2.3
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Medium: Ba(ClO4)2

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*****
C4H12N2           L   Dimeen          CAS 110-70-3 (125)
N,N'-Dimethyl-1,2-diaminoethane; CH3.NH.CH2.CH2.NH.CH3
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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
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```

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.

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-----
Cd++       ISE R4N.X 25°C 0.10M C          K1=5.28   B2= 8.90  2001CGd (35418)1624
                                     B3=10.8
-----

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Method: Cd ion selective electrode. Medium: 0.10 M Et4NClO4.

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-----
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
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*****
C4H12N2           L                      CAS 108-00-9 (2661)
N,N-Dimethyl-1,2-diaminoethane; (CH3)2N.CH2.CH2.NH2
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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	25°C	100%	C H		K1=5.00 B2=10.41	2004DMb	(35502)1627

Medium: dmsO, 0.1 M Et4NClO4. 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
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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	25°C	100%	C H		K1=5.35 B2=10.56 B3=13.0	2004DMb	(35537)1629

Medium: dmsO, 0.1 M Et4NClO4. 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
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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
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Method: polarography.

Cd++	vlt	KNO3	30°C	1.50M	C		K1=5.39 B2=9.80	1982SCa	(35542)1634
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Cd++	vlt	NaClO4	25°C	1.0M	C I		K1=7.14 B2=9.36	1980PAa	(35543)1635
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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
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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.

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
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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
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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
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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	1999LBa (35743)	1644
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B3=16.48
B(CdH2L2)=26.67

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(try)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 1969ESb (35747)1648
 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-Bromoorotic 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		K(Cd+HL)=2.02	1961TDb	(36126)1663

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.COOH

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
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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=triocetylphosphine oxide. Medium: 1,2-dichloroethane.

Cd++	dis non-aq		25°C	100%	U			1989STa	(36530)1671
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K(CdCl2A2+L=CdCl2AL+A)=0.19
K(CdCl2AL+L=CdCl2L2+A)=-0.59
K(CdBr2A2+L=CdBr2AL+A)=0.10

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Method: Cd amalgam electrode.

$$R = N(Bu)_4$$

Medium: C₂H₄Cl₂. A=tetraphenylporphyrin

In 0.5 M KNO₃, K₁=1.42, B₂=1.96, B₃=2.40

Medium: MeCN

In benzene. A=diethyldithiocarbamate; DH=-51 kJ mol⁻¹, DS=-122. B=dibutyldithiocarbamate; DH=-31; DS=-66. C=dibenzoyldithiocarbamate; DH=-40; DS=-78

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									

C5H5N02 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 B(CdHL2)=21.46	1979GBd (36803)	1697

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 K(Cd+HL)=4.03 K(Cd+HL+OH)=13.00 K(CdHL+OH)=8.93	2000SSd (36953)	1700

Also data for ternary complexes.

Cd++	gl	NaNO3	25°C	0.10M	U		K1=5.60	1996SGa (36954)	1701
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Cd++	gl	NaClO4	25°C	0.10M	M		K(Cd+HL)=1.49 K(Cd(atp)+HL)=1.36	1995LWa (36955)	1702
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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
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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
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Method: polarography, medium pH 9.5.

Cd++	gl	KNO3	20°C	0.10M	U	TIH	K1=3.19 B2= 6.16	1982KMe	(37189)1713
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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.

C5H6N2O5 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

C5H6N2O5 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
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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
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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 B3=3.25	1979JAb	(37408)1719
Cd++	vlt	KNO3	25°C	2.50M	U	M	K1=1.73 B3=3.20 B(CdL(SCN))=2.30 B(CdL(SCN)2)=2.74	1979JBb	(37409)1720
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 K(CdL+H)=2.67	1984MMg	(37486)1722

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-Dimethylhydantion

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
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Cd++	dis	NaClO4	25°C	1.0M	U	I	K1=3.94 B2=6.68	1977SIb (37880)	1734
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Cd++	vlt	KNO3	30°C	0.70M	U		B2=6.12	1962SSa (37881)	1735
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Cd++	gl	alc/w	30°C	100%	M		K1=2.7	1960DRa (37882)	1736
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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.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ EMF diox/w 25°C 50% U K1=2.68 1978SPa (38158)1741

C5H8O3	HL	Laevulinic acid	CAS 123-76-2	(941)
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4-Ketopentanoic acid; $\text{CH}_3\text{COCH}_2\text{CH}_2\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ vlt NaCl04 30°C 1.00M U K1=1.04 B2=1.62 1970Gpc (38168)1742

C5H8O4 H2L CAS 595-46-0 (1144)

Dimethylmalonic acid; $\text{HOOC.C(CH}_3)_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ g1 NaCl04 25°C 0.10M U K1=2.54 19700Va (38204)1743

Cd++ gl NaCl04 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; $\text{HOOC} \cdot \text{CH}(\text{C}_2\text{H}_5) \cdot \text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ gl NaCl04 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)
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Pentanedioic acid; $\text{HOOC} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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
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Cd++	gl	KN03	25°C	0.10M	C		K1=3.09 K(Cd+HL)=1.05	1975LPa (38380)	1747
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 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
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Cd++	gl	oth/un	20°C	?	U T		K1=2.82 B2=5.45	1984SPa (38394)	1748
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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
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Cd++	gl	KCl	25°C	0.10M	C			2002CDc (38401)	1749
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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
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Cd++	gl	KN03	25°C	0.10M	C		K1=3.772 B2=7.13	1975IPb (38466)	1750
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 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
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Cd++	gl	KN03	35°C	0.10M	C		K1=4.24 B2= 7.58	1998ZWa (38588)	1751
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B(CdH-1L2)=-1.56

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime

Cd++	vlt	KN03	25°C	1.0M	C	M	K1=4.70 B2= 8.72	1997KKb (38589)	1752
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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 NaCl04 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 NaCl04 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 NaCl04 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 NaCl04 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 NaCl04 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 PMID4 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++	g1	KN03	30°C	0.10M	U	T	HM	K1=12.63	B2=22.28	1997R _{Pc}	(39657)1809
								K(CdL+gly)=3.33			
								K(CdL+ala)=3.47			
								K(CdL+A)=7.35			
								K(Cd(phen)+L)=12.38			

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Cd++      g1  KCl      30°C 0.10M U      K1=8.5      19580Mb (39658)1810
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C5H10N2O2      HL      (3039)
Dimethylglyoxime O-methyl ether; CH3.C(:N.OH).C(:N.O.CH3).CH3

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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									

Cd++ vlt KN03 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
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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
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Cd++	gl	oth/un	25°C	0.01M	U			K1=1.5	1954PEa	(40099)1831
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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
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Cd++	vlt	KNO3	25°C	0.40M	C			B3=14.04	1984HSb	(40154)1832
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Method: polarography.

Cd++	dis	KNO3	25°C	1.00M	U			B2=10.2	1983SAa	(40155)1833
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C5H10O5S2 HL CAS 6791-12-4 (8866)
Isobutoxydithiomethanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	vlt	KNO3	25°C	0.40M	C			B3=14.04	1984HSb	(40167)1834
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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
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Cd++	ISE	NaClO4	25°C	3.0M	U			K1=1.34 B2=2.30	1943LEa	(40184)1835
								B3=2.50		
								B4=2.00		

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
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 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 B3=5.65 B4=6.42	1978PSc (40439)	1837

Method: polarography.

C5H11NO2 HL Valine CAS 72-18-4 (43)
 2-Amino-3-methylbutanoic acid; H2N.CH(CH(CH3)2)COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	35°C	0.10M	C	M	K1=3.82 B(CdH-1L2)=-1.98 B(CdH-2L2)=-11.32	1998ZWa (40655)	1838

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 K(CdA+L)=3.88	1993PPa (40656)	1839
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A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++	vlt	NaClO4	25°C	1.0M	C		K1=3.61 B3=9.18 K(Cd+HL)=0.84 K(Cd+2HL)=1.38 K(Cd+3HL)=2.18	1992RAf (40657)	1840
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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
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Using cyclic voltammetry: B2=6.78, B3=8.83

Cd++	gl	KNO3	25°C	0.10M	M	M	K(Cd(nta)+L)=2.52	1990SHd (40659)	1842
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Cd++	vlt	KNO3	25°C	1.0M	U	M	K1=4.11 K3=1.95 B(CdAL)=5.96 B(CdA2L)=8.00 B(CdAL2)=8.37	1989KNb (40660)	1843
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Method: polarography. Medium: pH 8.5. HA is formic acid.

Cd++	vlt	KNO3	25°C	1.0M	C	M	K1=4.11 B3=9.16	1989NKc (40661)	1844
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Method: polarography. Medium pH 8.5. HA is ethanoic acid. $B(CdA2L)=8.19$.

A=bis(imidazol-2-yl)methane

A is 2,2'-dipyridylamine.

Cd++	vlt	KN03	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			

Medium: not stated.

Medium: LiClO₄. HA=2-aminohexanoic acid

H2A=oxalic acid

[illegible]

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
K(CdA+L)=1.60

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.


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-----
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

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-----
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

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*****
C5H11NO2S          HL          CAS 93964-73-9 (3633)
Cysteine ethyl ester; H2N.CH(CH2.SH).CO.OCH2.CH3

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-----
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

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-----
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

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-----
Cd++      oth NaCl04 35°C  ?   U          K1=9.30   B2=16.61  1991TSb (41177)1886
Method: Electrophoresis

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-----
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

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-----
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

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-----
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

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*****
C5H11NO2S          H2L      Penicillamine   CAS 52-66-4 (350)

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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 K(Cd(nta)+L)=5.18	1993SGb	(41242)1890

Method: electrophoresis. Medium: pH 8.5

Cd++	gl	NaCl	37°C	0.15M	U		K1=10.742 B2=17.68 B(CdHL2)=24.67	1984JSb	(41243)1891
------	----	------	------	-------	---	--	--------------------------------------	---------	-------------

Cd++	gl	NaCl	37°C	0.15M	U		K1=10.742 B2=17.684 B(CdHL2)=24.671	1982HFa	(41244)1892
------	----	------	------	-------	---	--	--	---------	-------------

Cd++	gl	NaCl04	25°C	3.00M	C		K1=12.68 B2=20.68 B(CdHL)=17.15 B(CdHL2)=28.31 B(CdH2L2)=34.53 B(CdH-1L2)=9.14	1976Cwa	(41245)1893
------	----	--------	------	-------	---	--	--	---------	-------------

Cd++	vlt	oth/un	25°C	0.20M	U		B3=13.08	1966SPa	(41246)1894
------	-----	--------	------	-------	---	--	----------	---------	-------------

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 B(CdH-1L)=-2.62	1981CPb	(41292)1897

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
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Cd++	EMF	non-aq	25°C	100%	U		B2=12.5	1987USa	(41339)1898
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Medium: DMF, 0.1 M LiCl04

Cd++	vlt	mixed	RT	50%	C		B3=19.83	1986HSd	(41340)1899
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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

C5H11O8P 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

C5H12O3S4 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

C5H12O4S3 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

C5H12O5S4 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

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*****
C6HOC15          HL          CAS 87-86-5  (506)
Pentachlorophenol; H0.C6.C15

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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.

Cd++ sp oth/un 21°C 0.40M U K1=1.40 1955BKa (42086)1930
Medium:0.2-0.6(some EtOH)

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.

Cd++ gl diox/w 25°C 50% U K1=4.03 1961SHa (42177)1932
Medium: 50% dioxan, 0.1 M KNO3

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

$$K(RCdCl_3L+L=CdCl_2L_2+RCl)<-4.5$$

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.

C₆H₅N₂O₂ 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

Cd++ g1 NaNO3 25°C 0.50M U K1=4.18 B2=7.61 1968SPa (42478)1942
B3=10.14

Medium: 50% dioxan, 0.1 M KNO₃

Cd++ g1 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++ g1 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	KN03	25°C	0.10M	C		K1=1.40	B2= 2.20	1998JKb	(42658)1947
Method: polarography. Medium pH 8.50.										

Cd++ vlt NaCl04 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 B(CdH-1L)=1.07	B2=11.87	1986HAB (42852)1950

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	KN03	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++ g1 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

$$\begin{aligned} B(0,1,1) &= 2.022 \\ B(-1,1,1) &= -5.26 \\ B(-1,1,2) &= -2.97 \\ B(-2,1,2) &= -10.933 \end{aligned}$$

$B(p, q, r): pH + qM + rHL = HpMq(HL)r$. $B(-2, 2, 2) = -8.02$, $B(-3, 2, 2) = -16.66$,
 $B(-3, 1, 3) = -18.35$.

Cd++ g1 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	KN03	25°C	0.20M	U	M	K1=1.8	B2=2.80	1973Mwa	(43314)

$$\begin{aligned} B(\text{CdLA2}) &= 6.7 \\ B(\text{CdLA3}) &= 8.2 \end{aligned}$$

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	KN03	25°C	1.0M	C	M	K1=0.67	B2= 0.76	1983D0b	(43337)

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(try)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
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

$K(\text{CdCl}_2\text{AL}+\text{L}=\text{CdCl}_2\text{L}_2+\text{A})=-0.23$
 $K(\text{CdBr}_2\text{A}_2+\text{L}=\text{CdBr}_2\text{AL}+\text{A})=0.60$
 $K(\text{CdBr}_2\text{AL}+\text{L}=\text{CdBr}_2\text{L}_2+\text{A})=-0.57$

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
 $K(\text{R}_2\text{CdCl}_4+\text{L}=\text{RCdCl}_3\text{L}+\text{RC1})=-0.24$
 $K(\text{RCdCl}_3\text{L}+\text{L}=\text{CdCl}_2\text{L}_2+\text{RC1})=-2.74$

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
 $K(\text{CdI}_2+\text{L})=3.30$
 $K(\text{CdI}_2\text{L}+\text{L})=2.60$

Medium: MeCN

 Cd++ cal non-aq 30°C 100% U H 1976AGc (44795)2012
 $K(\text{CdA}_2+\text{L})=2.23$
 $K(\text{CdB}_2+\text{L})=3.40$

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
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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(try)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
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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
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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
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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
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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
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Cd++	gl	KNO3	25°C	0.50M	U			K1=1.70 B2=2.92	1987KLb (45007)	2023
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C6H7NO2 HL CAS 19365-01-6 (2311)

3-Hydroxy-1-methylpyridin-4(1H)-one;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KN03	37°C	0.15M	C		K1=5.77 B2=10.25 K3=2.3	1979SPd (45041)	2024

C6H7N03S HL Metanilic acid (3121)
Aniline-3-sulfonic acid; H2N.C6H4.S03H

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	oth/un	25°C	1.0M	U		K1=0.26 B2=0.56	1958ACb (45069)	2025

C6H7N30 L CAS 553-53-7 (4361)
Pyridine-3-carboxylic acid hydrazide; C5H4N.CO.NH.NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	vlt	NaCl04	25°C	1.0M	U		K1=1.20 B2=2.44 B3=3.29	1965KSb (45105)	2026

C6H7N302I2 HL (7181)
2,5-Diiodo-histidine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaN03	25°C	0.50M	C		K1=3.62 B(CdH-1L)=-3.83 B(CdH-1L2)=0.01 B(CdH-2L2)=-7.52	1994WCa (45138)	2027

C6H704P H2L CAS 701-64-4 (5866)
Phenyl phosphoric acid; C6H5O.PO(OH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaN03	25°C	0.10M	C		K1=2.38	1988MSa (45227)	2028

C6H8N2 L 2-Picolylamine CAS 29722-36-9 (502)
2-(Aminomethyl)pyridine; C5H4N.CH2NH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	EMF	NaN03	20°C	0.10M	U		K1=4.38 B2=8.30 K3=3.03	1971ANa (45335)	2029

Cd++	gl	KN03	25°C	0.50M	U		K1=4.76 B2=8.70 K3=2.59	1971GEa (45336)	2030
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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; H00C.CH(CH2.CH:CH2).COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KNO3	25°C	0.10M	C		K1=2.32	1975IPa (45462)	2040
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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
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Cd++	gl	NaClO4	25°C	0.10M	U		K1=2.68	19660Cb (45501)	2041
							K(Cd+HL)=1.30		

C6H8O4Se H2L (3691)
cis-Tetrahydroselenophene-2,5-dicarboxylic acid; C4H6Se(COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaClO4	25°C	0.10M	U		K1=2.7	1968SNa (45527)	2042
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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
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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		

$$K(2Cd+2HL+H)=4.67$$

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

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U		K1=2.71 K(Cd+HL)=1.76	1977CAd (45683)	2047

Cd++	gl	KNO3	25°C	0.05M	M		K1=3.90	1975DPb (45684)	2048
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C6H8O7 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).

C6H8O7 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 B3eff = 4.65	1991KMd (45957)	2051
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At pH=8

Cd++	vlt	NaNO3	25°C	1.0M	C		K1=2.92 B2= 4.20 B3=4.65	1991KMf (45958)	2052
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Method: differential pulse polarography.

Cd++	vlt	NaClO4	30°C	1.0M	C		K1=1.95 B2= 3.30	1988GMc (45959)	2053
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Method: polarography.

Cd++	gl	NaClO4	30°C	1.0M	U		K1=3.98	1988GMd (45960)	2054
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Cd++	gl	KNO3	25°C	0.10M	U	T H	K1=3.71 B2=5.3 B(CdHL)=7.86 B(CdH-1L)=-4.2	1986CRd (45961)	2055
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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 B3=4.47	1986JAa (45962)	2056
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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 NaCl04 25°C 2.0M C $K_1=2.67$ $B_2=4.46$ 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 $K_1=3.65$ 1979DAb (45966)2060
 $B(\text{CdH}_2\text{L})=11.22$
 $B(\text{CdHL})=7.80$
 $B(\text{CdH-1L})=-3.81$

Cd++ gl NaCl04 25°C 0.10M U M $K_1=3.75$ 1975RMa (45967)2061
 $B(\text{CdL}(\text{Cys}))=10.82$
 $K(\text{Cd+L+HPO}_4)=9.56$

Cd++ dis NaCl04 30°C 1.0M U $K_1=2.6?$ $B_2=3.6?$ 1965HSc (45968)2062

Cd++ gl NaCl04 20°C 0.10M U $K_1=3.75$ 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 $K_1=4.20$ 1964PCa (45970)2064
 $K(\text{CdL+OH})=5.0$

Cd++ vlt oth/un 20°C 0.10M U $K_1=4.22$ 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 $K_1=3.2$ 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 $K_1=3.98$ 1959LLa (45973)2067
 $K(\text{Cd+HL})=2.28$

Cd++ gl KNO3 25°C 2.0M U $K_1=3.38$ 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	KN03	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
Cd++	gl	NaN03	25°C	0.10M	M	K1=4.21	1999SSa (46342)2074

C6H9NO2S2			H2L			CAS 7250-31-9	(8861)
2-Carboxy-1-pyrrolidinecarbodithioic acid;							
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values
Cd++	vlt	oth/un	25°C	0.50M	C	B2=12.90	1976KNb (46348)2075
Medium: 0.50 M Na2S04, 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
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	NaN03	25°C	0.10M	M	K1=9.26	1996KSc (46620)2077
Cd++	gl	NaCl04	37°C	0.10M	U	K1=10.99	1992GHa (46621)2078
Method: coulometric titration							
Cd++	oth	NaCl04	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	NaCl04	25°C	0.10M	U	M	K1=10.00 B(CdL(Cys))=17.53 K(Cd+L+HPO4)=18.35 K(CdHPO4+L)=15.44		1975RMa (46626)2083
Cd++	gl	NaCl04	25°C	0.10M	U	M	K(Cd+HL)=3.25 K(CdL+HPO4)=8.35 K(Cd+L+HPO4)=11.60		1974RMb (46627)2084
Cd++	gl	NaCl04	25°C	0.10M	U	M	K(Cd+HL)=3.25 K(CdHL+Fulvate)=4.13 K(Cd+HL+Fulvate)=7.38		1974RMb (46628)2085
Cd++	nmr	oth/un	25°C	0.10M	U	M	K(CdL+en)=5.05 K(CdL+Gly)=2.93 K(CdL+A)=4.01		1973RBb (46629)2086
H2A=iminodiethanoic acid									
Cd++	gl	KNO3	25°C	0.10M	U	T M	K(CdL+Pro)=3.05 K(CdL+Gly)=3.05		1971ICa (46630)2087
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	K(CdL+A)=2.44		1971ICb (46631)2088
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	K(Cd(OH)L+H)=11.25 K(CdL+A)=2.50		1971ICc (46632)2089
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	K(CdL+Sar)=2.64 K(CdL+A)=2.70		1971IVb (46633)2090
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	KN03	20°C	0.10M	U		K1=10.0	B2=14.60	1964J0a (46637)2094
Method: paper electrophoresis.									
Cd++	dis	NaClO4	20°C	0.10M	U		B2=15.45		1963STc (46638)2095
Cd++	vlt	KN03	20°C	0.10M	U	T	K1=9.80		1956SGa (46639)2096
Cd++	vlt	KN03	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	KN03	25°C	1.0M	C	M		K1=5.40 B2= 9.76 B3=12.00 B(CdAL)=6.13 B(CdA2L)=10.42 B(CdAL2)=12.84	1997KKb (47464)2101	

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 B(CdH-1L2)=-1.51	1994WCa (47466)2103	
Cd++	EMF	NaCl	25°C	1.00M	C	I		K1=4.41 B2=7.89 B(CdHL)=10.48 B(CdH2L)=15.56 B(CdHL2)=15.51 B(CdH2L2)=21.74	1993BFa (47467)2104	

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	
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Medium: 70% v/v EtOH/H₂O, 0.1 M KNO₃. B(CdAL)=13.80, A=vitamin D₃

Cd++	gl	KNO ₃	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	NaClO ₄	25°C	0.20M	U		K1=5.50	B2=10.15	1992VBa (47471)2108
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Cd++	gl	KNO ₃	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	KNO ₃	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	KNO ₃	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	KNO ₃	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	KNO ₃	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	KNO ₃	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	KNO ₃	30°C	0.10M	M		K1=5.65	B2= 9.79	1978MSi (47479)2116
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Cd++	ISE	NaClO ₄	25°C	3.00M	C	T	K1=6.484	B2=11.105	1974WWa (47480)2117
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Cd++	gl	KCl	25°C	0.10M	U	T	K1=5.39	B2=9.66	1970MMF (47481)2118
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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

C6H10N2O4 H2L CAS 89601-09-2 (3102)
trans-Piperazine-2,3-dicarboxylic acid;

C6H10N2O5 H2L Gly-Asp CAS 4685-12-5 (282)
Glycyl-aspartic acid; H2N.CH2.CO.NH.CH(CH2.COOH).COOH

C6H10N2O5 H2L ADA CAS 26239-55-4 (2747)
N-(2-Acetamido)iminodiethanoic acid; H2N.CO.CH2.N(CH2.COOH)2

Cd++ gl KNO3 25°C 0.10M M M K1=6.34 1996AEa (47822)2132
Data for ternary complexes with dipicolinic acid

Cd++	ISE NaNO ₃	25°C	0.1M M	M	K ₁ =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	

Cd++ g1 KCl 20°C 0.10M U K1=7.08 B2=10.68 1955SAa (47825)2135

 C6H10N2O6P2 H4L (6893)

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.10M	U			K1=10.27 K(Cd+HL)=9.01 K(Cd+H2L)=5.57	1990GKa	(47869)2136

 C6H10N8O L (8205)
 Bis(5-tetrazolyethylene)oxide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaNO3	20°C	0.1M	U		K1=3.55	1979ESa (47914)	2137
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C6H10N8S L (8206)
 Bis(5-tetrazolyethane)sulphide;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaNO3	20°C	0.1M	U		K1=4.18	1979ESa (47919)	2138
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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
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Cd++	ISE	KNO3	25°C	0.10M	C		K1=0.51	1972FGb (47956)	2139
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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
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Cd++	ISE	KNO3	25°C	0.10M	C		K1=0.70	1972FGb (47959)	2140
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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
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Cd++	gl	diox/w	25°C	50%	C		K1=2.58	1978SPa (47974)	2141
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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
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Cd++	gl	NaClO4	25°C	0.10M	U		K1=1.45 B2=2.38	1967PRb (47983)	2142
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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
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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'-Thiodipropanic 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 K(Cd+HL)=1.77	1975LPa (48171)2151	

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

C6H10O4S2 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

C6H10O4S2 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.

C6H10O4S2 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

C6H10O4Se H2L CAS 80030-00-8 (987)

2,2'-Selenodipropionic 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

C6H10O4Se H2L CAS 2168-88-9 (982)

3,3'-Selenodipropanic acid; $\text{HOOC.CH}_2.\text{CH}_2.\text{Se.CH}_2.\text{CH}_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KN03	25°C	0.10M	C		K1=2.07 K(Cd+HL)=1.52	1975LPa (48292)	2161
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C6H1004Te		H2L					CAS 2168-91-4	(983)	
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3,3'-Tellurodipropanoic acid; $\text{HOOC.CH}_2.\text{CH}_2.\text{Te.CH}_2.\text{CH}_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KN03	25°C	0.10M	C		K1=2.85 K(Cd+HL)=2.4	1975LPa (48303)	2162
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C6H1005		H2L					CAS 5961-83-1	(981)	
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3,3'-Oxodipropionic acid; $\text{HOOC.CH}_2.\text{CH}_2.\text{O.CH}_2.\text{CH}_2.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KN03	25°C	0.10M	C		K1=1.66	1975LPa (48312)	2163
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C6H1007		HL		Galacturonic			CAS 685-73-4	(290)	
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D-Galacturonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	cal	oth/un	22°C	var	C	H	K1=1.54	1999MGa (48383)	2164
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DH(K1)=1.9 kJ mol⁻¹, DS(K1)=36 J K⁻¹ mol⁻¹

Cd++	gl	NaCl04	25°C	1.00M	U		K1=1.52	1990DGb (48384)	2165
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Cd++	gl	NaCl04	25°C	1.00M	C		K1=1.15	1977Mca (48385)	2166
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C6H1007		HL		Glucuronic acid			CAS 6556-12-3	(599)	
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D-Glucuronic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	R4N.X	25°C	0	M	I	K1=2.52 B2=4.2	1996GMb (48413)	2167
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At I=0.16 M: K1=2.16, B2=3.7

Cd++	gl	NaCl04	25°C	1.00M	C		K1=1.10	1977Mca (48414)	2168
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C6H1008		H2L		Mucic acid			CAS 526-99-8	(3650)	
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2,3,4,5-Tetrahydroxyhexanedioic acid, Galactaric acid; $\text{HOOC}.\text{(CHOH)}_4.\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaNO3	25°C	0.05M	C		K1=4.51 B2= 8.20	2002SFa (48434)	2169
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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; H00C.(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'-Iminodipropionic 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)
 Iminodipropionic 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
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Cd++	oth	KNO3	20°C	0.10M	U		K1=8.6 B2=13.80	1965JMa (48673)	2179
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Method: electrophoresis

Cd++	vlt	KNO3	25°C	0.10M	U		K1=7.41 B2=13.75	1965VFa (48674)	2180
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Cd++	gl	KNO3	20°C	0.10M	U		K1=7.52 B2=12.76	1955SAa (48675)	2181
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Cd++	gl	KCl	20°C	0.10M	U		K1=7.12 B2=12.24	1952CCa (48676)	2182
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C6H11NO5 H2L (7174)
N-Carboxymethylthreonine; H00CCH2NHCH(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

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
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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-tetrazolyl)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

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
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Cd++	gl	NaCl	37°C	0.15M	U	M		K1=8.22 B(CdH-1L(EDDA))=1.07 K(CdH-1L(Penicillamine))=5.41 B(CdH-1L(EDTA))=24.47	1982HFa (49362)	2208
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C6H12N₄ L Methenamine CAS 100-97-0 (619)
Hexamethylenetetramine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	ISE	NaNO ₃	25°C	0.20M	U	I		B2=0.11	1975BNa (49384)	2209
Medium: LiNO ₃ . 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
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Cd++	ISE	KNO ₃	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
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Cd++	ISE	KNO ₃	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
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Cd++	gl	KNO ₃	25°C	0.15M	M			K1=5.89 B2=12.42 B3=16.64	1987GFa (49524)	2212
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C6H12O₆ L D-Glucose CAS 492-62-6 (1560)
D-Glucose

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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	NaNO ₃	25°C	0.10M	C		K ₁ =2.3 B(CdH-2L)=-15.7	1996ESa (49685)	2214

Cd++	ISE	KNO ₃	25°C	0.50M	C		B(Cd ₂ H-4L ₂)=-25.9	1985BSb (49686)	2215
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By combined pM, pH measurements.

Cd++	ISE	NaClO ₄	25°C	1.00M	U		K ₁ =1.15 B ₂ =2.08	1981TVa (49687)	2216
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Determined using a CdHg electrode and a glass electrode

Cd++	vlt	NaClO ₄	20°C	1.5M	C	M	K ₁ =0.70 B ₂ = 1.59 B ₃ =2.30 B(CdLA)=1.52 B(CdLA ₂)=3.26 B(CdL ₂ A)=2.52	1980AJa (49688)	2217
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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	NaNO ₃	25°C	1.00M	U		K ₁ =1.7 B(CdL(OH))=7.4	1979BRa (49689)	2218
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Cd++	vlt	NaClO ₄	25°C	1.50M	U	M	K ₁ =0.70 B ₂ =1.48 B ₃ =2.30 B(CdLA)=1.88 B(CdL ₂ A)=2.40 B(CdLA ₂)=2.95	1979JAb (49690)	2219
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H₂A=citraconic acid

Cd++	vlt	NaNO ₃	25°C	1.0M	U		B ₂ =2.09	1963ZGa (49691)	2220
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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	KNO ₃	35°C	0.10M	C	M	K ₁ =3.67 B ₂ = 6.90	1998ZWa (49885)	2221

Data for ternary complexes with 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime

Cd++	gl	NaClO ₄	25°C	0.20M	U	T M	K ₁ =3.91 B ₂ = 7.28 K(CdA+L)=3.91	1993PPa (49886)	2222
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A is 2,2'-bipyridylamine. Also data for 35 and 45 C.

Cd++	gl	NaClO ₄	27°C	0.20M	U	M	K ₁ =3.91 B ₂ = 7.28 K(CdA+L)=3.96	1988PPc (49887)	2223
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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-Aminohexanoic 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

kJ mol⁻¹, DS(K1)=117 J K⁻¹ mol⁻¹; DH(B2)=21.2, DS(B2)=135.

Cd++ gl oth/un 25°C 3.00M U K1=3.74 B2=7.03 1982M0b (50159)2246

Cd++ gl NaCl04 20°C 0.10M U T H K1=5.49 B2= 9.48 1981SDb (50160)2247
Data for 20-40 C. DH(B2)=-83.8 kJ mol⁻¹, DS(B2)=-105.6 J K⁻¹ mol⁻¹.

Cd++ gl KNO3 30°C 0.10M U M 1980MSb (50161)2248
K(Cd(His)+L)=3.33

Cd++ gl KNO3 25°C 0.10M C T K1=3.86 B2=7.33 1975IPb (50162)2249

Cd++ gl oth/un 18°C .005M U B2=7.3 1953PEa (50163)2250
Medium: 0.005 CdSO4.

Cd++ gl oth/un 20°C 0.00 U B2=6.9 1952PEa (50164)2251
Medium: 0.0005 CdSO4.

Cd++ gl oth/un 20°C 0.01M U B2=8.7 1950ALa (50165)2252

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

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

Cd++ gl KNO3 25°C 0.10M U K1=4.68 B2=9.22 1964LMa (50261)2253

C6H13NO3 HL CAS 4383-88-4 (1895)
2-Aminooxyhexanoic acid;CH3.CH2.CH2.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=1.52 1985WTa (50277)2254

C6H13NO4 HL Bicine CAS 150-25-4 (2124)
N,N-Bis(2-hydroxyethyl)glycine; (HO.CH2.CH2)2N.CH2.COOH

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

Cd++ gl KNO3 30°C 0.10M U M K1=4.63 1984GHb (50324)2255
K(Cd(phen)+L)=4.15

Cd++ vlt NaCl04 35°C 0.02M U M K1=5.30 B2=8.01 1979JKa (50325)2256
B3=9.66
B(CdL(Gly))=8.36
B(CdL(Gly)2)=10.17
B(CdL2(Gly))=10.04

Cd++ vlt NaCl04 25°C 0.20M U K1=5.5 B2=8.6 1971NTa (50326)2257
B3=10.1

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 1983PSe (50567)2268
B3=5.05

Method: polarography. Medium: LiClO4, pH 6.4

Cd++ vlt KNO3 23°C 0.20M U T H K1=4.0 B2=7.0 1979SSb (50568)2269
B3=8.94

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

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

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 1986RVa (50641)2273
B3=8.11

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)
 Aminoiminomethylcarbamidic acid, 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 K3=1.54 K4=1.01	1969MPd (51148)	2298

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
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Cd++	vlt	NaClO4	?	1.0M	U	M		K1=2.3 B2=5.0 B(CdL2(OH))=8 B(CdL2(OH)2)=11 B(CdL(OH)3)=11.7 B(CdL2(OH)3)=13.1	1963CAC (51277)	2301
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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 B3=5.21	1960MPa (51278)	2302
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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 NaCl04

C6H16N04P HL CAS 387383-55-3 (8776)
N,N,N-Trimethyl-2-(phosphonomethoxy)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 Tetrameen 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
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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
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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
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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 2003L Ba (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 1999L Ba (51892)2326

B(CdHL)=15.44
B(CdHL2)=20.96

Cd++ gl KNO3 40°C 1.00M C T H K1=6.61 1974D Fa (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 1973A Hc (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 2001C Gd (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 2001D Sa (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 2001D Sa (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 2001D Sa (51964)2332

$$K(\text{CdHL}+\text{H})=5.0$$
$$K(\text{CdL}+\text{OH})=1.8$$

1,4,7,10-Tetraazadecane; $\text{H}_2\text{N} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{NH} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{NH} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{NH}_2$

$$K(\text{Cd}+\text{HL})=7.1$$

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	NaCl04	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
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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	KN03	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	KN03	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
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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	KN03	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	KN03	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
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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

C602Cl4	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
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Cd++ gl diox/w 35°C 50% U K1=2.74 B2=4.87 1956HSc (52596)2360

C7H5NO4 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

C7H5NO4 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

C7H5NO4 H2L Dipicolinic aci CAS 449-83-2 (418)
2,6-Pyridinedicarboxylic acid; C5H3N.(COOH)2

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

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(try)+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 K(Cd(bpy)+L)=5.69	1980KSa (53658)	2380
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.CO0H									
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 B3=1.64 B4=1.87	1966JGa (53812)	2384
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.CO0H									
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 NaCl04 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
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Cd++	gl	oth/un	20°C	0.10M	U			K1=4.65	1958PEe (54918)	2400
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Cd++	sp	oth/un	15°C	0.25M	U			K1=16.68 B2=29.08	1958RCa (54919)	2401
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Cd++	vlt	oth/un	25°C	1.0M	U			B2=1.97	1957GLc (54920)	2402
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C7H7N L CAS 100-69-6 (299)
2-Vinylpyridine; C5H4N.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	KNO3	25°C	0.10M	U			K1=1.1	1974ILa (55115)	2403
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C7H7N L CAS 100-43-6 (294)
4-Vinylpyridine; C5H4N.CH:CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	KNO3	25°C	0.10M	U			K1=1.6	1974ILa (55123)	2404
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C7H7NO L CAS 350-03-8 (1479)
3-Acetylpyridine; C5H4N.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	KNO3	25°C	0.50M	U			K1=0.89 B2=1.83	1986BLa (55138)	2405
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C7H7NO L CAS 1122-54-9 (494)
4-Acetylpyridine; C5H4N.CO.CH3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	dis	non-aq	25°C	100%	U				1989STa (55145)	2406
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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

$$R = N(Bu)_4$$

2-Aminobenzoic acid, Anthranilic acid; $\text{H}_2\text{N.C}_6\text{H}_4.\text{COOH}$

$$B(CdAL) = 10.29$$
$$K_{SO} = -8.39$$

2-Hydroxybenzaldehyde oxime; HO.C6H4.CH:N.OH

$$K(\text{Cd}+\text{HL}) < 4.4$$

2-Pyridylethanoic acid; $C_5H_4N.CH_2.CO_2H$

4-Methyl-2-nitrosophenol; CH₃.C₆H₃(N:O).OH

Medium: 50% dioxan, 0.1 M KNO₃

6-Methylpyridine-2-carboxylic acid; CH₃.C₅H₃N.CO₂H

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 K(Cd(nta)+L)=3.09 K(Cd(ida)+L)=3.46 K(Cd(ada)+L)=3.38	1996KSc (55486)	2417

H2ada: N-(2-acetamido)iminodiethanoic acid.

Cd++	gl	diox/w	30°C	50%	U		K1=10.02 B2=19.17	1994JBb (55487)	2418
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Medium: 50% v/v dioxane/H2O, 0.10 M NaClO4.

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 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	1996KSc (55582)	2420

H2ada: N-(2-acetamido)iminodiethanoic acid.

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.COOH

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
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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
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Cd++	dis	non-aq	25°C	100%	U		1989STa (56226)	2443	
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$K(\text{CdCl}_2\text{A}_2 + \text{L} = \text{CdCl}_2\text{AL} + \text{A}) = 0.36$
 $K(\text{CdCl}_2\text{AL} + \text{L} = \text{CdCl}_2\text{L}_2 + \text{A}) = -2.07$
 $K(\text{CdBr}_2\text{A}_2 + \text{L} = \text{CdBr}_2\text{AL} + \text{A}) = -0.20$
 $K(\text{CdBr}_2\text{AL} + \text{L} = \text{CdBr}_2\text{L}_2 + \text{A}) = -1.79$

Medium: 1,2-dichloroethane. A=tri-n-octylphosphine oxide

Cd++	dis	NaCl	25°C	0.10M	U		1984SMa (56227)	2444	
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$K(\text{R}_2\text{CdCl}_4 + \text{L} = \text{RCdCl}_3\text{L} + \text{RCl}) = -1.00$
 $K(\text{RCdCl}_3\text{L} + \text{L} = \text{CdCl}_2\text{L}_2 + \text{RCl}) = -4.07$

R = N(Bu)₄

C7H9N	L	2-Methylaniline	CAS 95-53-4	(3133)
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2-Methylaminobenzene (o-Toluidine); CH₃.C₆H₄.NH₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	ISE	KN03	25°C	0.30M	U		K1=-0.10	1964NAe (56238)	2445
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C7H9N	L	3,4-Lutidine	CAS 583-58-4	(2056)
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3,4-Dimethylpyridine; C₅H₃N.(CH₃)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KN03	25°C	0.10M	C	I	K1=1.84 B2=2.32 B3=3.72	1979EBa (56253)	2446
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In 0.5 M KN03, K1=1.79, B2=2.91, B3=3.62

Cd++	gl	KN03	25°C	0.50M	U		K1=1.65 B2=2.91 B3=3.77 B4=4.25	1979LRa (56254)	2447
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Cd++	gl	alc/w	30°C	25%	U		K1=1.60 B2=2.65 B3=3.31	1975VUa (56255)	2448
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C7H9N	L	3,5-Lutidine	(323)
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3,5-Dimethylpyridine; C₅H₃N.(CH₃)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	NaN03	25°C	0.50M	C		K1=1.74	2002KSb (56278)	2449
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Cd++	gl	KN03	25°C	0.10M	C	I	K1=1.56 B2=2.33	1979EBa (56279)	2450
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In 0.5 M KN03, K1=1.78, B2=2.22

Cd++	gl	alc/w	30°C	25%	U		K1=1.51 B2=2.35	1975VUa (56280)	2451
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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 B3=3.47 B4=3.87	1981LRa	(56295)2452

Cd++	gl	KNO3	25°C	0.10M	C	I	K1=1.44 B2=2.38	1979EBa	(56296)2453
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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 B3=3.40	1979EBa	(56321)2454

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 B3=3.53 B4=3.95	1979LRa	(56322)2455
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Cd++	gl	alc/w	30°C	25%	U		K1=1.48 B3=2.83	1975VUa	(56323)2456
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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	KNO ₃	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	KNO ₃	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	KNO ₃	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	KNO ₃	25°C	0.10M	U		K1=6.9 B2=11.0	1963ANa (56826)	2477
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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	KNO ₃	25°C	0.10M	U		K1=8.26	1973KUb (56869)	2478
Cd++	vlt	KNO ₃	25°C	0.10M	U		K1=8.37 K(Cd+HL)=2.10	1973KUb (56870)	2479

K(Cd+HL) by glass electrode

Cd++	gl	KNO ₃	25°C	0.10M	U		K1=8.24 K(Cd+HL)=2.15	1967UKa (56871)	2480
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Cd++	gl	KCl	30°C	0.10M	U		K1=7.5	1953CMA (56872)	2481
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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	KNO ₃	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
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Cd++	gl	KCl	25°C	0.10M	U			K1=8.54 K(Cd+HL)=5.19 K(Cd+H2L)=3.34	1988KPa (56927)	2483
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C7H11N3 L CAS 63763-86-0 (6062)
 2,6-Di(aminomethyl)pyridine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	NaNO3	20°C	1M	C			K1=7.60 B2=14.21	1992CPb (56956)	2484
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C7H11N3O2 L CAS 7389-87-9 (3162)
 Histidine methyl ester

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	EMF	oth/un	25°C	?	U			K1=4.6 B2=8.1	1966PAa (56997)	2485
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Cd++	gl	KNO3	25°C	0.16M	U			K1=3.98 B2=6.79 K3=1	1965CMA (56998)	2486
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Cd++	vlt	KNO3	45°C	0.10M	U	T H		B2=7.10	1964ARa (56999)	2487
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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
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Cd++	gl	KNO3	25°C	0.50M	U			K1=2.18	1982LKb (57045)	2488
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C7H12N2O2 HL (6181)
 2-(N-2-Pyrrolidimino)propanoic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	NaClO4	25°C	0.10M	U	TIH		B2=9.28	1988GRb (57072)	2489
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35 C: B2=9.35, 45 C: 9.45. DH(B2)=15.4 kJ mol⁻¹, DS=229.1 J K⁻¹ mol⁻¹

C7H12N2O3 HL Gly-Pro CAS 704-15-4 (257)
 Glycyl-proline; H2N.CH2.CO.NC4H7.COOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	KCl	20°C	0.20M	U			K1=3.25 B2=5.72	1982RRd (57114)	2490
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C7H12N2O3	HL	Pro-Gly	CAS 2578-97-6	(262)
Prolyl-glycine; C4H8N.CO.NH.CH2.CO0H				

C7H12N2O5 H2L Gly-Glu CAS 7412-78-4 (280)
Glycyl-glutamic acid; H2N.CH2.CO.NH.CH(CH2.CH2.COOH).COOH

Cd++ g1 KNO3 20°C 0.10M U K1=7.08 B2=10.68 1980BBc (57171)2493

C7H12N3O5P H2L PMEC CAS 117087-39-5 (8366)
1-[2-(Phosphonomethoxy)ethyl]cytosine;

C7H12O4 HL CAS 96740-23-7 (2249)
1,5-Dimethoxy-pent-2,4-dione, CH₃.O.CH₂.CO.CH₂.CO.CH₂.O.CH₃

C7H12O4 H2L Pimelic acid CAS 111-16-0 (985)
1,7-Heptanedioic acid; HOOC.(CH2)5.COOH

C7H12O4 H2L CAS 534-59-8 (480)
Butylpropanedioic acid (Butylmalonic acid); $\text{HOOC} \cdot \text{CH}(\text{C}_4\text{H}_9) \cdot \text{COOH}$

C7H12O4 H2L CAS 510-20-3 (482)
Diethylpropanedioic acid (Diethylmalonic acid); $\text{HOOC.C(C}_2\text{H}_5)_2\text{COOH}$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ g1 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
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Cd++ g1 KN03 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
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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

C7H13N03S 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
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Cd++ g1 KN03 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++ g1 KN03 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
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Cd++ g1 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++	gl	diox/w	25°C	50%	U T H		K1=5.85	19760Ma (57534)	2505

C7H13N04S		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++	gl	KNO3	20°C	0.10M	U		K1=7.89 B2=13.27	1955SAa (57542)	2506

C7H13N05		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++	gl	KNO3	20°C	0.10M	U		K1=7.53 B2=13.18	1955SAa (57570)	2507

C7H13N05		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++	gl	KCl	30°C	0.10M	U		K1=6.2 B2=10.9	1954Cma (57586)	2508

C7H13N05		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

C7H13N06		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++	gl	KNO3	20°C	0.10M	U		K1=7.26 B2=12.17	1980MRc (57605)	2510

C7H14N203		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++	gl	KNO3	25°C	0.20M	C		K1=3.49 B2=6.79	1990KUa (57710)	2511

C7H14N203S		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
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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; HOOCH(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; HOOCH(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 K(Cd+HL)=4.19	1991TMb (58020)	2519

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		B(CdAH2L)=26.74 K(CdA+H2L)=3.53	2003LBa (58306)	2526

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
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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 B(CdHL)=6.90 B(CdH-2L2)=-11.3	1996Vda (58929)	2534

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 B3=3.25 B(Cd(imidazole)L2)=4.55 B(Cd(imidazole)L)=3.95 B(Cd(imidazole)2L)=6.10	1992KIa (58930)	2535
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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 B(CdHL)=5.36 B(CdHL2)=6.96	19780Sa (58931)	2536
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Cd++	gl	oth/un	25°C	0.10M	U		K1=2.5	1960YYa (58932)	2537
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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 B(CdHL)=4.98	19780Sa (59047)	2538

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

B3=11.47

B4=13.34

Cd++ EMF KNO3 25°C 0.10M U K1=4.70 B2=8.16 1967EHc (59180)2541
B3=10.74

C8H8N02F3S HL CAS 50790-31-3 (211)
Trifluoromethanesulfonamidomethylbenzene; C6H5.CH2.S(:O)2.NH.CF3

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

Cd++ gl diox/w 30°C 45% M K1=4.9(6) B2=6.3(3) 1984MYa (59289)2542

C8H8N2 L CAS 615-15-6 (8241)
2-Methylbenzimidazole;

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

Cd++ gl KNO3 25°C 0.50M U K1=1.43 B2= 2.65 1990LGb (59300)2543

C8H8N2O6S H2L CAS 15054-42-9 (3843)
N-(2'-Nitrobenzenesulfonyl)aminoethanoic acid; O2N.C6H4.SO2.NH.CH2.COOH

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

Cd++ gl NaNO3 25°C 0.10M C M K1=6.24 B2=10.45 2000SIa (59372)2544

B(CdHL)=12.5

B(CdH-1L)=-2.95

B(CdHL(bpy))=18.12

B(CdH2L2(bpy))=30.9

B(CdL(bpy))=11.73, B(CdHL(bpy)2)=20.97, B(CdH2L2(bpy)2)=34.88,

B(CdL(bpy)2)=15.04.

Cd++ gl alc/w 30°C 50% U 1967GMb (59373)2545

K(Cd+H2L=CdHL+H)=2.14

K(CdHL+H2L=Cd(HL)2+H)=1.46

K(CdHL2+H)=6.57

K(CdL2+H)=8.57

Medium: 50% EtOH

C8H8N2O6S H2L CAS 1215-64-1 (3844)
N-(3'-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 (59380)2546

K(Cd+H2L=CdHL+H)=2.25

K(CdHL+H2L=Cd(HL)2+H)=1.71

K(CdHL2+H)=7.17

K(CdL2+H)=9.19

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	KN03	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	KN03	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.CO2H

 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).CO2H

 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; C6H5O.CH2.CO2H

 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.CH2CO2H

 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

C8H9NO2		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

C8H9NO2		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

C8H9NO2		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	KN03	30°C	0.50M	C		K1=4.04 B2= 7.51	1983BNa (60329)	2569
Method: polarography.									

Cd++	gl	NaClO4	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	NaClO4	30°C	0.10M	U	M	K1=4.20 B2=7.20	1980RSb (60331)	2571
K(Cd(phen)+L)=3.98									

Cd++	gl	KN03	30°C	0.10M	U	M	K1=4.20	1980RSc (60332)	2572
K(Cd(His)+L)=3.56									

Cd++	gl	NaClO4	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.									

C8H9NO2		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	KN03	25°C	0.30M	U		K1=0.60	1967NAC (60363)	2574

C8H9NO2S		HL					CAS 104-18-7	(4575)	
(4-Aminophenylthio)ethanoic acid; H ₂ N.C ₆ H ₄ .S.CH ₂ .COOH									

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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;

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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;

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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;

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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
1971MAa (60485)2578
Medium: 50% dioxan, 0.01 M NaClO4
*****
C8H9NO4S   H2L                      CAS 7717-21-7 (3846)
N-(Phenylsulfonyl)aminoethanoic acid; C6H5SO2NHCH2COOH

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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

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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

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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

C8H9N3O5 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

C8H9N3O5 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 K(Cd+HL)=4.19	1972FVa (60608)	2585

Cd++	gl	oth/un	20°C	0.0	U			K2=6.7	1948SBa (60609)	2586
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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			K(Cd+HL)=2.71 K(Cd+2HL)=4.98 K(Cd(HL)2+OH)=10.80	1970GSb (60714)	2587

Cd++	vlt	oth/un	25°C	?	U			K(Cd+20H+HL)=10.8	1970GSb (60715)	2588
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C8H10N2O2 HL (3227)
 N-(2'-Pyridylmethyl)glycine; C5H4N.CH2.NH.CH2.COOH

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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;
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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)
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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
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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
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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
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C8H10O9 H4L CAS 137172-86-2 (6612)
SS-Oxydisuccinic acid; O(CH(COOH)CH₂.COOH)₂

$$K(\text{Cd}+\text{H}_2\text{L})=2.20, \quad K(\text{Cd}+\text{H}_3\text{L})=1.85$$

C8H10O9 H4L CAS 84852-72-2 (6611)
meso-Oxydisuccinic acid; $O(CH(COOH)CH_2.COOH)_2$

$$K(\text{Cd}+\text{H}_2\text{L})=2.28, \quad K(\text{Cd}+\text{H}_3\text{L})=1.80$$

C8H10O10 H4L (5894)
1-Hydroxy-3-oxapentane-1,2,4,5-tetracarboxylic acid;
HO.CH(COOH).CH(COOH).O.CH(COOH).CH2(COOH)

C8H11N L CAS 69376-33-6 (542)
2,4,6-Trimethylpyridine; C5H2N.(CH3)3

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	NaCl04	25°C	1.0M	C			1997GCa (61068)	2606
K(Cd+H2L=CdHL+H)=-6.32									

Ligand defined as H₂L. $K(\text{CdL}=\text{CdH}-\text{L}+\text{H})=-9.58$, $K(\text{CdHL}=\text{CdL}+\text{H})=-7.53$, $K(\text{CdL}_2=\text{CdH}-\text{L}_2+\text{H})=-9.5$, $K(\text{CdL}+\text{H}_2\text{L}=\text{CdL}_2+2\text{H})=-16.8$

C8H11NO3 HL Vitamin B6 CAS 65-23-6 (254)
5-Hydroxy-6-methyl-3,4-pyridinedimethanol, Pyridoxine;

Cd++ vlt KN03 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.

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

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
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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

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									
Cd++	nmr	oth/un	25°C	0.80M	U		K1=2.71 K(Cd+HL)=1.14	1972RLb (62017)	2637
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									
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									
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;									
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									
Cd++	gl	KNO3	25°C	0.10M	C		K1=6.98 B2=12.63	1975IPa (62188)	2643
C8H15NO5		H2L					(3234)		
N-(2-Hydroxyethyl)iminodipropionic 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	NaCl04	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	NaCl04	25°C	0.20M	M	M	K1=3.005 B2= 5.56 B(Cd(Ala)L)=7.368 B(Cd(Phe)L)=7.221 B(Cd(Tyr)L)=7.268 B(Cd(Trp)L)=7.425	1994VBb (62378)	2647
B(Cd(His)L)=8.930.									
Cd++	gl	KCl	20°C	0.20M	U		K1=2.85 B2=5.06	1982RRd (62379)	2648
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
Cd++	gl	oth/un	25°C	0.01M	U		K1=2.47	1959DLb (62426)	2651
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); (H00CCH2CH2NHCH2.)2									

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

Cd++	gl	KNO3	25°C	0.10M	U	M		1970DNa (62492)	2655
							K(CdL+en)=4.15		

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-tetraazolyl)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 B(CdH-1L)=-1.1	1985NSb (62840)	2670

 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	1992LJb (62965)	2671

 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 K(Cd(ATP)+L)=1.14	1980SAb (63050)	2672

 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 B(CdH-1L)=0.3 K(CdL+OH)=3.43	1991ACa (63131)	2674

Cd++	gl	NaNO3	25°C	0.10M	U		K1=10.78	1988HSb (63132)	2675
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Cd++	gl	NaNO3	25°C	0.10M	U		K1=10.78	1986TSa (63133)	2676
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 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
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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
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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
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phosphate buffer.

Cd++	gl	KNO3	25°C	0.10M	U		K1=14.0	1958RHa (63458)	2691
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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 NaCl04									

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 NaCl04									

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 NaCl04									

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 NaCl04									

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 NaCl04									

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

C9H6N04IS 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		1982RBb (63764)	2700

B3=14.8

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
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K1=6.70 by solubility

Cd++	gl	KCl	25°C	0.10M	M	I M	K1=5.58 B2=10.57	1977MLb (63766)	2702
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Cd++	EMF	oth/un	25°C	0.10M	U		K1=6.28 B2=12.18	1968KBa (63767)	2703
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Cd++	ix	oth/un	25°C	0.10M	U		K1=5.70 B2=11.18	1968KBa (63768)	2704
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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	1979AOb (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 B(CdHL)=5.87 B(Cd2L2)=5.12	1979AOb (63990)	2708

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 B(CdHL)=5.47	1979AOb (63999)	2709

C9H7N L CAS 91-22-5 (1538)
Quinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	ISE	KN03	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
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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
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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
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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;

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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;
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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;
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Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       vlt KNO3  RT  0.10M C I                      1982RBb (64509)2719
B3=16.3
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.
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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;
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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;
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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;
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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; H00C.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; H00C.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; H0.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	KN03	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
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Cd++ ISE KNO3 25°C 0.10M C K1=0.79 1972FGb (65507)2754
By competition with Ag+ using Ag ISE

C9H1003Se 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

C9H1004 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	NaCl04	25°C	0.20M	M	K1=4.50		1996VBa (65895)2762
Cd++	gl	NaCl04	25°C	0.20M	M	K1=4.505	B2= 8.10	1994VBb (65896)2763
Cd++	gl	NaCl04	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	NaCl04	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	NaCl04	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	NaCl04	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

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					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'-Aminoethylantronic acid; HOOCC6H4.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)

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)

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 1997KVa (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 1997KVa (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,

Cd++ gl NaNO3 20°C 0.50M U B(CdHL)=16.45 1974GSa (66850)2806

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.10M	U			K1=8.81 B2=11.80	1968KTd	(66877)2807

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.10M	C			K1=4.93 B2= 8.50	2003SBb	(66921)2808

B(CdHL)=11.31
B(CdH-2L2)=-9.28

C9H13N2O8PS H3L CAS 4145-46-4 (9047)
4-Thiouridine 5'-monophosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.10M	C			K1=4.76 B2= 8.49	2003SBb	(66924)2809

 $B(\text{CdHL}) = 11.06$
 $B(\text{CdH-2L2}) = -9.06$

C9H13N2O9P H3L UMP-5 CAS 58-97-9 (2948)
Uridine-5'-monophosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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++ gl R4N.X 25°C 0.10M C T K1=2.51 1991SMa (66956)2811
K(Cd:II) = 2.51

IUPAC evaluation

Cd₁₁ g1 NaNO₃ 25°C 0.10M C 1088MSD (66057)2812

Cu++ g1 NaNO₃ 25 °C 0.10M C 1988MSd (66957)Z812
K(Cd+HL)=2.38

CGH13N3O5 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
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Media	Media	Medium	Temp	Conc	Cell	Plugs	Eg	R	Values	Reference	Expend

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(CdHL)=-6.0

C9H15N03S H2L Captopril CAS 62571-86-2 (5773)

1-(2(S)-3-Mercapto-2-methyl-1-oxopropanyl)-L-proline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	37°C	0.15M	U			K1=6.26 B2=13.13 B3=17.47 B(Cd2L3)=23.33 B(Cd4L4)=35.90 B(CdH-1L2)=3.45	1985HSc (67390)	2825

C9H15N06 H3L (7177)

2-Aminopentanoic-N,N-diethanoic acid; C3H7C(COOH)N(CH2COOH)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KNO3	20°C	0.10M	U			K1=9.78	1974RMf (67400)	2826

C9H15N06 H3L CAS 817-11-8 (3271)

3,3',3''-Nitrilotripropionic acid; (HOOCH2CH2)3N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=3.4	1953CMa (67428)	2827

C9H15N06 H3L CAS 95482-53-4 (3270)

N-(2-Carboxyethyl)-3,3-iminodipropionic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	KCl	30°C	0.10M	U			K1=5.6	1953CMa (67439)	2828

C9H15N06S H3L DCMM CAS 72306-91-3 (8239)

Dicarboxymethyl-N,N-methionine acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.5M	U				1980MFC (67467)	2829

K(Cd+HL)=4.09

K(CdHL+HL)=3.40

Additional methods: conductivity, spectrophotometry

C9H15N2015P3 H5L UTP CAS 63-39-8 (407)

Uridine-5'-triphosphoric acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	U				1991LSa (67512)	2830

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

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	KN03	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 K(Cd+HL)=2.50 K(CdL+H)=4.66	1999SSa (67580)	2835

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
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Cd++ g1 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++ g1 R4N.X 25°C 0.10M U K1=2.05 1991LSa (67687)2838
B(CdHL)=3.15

Cd++ g1 R4N.X 25°C 0.10M C T K1=5.29 1991SMa (67688)2839
K(Cd+HL)=3.16

IUPAC evaluation

Cd++ g1 NaNO3 25°C 0.10M C K1=5.05 1987STb (67689)2840
K(Cd+HL)=3.15
K(CdL+H)=4.65

Cd++ g1 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

C9H17NO5 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++ g1 KCl 25°C 0.24M U K1=1.75 1980Fmd (67812)2842

C9H17NO6 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++ g1 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++ g1 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

[illegible]

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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 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;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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);									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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);									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	1.0M	U		K1=19.7	1984KMa (68303)	2863
K(Cd+HL)=13.9									

C9H24N4		L					CAS 129880-56-4	(1533)	
1,4,10,13-Tetraazatridecane; H2N.(CH2)2.NH.(CH2)5.NH.(CH2)2.NH2									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	1.00M	C	H	K1=8.95	1982ABc (68333)	2864
B(CdH2L)=23.05									
By calorimetry: DH1=-31.0 kJ mol-1, DS1=66.9									

C9H24N4		L					CAS 4963-47-7	(546)	
Tris-(3-aminopropyl)amine;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo

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
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Cd++	sp	oth/un	25°C	0.0	U		K1=3.12	1966MAg	(68876)2883
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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

C10H7N08S2 H3L CAS 26276-77-7 (4767)
1-Hydroxy-2-nitrosonaphthalene-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

C10H7N08S2	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 1961MAAd (68995)2893
K(Cd+HL=CdL+H)=-3.46
K(CdL+HL=CdL2+H)=-4.30

C10H7N08S2 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	1974SJB (69048)	2894

C10H7N08S2	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	1974SJB (69058)	2895

C10H7N302S	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. *****									
C10H7N303	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 B3=6.30	1990IOc (69468)	2902
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 B3=9.83	1990KKd (69469)	2903
Method: polarography. Medium pH 3-6.									
Cd++	vlt	NaNO3	25°C	0.10M	U	M	K1=5.1 B2=8.40 K3=2.36	1990KZa (69470)	2904
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 K3=2.36 B(CdL(Gly))=8.74 B(CdL(Gly)2)=11.01 B(CdL2(Gly))=11.15	1990TZa (69471)	2905
Cd++	cal	non-aq	25°C	100%	U	HM	K1=2.84 B2=5.17 B3=6.0	1989IOc (69472)	2906

B(CdLC1)=10.5
B(CdLC12)=15.6
B(CdLC13)=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 1984KRb (69477)2911
K(CdL+NTA)=9.72

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 1977MSd (69480)2914
K(CdL+His)=5.41

Cd++ cal non-aq 30°C 100% U M 1976AGa (69481)2915
K(CdI2+L)=ca. 3

Medium: MeCN

Cd++ cal non-aq 30°C 100% U H 1976AGc (69482)2916
K(CdA2+L)=2.38

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 1973BNb (69483)2917
B3=9.90

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 1973BNb (69484)2918
B3=9.58

Method: Cd/Hg. Medium: 0.2(LiNO3) in acetone. In 50%, B3=9.12; 75%, 3=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 B3=9.27	1967LUb (69486)2920

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 K3=2.7	1963ANg (69488)2922

Cd++	dis	KCl	25°C	0.10M	U		K1=4.12 B2=7.62 K3=2.60	1962IMa (69489)2923

Cd++	ISE	KNO3	25°C	0.05M	U		K1=4.26 B2=7.82 K3=2.66	1958CSa (69490)2924
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 B3=9.30	1958CSc (69491)2925
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 B3=10.28	1958CSc (69493)2927
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 K3=2.5	1956YSb (69494)2928

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		1974MJa (69763)2933	
							K(Cd(His)+L)=7.74		

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	
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 Dipyridylamine CAS 1202-34-2 (2428)
(2,2'-Dipyridyl)amine; C5H4N.NH.C5H4N

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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
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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
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Cd++	sp	diox/w	25°C	10%	U	T		K1=7.72	1973KSd (70355)	2957
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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-indolinylidene)dithiocarbazic acid methyl ester;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	alc/w	30°C	60%	M			K1=4.16 B2= 8.26	1996HTb (70376)	2958
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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
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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
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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
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Cd++	gl	diox/w	30°C	75%	U			B2=15.37	1976BRd (70445)	2961
------	----	--------	------	-----	---	--	--	----------	-----------------	------

C10H10N2 L CAS 26628-04-2 (3300)
8-Aminoquinaldine (8-Amino-2-methylquinoline)

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-----
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)
Desferri-ferrithiocin,
2-(3-Hydroxypyridin-2-yl)-4-methyl-4,5-dihydrothiazole-4-carboxylic acid;
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-----
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
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-----
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
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-----
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
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-----
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
-----

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-----
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
-----

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Medium: 40% v/v dioxane/water, 0.10 M NaNO₃.

phe: phenylalanine.

C10H10O6 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

C10H11NO₃S 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

C10H11NO₄ 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

C10H11NO₅ 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

C10H11NO₅S 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

C10H11O₄As 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

C10H11O4P 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	KN03	25°C	0.50M	U			K1=1.90 B2=3.69 B3=5.35 B4=6.90 B5=8.30	1983LWa (71154)	2979

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 K(Cd+HL)=3.14	1971WSd (71168)	2980

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 K(CdL+A)=7.40 K(CdL+en)=6.76 K(CdL+pro)=4.69 K(CdL+B)=4.10	1995RRe (71190)	2981

Medium: 40% v/v EtOH/H2O, 0.10 M KN03. 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		K(Cd(phe)+L)=3.88 K(CdA+L)=3.58	1995RRe (71191)	2982
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Medium: 40% v/v EtOH/H2O, 0.10 M KN03. H2A is salicylic acid.

C10H12N2O3S HL CAS 93100-65-3 (6199)
2-(2-Pyrrolideneamino)benzene sulfonic acid; C4H7N:N.C6H4.HS03

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
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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
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Cd++	gl	NaCl	25°C	0.50M	C		K1=2.20	1984RFb (71289)	2987
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C10H12N2O4 HL (6004)
 N-Benzyloxycarbonylglucyl hydroxamic acid; C6H5.CH2.O.CO.NH.CH2.CO.NHOH

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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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
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Cd++	gl	alc/w	25°C	50%	U		K1=5.17	1978GMc (71312)	2989
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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
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Cd++	gl	KCl	25°C	0.20M	C		K1=5.32 B2=10.55	1997KVb (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
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Cd++	nmr	NaNO3	27°C	0.10M	U			1981SHa (71379)	2991
------	-----	-------	------	-------	---	--	--	-----------------	------

Method: solvent extraction from 0.10 M NaNO₃ into CHCl₃

K is for: $pCd(aq) + 2pl(aq) = (Cd)pl_2p(org)$ K1 refers to 0.10 M NaNO_3

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-riboside;									

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
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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;

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-----
Metal      Mtd Medium Temp Conc Cal Flags Lg K values      Reference ExptNo
-----
Cd++       gl  NaNO3  25°C 0.10M C                      2001SBc (72749)3028
                                         K(Cd+HL)=5.62
                                         K(CdHL+H)=4.4
                                         K(Cd+H2L)=3.55

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*****
C10H15N5O9P2S      H3L                      CAS 59286-20-3 (8421)
Adenosine-5'-(1-thiodiphosphoric acid);
-----

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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;
-----

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```

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.

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-----
Cd++       nmr  KNO3   30°C 0.10M C                      K1=3.58      1984PHc (72927)3032
                                         K(Cd+HL)=1.74
                                         *K(CdL)=-4.82

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Method: 31P nmr.
*****
C10H16N2O3S        HL      Vitamin H          CAS 58-85-5 (410)
D-Biotin (Coenzyme R);
-----

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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
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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
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```

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, Sequestic 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 H2A=Iminodiethanoic acid; DH(CdA+L)=-7.9 kJ mol ⁻¹	1987VBd (73483)	3046
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 DH(CdL+OH)=-5.9 kJ mol ⁻¹	1985VKa (73485)	3048

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/H2 electrode.							
Cd++	ISE	KNO3	25°C	1.00M	U	K1=15.17 B(CdHL)=17.67 B(CdH2L)=19.24 B(Cd2L)=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	NaCl04	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	NaCl04	25°C	1.00M	C	K1=14.25 B(CdHL)=17.41 B(CdH2L)=19.71 B(CdH3L)=21.35	19770Ma (73495)3058
Cd amalgam electrode also used							
Cd++	gl	NaCl04	25°C	3.00M	C	K1=14.68 B(CdHL)=17.43	1976Cwa (73496)3059
Cd++	gl	NaCl04	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	1974DTa (73499)3062
DH(K1)=-45.1 kJ mol-1							

Cd++	oth	NaClO4	25°C	0.10M	U	I	1973HHb (73500)3063
I=1.0: $K(\text{Co}(\text{L})\text{Cl}+\text{Cd})=1.08$							$K(\text{Co}(\text{L})\text{Cl}+\text{Cd}=\text{Co}(\text{CdL})\text{Cl})=1.49$
Cd++	cal	KN03	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	KN03	20°C	0.10M	U		1965JMb (73504)3067
Method: electrophoresis							$K_1=17.5$
Cd++	vlt	KN03	25°C	0.20M	U		19650Ga (73505)3068
Cd++	cal	KN03	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	KN03	20°C	0.10M	U		1964ANa (73507)3070
							$K_1=16.46$ $K(\text{Cd}+\text{HL})=9.1$
Cd++	cal	KN03	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	KN03	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							$K_1=16.61$
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	KN03	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); ((HOOCC)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 1999SSa (74385)3083
K(Cd+HL)=4.15

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			K(Cd+HL)=5.82 K(CdHL+H)=4.60 K(Cd+H2L)=3.92	2001SBc (74870)3092	

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			K1=6.27 B(CdHL)=10.13 B(CdH2L)=14.05 B(Cd2L)=10.38	1992PPb (74941)3093	

Additional method: Cd(Hg) electrode

Cd++	gl	NaClO4	25°C	0.10M	C			K1=6.27 B(CdHL)=10.13 B(CdH2L)=14.05 B(Cd2HL)=10.38	1982PPc (74942)3094	
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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 K(Cd+HL)=1.47	1963IFa (74997)	3097

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
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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 K(Cd(NTA)+L)=5.28	1990KRa (75103)	3101
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Cd++	gl	KNO3	25°C	0.20M	C		K1=6.18 B(CdHL)=13.43	1990KUa (75104)	3102
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Cd++	gl	NaCl04	25°C	3.00M	C		K1=10.18 B2=15.35 B(CdHL)=17.02 B(CdHL2)=25.08 B(CdH2L2)=33.03 B(CdH-1L)=0.29	1976CWa (75105)	3103
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B(CdH-1L2)=3.17

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 K(CdL+H)=5.47 K(CdHL+H)=2.5 B(Cd2L)=30.74 K(Cd2L+H)=2.5	1995SMb (75810)	3123

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 K(Cd+HL)=5.6	1981MMA (75855)	3126

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 B(Cd2L)=11.99	1980SAa (76298)	3139
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 B(CdLOH)=-2.16	1985SLa (76371)	3141

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
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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-)2

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
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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
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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
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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
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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
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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					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 NaCl04 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										

C11H9N03	H2L	CAS	80690-05-7	(872)
3-Hydroxy-2-methyl-1,4-naphthoquinone monoxime;				

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	diox/w	30°C	0.10M	U			K1=4.39 B2=8.42 K3=4.57	1981KSa	(77360)3176

C11H9N04	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										

C11H9N30	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										

C11H9N302	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	KN03	25°C	0.10M	U			K1=8.246 B2=17.340	1982VJa	(77519)3180
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Cd++	sp	NaClO4	20°C	0.10M	U			K(Cd+HL)=10.5	1966HSb	(77520)3181
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Cd++	sp	oth/un	?	?	U			B2=21.6 K(Cd+HL)=11.5	1961HSb	(77521)3182
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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 K(Cd+HL)=2.1 K(Cd+CdL)=2.1	1970BAa (77656)	3183

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									

C11H10N3OClS		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 K(Cd+HL)=4.8 K(Cd+2HL)=10.1 K(CdHL2+H)=8.93 K(CdL2+H)=10.22	1964GHd (77704)	3189

C11H11NO		HL					CAS 39892-35-8	(3940)	

2-Ethyl-8-hydroxyquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	oth/un	25°C	0.0	U		K1=9.18 B2=17.39	1966KUc (77764)	3190
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C11H11NO6		H3L					CAS 1147-65-5 (425)		
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N-(2'-Carboxyphenyl)iminodiethanoic acid; H00C.C6H4.N(CH2.C00H)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KNO3	25°C	0.10M	U		K1=7.44	1967UKa (77813)	3191
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K(Cd+HL)=2.37

By polarography: K1=7.41

Cd++	sp	NaNO3	20°C	0.10M	U			1961DSa (77814)	3192
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K(?)=5.12

C11H11NS		HL					CAS 54128-50-6 (1033)		
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2,7-Dimethyl-8-mercaptoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	non-aq	25°C	100%	U		K1=9.2 B2=16.1	1984UBa (77857)	3193
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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
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Medium: DMF, 0.1 M LiClO4

C11H11NS2		HL					CAS 54487-80-8 (5694)		
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2-Methyl-(5-thiomethyl)-8-mercaptoquinoline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	EMF	non-aq	25°C	100%	U		K1=6.8 B2=12.20	1986UBa (77865)	3195
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Medium: dimethylformamide, LiClO4

C11H11N2O2Cl		HL					(9229)		
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3-[4-Chlorophenylazo]penta-2,4-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	alc/w	25°C	0.1M	U		K1=7.10	2004GMc (77885)	3196
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Medium: 0.1 mol/L KCl in 3:7 EtOH/H2O mixture

C11H11N2O2I		HL					(9227)		
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3-[4-Iodophenylazo]penta-2,4-dione;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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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	KN03	25°C	0.10M	C T HM	K1=3.81 K(CdL+bpy)=4.12 B(CdL(bpy))=8.33 K(CdL+phen)=4.33 B(CdL(phen))=10.07	B2= 6.97	1993Gwa (78165)	3206
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 B(CdL(Trp))=9.17 B(CdL(Phe))=9.32 B(CdL(Ala))=8.79	B2=8.66	1992VBa (78166)	3207
Cd++	gl	KN03	35°C	0.20M	U M	K1=3.66 K(CdA+L)=3.67	B2=7.08	1989RVa (78167)	3208
A=bis(imidazol-2-yl)methane									
Cd++	gl	KN03	25°C	0.20M	U M	K1=4.33 K(Cd(bpy)+L)=4.72		1988BSc (78168)	3209
Cd++	vlt	KN03	30°C	1.0M	C M	K1=4.40 B3=10.50 B(CuAL)=5.18 B(CuA2L)=5.59 B(CuAL2)=8.25	B2= 7.40	1986KCb (78169)	3210
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 B3=12.028	B2=8.582	1974WWa (78170)	3211
Cd++	gl	NaN03	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 1968YT a (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; (HOOCH₂)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; (HOOCH₂)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;									
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									
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 Schiffs base;									
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;									
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;									
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
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Cd++	gl	R4N.X	25°C	0.10M	C		K1=9.12	2004BBe (79117)	3242
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Medium: 0.1 M Me4NO3

C11H17N08S H3L CAS 91649-51-3 (8438)

N,N,S-Tris(carboxymethyl)methionine;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KCl	25°C	0.10M	C		K1=6.30	1984RFd (79172)	3243
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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
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Cd++	gl	KNO3	20°C	0.10M	U		K1=13.95	1981NSc (79246)	3244
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Cd++	gl	KNO3	20°C	0.10M	U		K1=17.79	1978NLb (79247)	3245
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Cd++	vlt	KNO3	25°C	1.00M	U			1977Hda (79248)	3246
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K1eff=13.84

Keff at pH 7

Cd++	vlt	KNO3	25°C	0.20M	U	M	K1=17.43	19650Ga (79249)	3247
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Exchange complexes with Zn

Cd++	ISE	KNO3	20°C	0.10M	U		K1=18.83	1964ICb (79250)	3248
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C11H18N2O8 H4L CAS 4408-81-5 (923)

1,3-Diaminopropane-N,N,N',N'-tetraethanoic acid; ((H00C.CH2)2N.CH2.)2.CH2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	oth	KNO3	20°C	0.10M	U		K1=13.90	1971AWa (79408)	3249
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Cd++	vlt	KNO3	25°C	0.20M	U		K1=12.69	19650Ga (79409)	3250
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Cd++	gl	KNO3	20°C	0.10M	U	H		1964ANa (79410)	3251
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K(Cd+HL)=6.5

By calorimetry: DH(K1)=-22.7 kJ mol⁻¹, DS=188 J K⁻¹ mol⁻¹

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaNO3	25°C	0.15M	C		K1=11.16 B(CdHL)=16.94 B(CdH-1L)=0.48	2003AFb (79687)	3262

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	K(Cd(NTA)+L)=2.55	1990KRd (79691)	3263

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 B(CdH2L2)=25.05	1984MWb (79727)	3266

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 B(CdHL)=12.84	2004FBa (79793)	3267

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
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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
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Cd++	gl	R4N.X	25°C	0.10M	C		K1=13.0 K(CdL=CdH-1L+H)=-9.8	1999DWa (80008)	3275
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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
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Cd++	gl	NaNO3	25°C	0.10M	U		K1=13.44	1990Hwa (80015)	3276
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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
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Cd++	gl	NaClO4	25°C	0.20M	M	H	K1=18.1 B(CdHL)=22.0	1978KKb (80028)	3277
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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
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Cd++	EMF	KNO3	20°C	0.10M	U		K1=12.84 K(CdL+Cd)=2.83 K(Cd+HL)=10.28 K(Cd+H2L)=7.3 K(CdL+H)=7.82	1971Pwa (80050)	3278
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K(CdH2L=CdHL+H)=-6.7

C11H30N6 L (6595)
5-(4'-Amino-2'-azabutane)-5-methyl-3,7-diazaanonane-1,9-diamine;
CH3.C(CH2.NH.CH2.CH2.NH2)3

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KCl	25°C	0.50M	M		K1=13.4 K(CdL+H)=8.0 K(CdHL+H)=6.3	1991HLA (80057)	3279
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C12H6O2Cl4S 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	KN03	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	KN03	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	KN03	35°C	0.10M	C	M	K1=4.96 B2= 8.77	1998LYa	(80379)3284
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B(CdLA)=12.77
B(CdHLA)=19.96

A is 3,3,9,9-tetramethyl-4,8-diazaundecane-2,10-dione dioxime.

Cd++	gl	KN03	25°C	0.10M	C	T H	K1=5.74 B2=10.55	1993Gwa	(80380)3285
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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
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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	KN03	25°C	0.10M	U		K1=5.65 B2=10.49	1983Ywa	(80382)3287
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Cd++	sp	NaClO4	25°C	0.10M	U	M	1981YJa (80383)3288	B(CdL2(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 K(Cd+HL)=3.86	1973KUb (80840)	3308

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		K(Cd+HL)=7.97 K(Cd+H2L)=2.61	1967UKa (80849)	3309

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		K(Cd+2HL)=7.38	1973GZa (80869)	3310

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: CCl4

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: CCl4

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
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Cd++	sp	NaClO4	25°C	0.50M	C		K1=0.715	1984MTa (80959)	3314
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 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
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Cd++	gl	KNO3	20°C	0.10M	U		K1=1.3	1970BAa (80990)	3315
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K(Cd+HL)=1.0

 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
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Cd++	gl	KNO3	25°C	0.10M	U		K1=4.9 B2=8.7	1956YSb (81006)	3316
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K3=3.0

 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
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Cd++	EMF	KNO3	20°C	0.10M	U		K1=6.36	1978CSa (81024)	3317
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 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
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Cd++	gl	NaNO3	25°C	0.50M	M		K1=1.35	1998KSd (81099)	3318
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 C12H12N8B HL CAS 40250-95-1 (7937)

Tetrakis(pyrazolyl)borate;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	dis	non-aq	25°C	100%	C			2001KSb (81142)	3319
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K(Cd+2HL=CdL2(org)+2H)=1.2

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-picolylamine); 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

C12H13N3O5 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-diazayclododecane-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 K(Cd+H2L)=3.87 K(Cd+HL)=9.10	1988MGa (81907)	3339

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++ gl 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)

(Butanediylidenetetraethio)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++ gl 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++ gl 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++ gl 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-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			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 B(CdHL)=17.86	1992ADa (82969)	3381

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 B(CdHL)=12.93	2004FBa (82983)	3382

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 B(CdHL)=13.02	2004FBa (82993)	3383

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	K(2CdL2=Cd2L4)=3.40 K(Cd2L4+2py)=5.95 K(CdL2+py)=4.34 K(CdL2py+py)=0.58	1971DGb (83009)	3384

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 K(CdL+H)=7.1 K(CdHL+H)=3.4 *K(CdL)=-7.2	1997BLd (83101)	3386

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
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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 1980KMc (83799)3402
K(CdL+I)=2.00

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

C₁₂H₂₆O₅ 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 1994CDa (84057)3410
K(CdLOH+H)=10.15

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 1995MWa (84098)3414
B(CdHL)=35.1
B(CdH2L)=41.2

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 1998BBb (84105)3416
B(CdHL)=13.64
B(CdH2L)=22.31
K(CdL+H)=9.4
K(CdHL+H)=8.7

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
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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
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Cd++	gl	NaNO3	25°C	0.10M	C		K1=10.90	1989HBa (84228)	3425
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 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 B(CdHL)=16.02	1989HBa (84243)	3426

 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 B(CdHL)=19.7	1978KKb (84258)	3427

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 K(Cd+HL)=11.0 K(Cd+H2L)=8.45 K(Cd+H3L)=6.71	1988MKa (84275)	3428

 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-Hexaazaoctadecane;
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
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Cd++ gl NaCl04 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
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Cd++	gl	NaCl04	25°C	0.10M	U			K1=14.4 K(Cd+HL)=10.1	1963Gcb (84445)	3437
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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
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Cd++	gl	mixed	28°C	75%	U			K1=4.00	1988Mnb (84531)	3438
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C13H9NOS HL (4945)
 2-(2'-Thienyl)-8-hydroxyquinoline; HO.C9H5N.C4H3S

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	diox/w	25°C	50%	U			K1=6.15 B2=13.18	1969CBa (84538)	3439
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Medium: 50% dioxan, 0.1 M NaCl04

C13H9NOS HL CAS 3411-95-8 (1683)
 2-(2-Hydroxyphenyl)benzothiazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	alc/w	20°C	50%	U			K1=<5.5	1959H0a (84547)	3440
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C13H9NO2 HL (3403)
 2-(2'-Hydroxyphenyl)benzoxazole;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	alc/w	20°C	50%	U			K1=7.2	1959H0a (84562)	3441
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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
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Cd++	sp	oth/un	20°C	0.05M	U			K1=9.18 B2=17.88	1967NAa (84612)	3442
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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
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Cd++	gl	KNO3	28°C	0.20M	U			K1=5.20	1977WJa (84635)	3443
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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
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Cd++	gl	diox/w	28°C	75%	U			K1=4.51	1988MNb (84672)	3444
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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
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Cd++	gl	diox/w	30°C	50%	U			K1=4.26	1982UVa (84689)	3445
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C13H10NO2Cl HL (8130)
N-(2-Chlorophenyl)benzohydroxamic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	diox/w	25°C	50%	U			K1=6.48 B2=11.36	1986ARb (84708)	3446
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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
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Cd++	gl	diox/w	30°C	50%	U			K1=9.04 B2=16.45	1994JBb (84733)	3447
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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
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Cd++	dis	KCl	25°C	0.10M	U			K1=5.15 B2=9.65 K3=3.65	1962IMa (84777)	3448
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C13H10N2 L CAS 3003-78-6 (2752)
5-Methyl-1,10-phenanthroline;

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


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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
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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-Picolinyaldehyde 2-benzothiazolyhydrazone;
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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
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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
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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
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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
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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

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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 Diphenylcarbraz. CAS 538-62-5 (1195)
Diphenylcarbrazone; 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)
Diphenylthiocarbrazone; 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 K(Cd+HL)=1.0	1970BAa (85572)	3481

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	KN03	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	NaCl04	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	KN03	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	KN03	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)
(Pentanediylylidenetetrathio)tetra-ethanoic acid; ((HOOCCCH2S)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; ((HOOCCCH2)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; (HOOCCCH2)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;
(HOOCCCH2)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	KN03	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;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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				CAS		(3414)		
N-Methyl-2,2'-iminobis(ethyliminodiethanoic acid);										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	EMF	NaNO3	20°C	0.10M	U			K1=17.44	1957SSa (86393)	3503

C13H24N2O6		H2L				CAS		(5610)		
1,11-Dioxa-4,8-diazacyclotridecane-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=11.93 K(CdL+H)=3.63 *K(CdL)=-10.98	1998CCd (86406)	3504
Medium: 0.10 M Me4NN03.										

C13H26O6		L		19-Crown-6		CAS		55471-27-7	(8943)	
1,4,7,10,13,16-Hexaoxacyclononadecane;										

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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 NaCl04 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

C14H11NO4 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

C14H11NO4 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
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Cd++	gl	diox/w	30°C	60%	U			K1=6.90	1984ORa (86991)	3527
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Data also for 4-Cl- and 4-NO2- analogues

C14H12NOBr		HL						CAS 20772-74-1	(6172)	
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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
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Cd++	gl	mixed	28°C	75%	U			K1=4.97	1988MNB (87039)	3528
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C14H12N2		L						CAS 484-11-7	(450)	
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2,9-Dimethyl-1,10-phenanthroline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++	gl	alc/w	25°C	50%	M	I M			1990BDB (87122)	3529
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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 K3=3.0	1962IMA (87123)	3530
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Cd++	gl	KNO3	25°C	0.10M	U			K1=2.8	1956YSb (87124)	3531
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C14H12N2O2		HL						(6311)		
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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
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Cd++	gl	diox/w	28°C	50%	U			K1=4.82 B2=8.93	1975JTB (87173)	3532
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C14H12N2O2		HL						(6328)		
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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
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Cd++	gl	diox/w	28°C	50%	U			K1=4.75 B2=8.26	1975JTB (87183)	3533
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C14H12N2O3		H2L						CAS 4870-46-6	(3432)	
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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
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Cd++	gl	diox/w	30°C	75%	U				1957SFB (87206)	3534
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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 Pteric 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

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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
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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
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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
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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
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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
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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
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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
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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
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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.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(CdH2L)=11.158

B(CdHL)=7.364

B(Cd2L)=3.707

C14H16N2O8 H4L CAS 3020-07-3 (1905)
1,4-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	KCl	25°C	0.10M	C		K1=3.98 B2= 8.56 B(CdH2L)=13.19 B(CdHL)=9.24 B(Cd2L2)=11.86 B(Cd2HL2)=17.17	1997GHc (88002)	3561

B(CdH3L2)=23.14, B(Cd2H2L2)=22.01, B(Cd3L3)=20.03,
B(CdHL2)=13.99, B(Cd2L)=7.38, B(CdH2L2)=18.88.

C14H16N2O8 H4L CAS 91856-15-4 (8449)
1,4-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=3.56 B(CdHL)=8.39 K(Cd+HL)=1.76	1984RFe (88009)	3562

C14H18N2O2 HL (7898)
1-(2-Hydroxyphenyl)-2,5-diaza-8-oxonona-1,5-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	0.2M	U		K1=5.21	1999MTc (88062)	3563

Medium: 0.2 M KCl in 3:7 v/v H2O/EtOH

C14H18N2O5 H2L HIDA (6633)
N-(2,6-Dimethyl-phenylcarbamoylethyl)iminodiethanoic acid;
(CH3)2C6H3.NH.CO.CH2.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=6.47 B2=10.42 B(CdH-1L)=-2.29 B(CdH-2L)=-13.44	1992GLa (88081)	3564

C14H18N4 L DPEN CAS 4608-34-3 (1850)
N,N'-Bis-(2-pyridylmethyl)-1,2-diaminoethane; (C5H4N.CH2.NH.CH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KCl	25°C	0.10M	U		K1=10.08 B2=13.79	1997Cub (88103)	3565

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 B(CdH2L2)=21.13	1992VDa (88407)	3573

 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 K(Cd+H2L)=3.33 K(Cd+HL)=9.46 B(Cd2L)=17.24 B(Cd2L2)=27.36	1988TGe (88896)	3580

*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		K(2Cd+2HL+2H=Cd2H4L2)=21.88 K(2Cd+2HL+H=Cd2H3L2)=16.57 K(2Cd+2HL=Cd2H2L2)=11.33	2000MLa (88912)	3581

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 B(CdHL)=10.03 B(CuCdH-2L)=0.46	1983DOa (88976)	3582

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; ((H00C.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;
(H00CCH2)2NCH2CH(N(CH2COOH)2CH2CH(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; (H00C.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 1968VL a (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

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
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Cd++ gl R4N.X 25°C 0.05M C K1=5.3 1997BCc (90339)3627

Medium: 0.05 M Me₄NC104

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 Me₄NCIO₄.

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
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Cd++ g1 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
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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;

$$\text{C}_6\text{H}_{10}(\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2)_2$$

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Cd++ gl NaNO3 25°C 0.10M C K1=7.61 B2=10.29 1991DCa (90596)3632

$$K(\text{CdL}+\text{OH})=3.25$$
$$B(Cd3L2) = 22.06$$

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
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Cd++ g1 R4N.X 25°C 0.10M C K1=7.70 1995LLa (90623)3633

Medium: Et4NC104

C14H30N40 L (7383)

1-(2-Hydroxycyclohexyl)-1,4,7,10-tetraazacyclododecane; H0.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

C14H30N402 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

C14H32N204 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

C14H32N2010P2 H4L CAS 81963-60-2 (7240)

1,4,10,13-Tetraoxa-7,16-diazacyclooctadecane-7,16-diylldimethylenediphosphonic 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-pentaazacycloheicosane;

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

$$B(Cd2H-2L)=-5.51$$

$$K(Cd2L(OH)=Cd2L(OH)2+H)=-9.5.$$

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 B(CdHL)=22.59 K(CdL+H)=4.49	1989BBb	(90909)3648

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 B(CdHL)=23.240 B(CdH2L)=28.48 K(Cd+HL)=13.04 K(Cd+H2L)=8.66	1991ABa	(90923)3649

$$DH(K1)=-61.9 \text{ kJ mol}^{-1}.$$

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

C15H11NO2 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

C15H11NO4 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
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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-Sulfoxyphenylazo)-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-sulfoxyphenyl)azo)-8-hydroxyquinoline-5-sulfonic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	sp	NaCl04	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 NaCl04.

Cd++	gl	alc/w	37°C	40%	C	M	K1=4.85 B2= 8.64	1997AAb (91366)	3668
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B(Cd(gly)L)=9.38
K(Cd(gly)+L)=4.25
K(CdL+gly)=4.53
B(Cd(ala)L)=9.36

Medium: 40% v/v EtOH/H2O, 0.15 M NaCl04. 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 1990DOc (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 Et4NClO4.

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

Cd++	gl	KNO3	25°C	0.10M	U	H	K1=8.58	1975APc (92180)	3694
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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	1966VL a (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++	gl	R4N.X	25°C	0.15M	C		K1=7.36 K(CdL+H)=7.29 K(CdL+OH)=3.03	2000FFa (92422)	3699

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++	gl	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++	gl	R4N.X	25°C	0.10M	C		K1=19.854 K(CdL+H)=2.70	1997CCa (92476)	3701

Medium: Me4NN03

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++	gl	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++	gl	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++	gl	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: Et4NC104

 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;

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-----
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;
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-----
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;
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-----
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;
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-----
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;
-----

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-----
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;
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-----
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
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
*****

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1-(4-Hydroxyphenylazo)-2-hydroxynaphthalene;

Cd++ gl mixed 25°C 75% U 1972Mcb (92966)3724

Medium: 75% acetone, 0.1 M KNO₃

C16H12N2O4S H2L CAS 13964-82-4 (3475)

1-(4-Sulfophenylazo)-2-hydroxynaphthalene;

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'-sulfophenylazo)-2-naphthol;

Cd++ gl oth/un 25°C 0.0 U M 1963CEa (93019)3726

$$K(\text{CdL}+\text{Gly})=3.32$$

C16H12O2 HL CAS 56461-08-6 (3453)

2-Benzoylindan-1-one;

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;

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:

Cd++ gl oth/un 30°C ? U K1=8.97 1964PCa (93180)3729

C16H13N2O11AsS2	H6L	Arsenazo I	CAS 520-10-5 (277)
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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)		
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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)		
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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
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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 K(Cd+HL)=4.34
1999MTc (93674)3749

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-thienylacetyl amino)-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	1979PJ a (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 B(CdH-1L)=-5.23	1993SHb (93939)	3753

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 K(Cd+HL)=1.2	1970BAa (93955)	3754

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
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C16H24N2O8 H4L CAS 38557-30-1 (1256)
Ethylene-bis(N,N'-(2,6-dicarboxy)piperidine); ((HOOCC2H4NCH2)2

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaN03	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 B(CdHL)=7.4	1991FGb (94488)	3765

Medium: 0.10 M Et4NN03.

C16H25N04 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		1999Mfa (94510)	3766

K(Cd(NO3)2+L)=2.00

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 Me4NN03.

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 B(CdHL)=17.1	1990AFa (94585)	3768

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 B(CdHL)=18.5	1990AFa (94599)	3769

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	KN03	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	KN03	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	KN03	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	KN03	20°C	0.10M	U	H	K1=11.99 K(Cd+HL)=7.02 K(Cd+CdL)=2.4	1964ANa (94787)	3774

By calorimetry: DH(K1)=-19.2 kJ mol⁻¹, DS=164 J K⁻¹ mol⁻¹

Cd++	EMF	NaN03	20°C	0.10M	U		K1=11.99 K(Cd+HL)=7.07	1957SSa (94788)	3775
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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
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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
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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
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Cd++	gl	KCl	25°C 0.10M C	K1=16.97 K(CdL+H)=3.56 B(Cd2L)=19.03 K(Cd(OH)L+H)=10.95	1993DSa (94970)3780
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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
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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;


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-----
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
*****
C16H34O5           L                      CAS 1986-89-6 (5700)
S,S-Dioctylsulfoxide; C8H17.5O.C8H17
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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

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Medium: acetone, Bu4NC104

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*****
C16H36N4           L                      CAS 54622-44-5 (147)
5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane;
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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
*****
C16H36N4O2         L                      (7297)
1,11-Bis(2-hydroxyethyl)-4,8-dimethyl-1,4,8,11-tetraazacyclotetradecane;
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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

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Medium: Et4NC104

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*****
C16H36N4O2         L                      (7296)
1,4-Bis(2-hydroxyethyl)-8,11-dimethyl-1,4,8,11-tetraazacyclotetradecane;
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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

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Medium: Et4Cl04

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*****
C16H36N4O4         L                      (6703)
1,4,7,10-Tetrakis(2-hydroxyethyl)-1,4,7,10-tetraazacyclododecane;
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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

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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 1969K Mb (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.CO.OH

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

C17H15N3O5 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 1981K Ta (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	1991GDb	(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	1991GDc	(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	1990DGc	(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
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Cd++	gl	NaClO4	?	0.10M	U		B2=8.80	1963DSa	(96179)3829

C17H17N3O HL (5218)
 alpha-Cyano-4-hydroxyphenacylidene-4-dimethylaminoaniline;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	sp	alc/w	30°C	100%	U			1970GSe	(96194)3830
							K(Cd+HL)=4.61		

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
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Cd++	gl	diox/w	35°C	50%	U		K1=5.3	1958YSa	(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
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Cd++	vlt	KN03	45°C	0.10M	U	T H	B2=8.10	1964ARa	(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
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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 K(CdL+H)=3.76 K(CdL+Cd)=2.55	2000CDd (96678)	3843

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 K(CdL+H)=8.6	1989HAa (96778)	3844

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 B(CdLH)=15.6 B(CdH-1L)=1.5	1997RWa (96795)	3846

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 B(CdHL)=21.7	1997WTa (96808)	3847

Medium: NEt4ClO4

C17H39N5O2 L (6706)
10,13,16-Trimethyl-1,4-dioxa-7,10,13,16,19-pentaazacycloheneicosane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	NaCl04	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	NaCl04	25°C	0.15M	C		K1=15.12 B(Cd+L+H2O=Cd(OH)L+H)=3.65 K(CdL+OH)=2.26	1996BBa (96834)	3849

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 NaCl04

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;									
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;									
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;									
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;									
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;									
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;									
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 K(CdL+H)=8.8	1965PSe (97088)	3865

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	NaCl04	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

C18H18N2O5S2 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	KN03	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

C18H20N2OS2 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 K(CdL+H)=8.19 K(CdHL+H)=6.30	1993MMa (97384)	3877
Cd++	gl	KNO3	25°C	0.10M	C		K1=18.4 K(Cd+HL)=14.6 K(Cd+H2L)=10.6 *K(CdH2L)=-7.6 *K(CdHL)=-9.7	1992GVa (97385)	3878

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	EMF	oth/un	?	?	U		K1=9.36 K(Cd+HL)=6.57 K(Cd+H2L)=4.57	1968TRc (97386)	3879

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KNO3	25°C	0.10M	U		K(CdHL+H)=7.86 K(Cd+H2L)=7.77 K(CdL+H)=8.70	1958FFa (97387)	3880

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;									
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;									
Cd++	gl	R4N.X	25°C	0.10M	C		K1=17.20 K(CdL+OH=CdL(OH))=2.72	2004BBa (97498)	3883
Medium: Me4NCl.									
Cd++	gl	R4N.X	25°C	0.10M	C		K1=17.30 K(CdL+OH)=2.72	2002BBf (97499)	3884
Medium: 0.10 M Me4NCl.									

C18H22N4O4		H2L					CAS 2444-14-6	(3502)	
N,N'-Bis(2-pyridylmethyl)diaminoethane-N,N'-diethanoic acid;									
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									
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;									
Cd++	EMF	oth/un	?	?	U		K1=19.0 K(Cd+H2L)=8.8	1975DTa (97584)	3887

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
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Cd++	gl	alc/w	25°C	95%	U		K1=7.75	1990AMa (97596)	3888
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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
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Cd++	dis	non-aq	25°C	100%	U			1997HIb (97632)	3889
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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
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Cd++	gl	NaClO4	25°C	0.15M	C		K1=6.31 K(CdL+OH)=3.84	1998PGc (97637)	3890
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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
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Cd++	gl	KNO3	25°C	0.10M	C	H	K1=17.93	1996DHa (97708)	3891
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DH(K1)=-58.5 kJ mol⁻¹

Cd++	gl	KCl	25°C	0.10M	M		K1=ca. 20	1996MBb (97709)	3892
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Cd++	gl	KCl	25°C	0.20M	C		K1=17.2	1992RMa (97710)	3893
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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
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Cd++	gl	R4N.X	25°C	0.10M	C		K1=14.56 K(CdL+H)=3.84	1997CDb (97781)	3894
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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 B(CdHL)=2.70	1984ABc (97790)	3895

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		(OE0AcAcOE)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			1988HPa (97991)	3900
							K(Cd+HL)=16.76		
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	KNO ₃	25°C	0.10M	C			K1=18.02 B(CdHL)=22.06 B(CdH ₂ L)=24.5 B(Cd ₂ L)=20.95 B(Cd ₂ HL)=24.81	1992CDd (98173)	3907

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 K(CdL+H)=6.06 B(Cd ₂ L)=14.83 K(Cd ₂ L+H)=5.81	1993DSa (98294)	3911

$$K(\text{Cd}(\text{OH})\text{L}+\text{H})=10.87$$

C18H34N202 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

C18H34N208 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
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C18H36N206 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
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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
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Medium: MeOH, 0.05 M Et4NClO4

Cd++	EMF	R4N.X	25°C	0.05M	C	I		K1=7.1	1979BLb (98502)	3918
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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
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Cd++	gl	R4N.X	25°C	0.10M	C	H		K1=6.8	1975ANa (98504)	3920
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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
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C18H38N206 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

Cd++ g/l NaNO3 25°C 0.10M C K1=3.93 1991DHa (98833)3923

C18H38N2O6 L (5802)
7,16-Di(2-hydroxypropyl)-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane;

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;

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

C18H40N4O4 L CAS 89066-60-2 (867)
N,N',N'',N'''-Tetrakis(2-hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane;

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;

Cd++ g1 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

Cd++ gl KN03 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
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$K(\text{CdH}_2\text{L}+\text{H}_2\text{L})=4.43$
 $K(\text{Cd}+2\text{H}_2\text{L}=\text{Cd}(\text{H}_2\text{L})(\text{HL})+\text{H})=2.71$
 $K(\text{Cd}+2\text{HL})=13.64$, $K(\text{Cd}+2\text{HL}=\text{Cd}(\text{HL})\text{L}+\text{H})=3.24$, $K(2\text{Cd}+\text{HL}=\text{Cd}_2\text{L}+\text{H})=4.95$,
 $K(\text{Cd}_2\text{L}+\text{OH})=5.80$, $K(\text{Cd}_2\text{L}(\text{OH})+\text{OH})=4.61$.

 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

 $K(\text{CdL}+\text{ala})=4.58$

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 Et4NC104.

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	NaCl04	25°C	0.15M	C			K1=5.56 B2= 9.87 B3=16.63	1989EGa (99279)	3943

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
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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 Et4NC104.

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 Et4NC104.

 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 K(Cd+HL)=3.8	1978LMa (99486)	3948

 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 K(Cd+HL)=7.5 B(CdH-1L)=-5.0	1995TDa (99513)	3950

 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 K(CdL+H)=5.56	1994ABa (99524)	3951

 C20H13N3O7S H3L Eriochrome B1 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;									
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);									
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									
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									
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;									
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
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Cd++	gl	diox/w	30°C	75%	U		B2=11.66 K(Cd+HL)=3.60 K(Cd+2HL)=7.14 K(Cd+L+HL)=9.81	1985RSb	(99827)3961
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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
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Cd++	gl	diox/w	25°C	75%	U T H		K1=3.41	2001SSd	(99864)3962
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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
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Cd++	gl	diox/w	25°C	75%	U T H		K1=3.43 B2= 5.67	2001SSd	(99871)3963
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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
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Cd++	gl	diox/w	25°C	75%	U T H		K1=3.77	2001SSd	(99881)3964
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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
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Cd++	sp	non-aq	25°C	100%	C	M		2002YPc	(99945)3965
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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]-phenanthrolinephane;

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
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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

$$K(\text{CdL}+\text{OH})=3.70$$

C20H30N6 L (7250)
3,7,15,19,25,26-Hexaazatricyclo[19.3.1.1]hexacosa-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]heptacosa-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 K(CdL+H)=8.38 K(CdHL+H)=6.77 K(CdH2L+H)=5.30 K(CdH3L+H)=4.09	2001ABa (100446)	3979

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]heptacosa-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 K(CdL+H)=5.22 K(CdHL+H)=4.90 K(CdH2L+H)=3.74	2002BBf (100450)	3980

Medium: 0.10 M Me4NCl.

Cd++	gl	R4N.X	25°C	0.10M	U	H	K1=15.69 K(CdL+H)=5.22 K(CdHL+H)=4.90 K(CdH2L+H)=3.74	2001ABa (100451)	3981
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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	KN03	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
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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-carboxylic 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 K(CdL+OH)=3.1 K(CdL(OH)+OH)=3.4	1994BBb (100881)	3990

Medium: 0.15 M NMe4ClO4

Cd++	gl	R4N.X	25°C	0.10M	U		K1=12.0 K(Cd+HL)=5.8	1978LMa (100882)	3991
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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 K(CdL=CdH-1L+H)=-9.7	1999DWa (100952)	3994

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	NaCl04	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	NaCl04	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.C₆H₄OH)₂

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	mixed	25°C	80%	C		K1=7.90 B(CdHL)=16.41	1997HMa (101113)	4002

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)-pyridaziny1 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	NaClO ₄	20°C	0.10M	C	M	K1=3.00 B2= 5.30 B(PbAL)=8.13 B(PbA2L)=10.57 B(PbAL2)=8.83	1983SAb (101177)	4005

Method: polarography. A is N-(2-hydroxyethyl)-1,2-diaminoethane.

Cd++	vlt	NaClO ₄	30°C	0.10M	C		K1=2.99 B2= 5.33	1980SGi (101178)	4006
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Method: polarography.

Cd++	gl	KN03	25°C	0.10M	C		K1=4.48 K(Cd+HL)=3.07	1979DDd (101179)	4007
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Also data for other tetracycline analogues.

C21H23NO6 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

C21H28N2O2 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.

C21H28N2O2 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.

C21H28N2O3 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.

C21H28N2O3 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 K(Cd+HL)=3.61	1988ADb (101350)	4015
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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 K(CdHL+H)=3.91 K(CdL+H)=7.79 K(Cd+H2L)=10.62 K(Cd+HL)=17.4	1972HUa (101730)	4018

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 B(PbAL)=8.22 B(PbA2L)=10.64 B(PbAL2)=8.98	1983SAb (101754)	4019

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

C22H24N2O9 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-phenanthrolineophane;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	R4N.X	25°C	0.10M	C		K1=15.89 K(CdL+H)=5.60 K(CdHL+H)=5.16 K(CdH2L+H)=2.91	2002BBF (102197)	4036

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 K(CdL+H)=8.27 K(CdL+OH)=2.73	1998PGC (102222)	4037

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 B(CdH-1L)=0.35	1985NSC (102232)	4038

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 K(CdL+H)=5.76 K(CdL+OH)=3.17	1998PGC (102256)	4039

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

Data for binary mixtures of DMF with MeOH, nitromethane, PrOH, AN.

Cd++ EMF alc/w 25°C 100% C T H K1=2.66 2001SZb (102653)4051
Medium: methanol, 0.5 M Bu4NClO4. Method: Ag electrode, using competitive
complexation with Ag+. Data for 5-35 C. DH=-38.1 kJ mol-1, DS=-73

C23H25N3O2 L CAS 132097-05-3 (6407)
4,5:12,13-Dibenzo-7,10,20-triaza-3,14-dioxabicyclo[14.3.1]eicosa-1(20),16,18-triene
;

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

Cd++ gl alc/w 25°C 95% U K1=8.73 1991BFa (102697)4052
In 95% v/v MeOH/H2O, 0.1 M Et4NClO4

C23H28N2O6 H2L CAS 119673-46-0 (1922)
Dibenz[b,k]-1,13-dioxa-5,9-diazacyclopentadecane-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=8.4 1988ALb (102734)4053

C23H31N3O4 H2L (7088)
1,4,7-Trimethyl-1,7-bis(4-carboxybenzyl)-1,4,7-triazaheptane;
CH3N(CH2CH2N(CH3)CH2C6H4COOH)2

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

Cd++ gl NaCl 25°C 0.15M C H K1=4.84 1995BBc (102772)4054
B(CdHL)=12.18
B(CdH2L)=18.30
*K(Cd+L=CdLOH+H)=-3.22
K(CdL+H)=7.3
K(CdHL+H)=6.1, K(CdL+OH)=5.7. DH(K1)=-4.6 kJ mol-1, DS(K1)=77.2 J K-1 mol-1
DH(CdL+H)=-25.1 kJ mol-1, DS(CdL+H)=56.1 J K-1 mol-1

C23H32N6 L CAS 246247-12-1 (6379)
4-17-Tetradecahydro-2,23:18,20-dietheno-3H-1,4,8,12,16,19-benzohexaazacycloheptacosine;

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

Cd++ gl R4N.X 25°C 0.10M C K1=10.82 2002BBf (102792)4055
K(CdL+H)=8.65
K(CdHL+H)=7.20
K(CdH2L+H)=6.07

Medium: 0.10 M Me4NCl.

C23H33N3O2 L OenN(CH3)3dienH CAS 85735-80-4 (5940)
1,12,15-Triaza-3,4:9,10-dibenzo-1,12,15-trimethyl-5,8-dioxacycloheptadecan-3,9-dien

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;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=4.68	1988ADb (102806)	4057
K(Cd+HL)=1.91										
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;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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-ethanedia mine;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	NaCl	25°C	0.15M	C			K1=8.36	2001PGa (102823)	4059
K(CdL+H)=9.98										
K(Cd+HL)=8.07										
K(CdHL+H)=5.48										

C23H34N4		L						(6385)		
5,6:14,15-Dibenzo-1,4,8,12-tetraaza-7,13-diethylcyclopentadecan-5,14-diene;										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U			K1=4.0	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										
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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 B(CdHL)=20.71 K(Cd+L+H2O=CdLOH+H)=6.41 K(CdL+H)=6.5 K(CdL+OH)=5.9	1993BBa (102849)	4064

C24H23NO7S H3L (1980)
3-(N-Carboxymethyl)aminomethyl-o-cresolsulfonephthalein;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KN03	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	KN03	25°C	0.10M	C		K1=5.71 K(CdL+H)=6.95 *K(CdL)=-9.93	2004CCb (102987)	4066

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
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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 B(CdHL)=9.0	1991FGb (103305)	4074

Medium: 0.10 M Et4NN03.

C24H42N6O12 H6L (6546)
1,4,7,10,13,16-Hexaazacyclooctadecane-N,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 K(CdL+OH)=5.29	1991DCa (103452)	4076

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 B(CdHL)=15.43	1985NSb (103478)	4077

C24H51OP L CAS 78-50-2 (4162)
Trioctylphosphine 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 K(CdA2+2L)=8.51	1990UKa (103539)	4078

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 B3=5.54	1975LHa (103672)	4082

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 Et4NClO4.									

C25H38N6		L					CAS 255039-57-7	(8591)	
N-(9-Anthacenylmethyl)-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 K(CdA2+L)=5.68 1990UKa (103908)4093
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

Medium: 95% MeOH/H₂O, 0.10 M F+4NH₄ClO₄

Medium: 0.10 M KClO₄. By calorimetry, $\Delta H(K1) = -40.18 \text{ kJ mol}^{-1}$.

123 456789

$$K(\text{CdL}_{1/2}) = 4.1$$

P(CdH) = 21.8

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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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-azacyclonon
 adecane3,5diene

 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-benzoxazin-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.

$K(\text{Cd}+2\text{HL}(\text{org})=\text{CdL}_2(\text{org})+2\text{H})=-10.85$. 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]dotriacontane-1,12,14,16,27

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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Cd++	gl	KCl	25°C	0.10M	C		K ₁ =12.44	2002KMb (104960)	4123
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$K(\text{CdL}+\text{H})=11.03$

$K(\text{CdHL}+\text{H})=10.02$

$K(\text{CdH}_2\text{L}+\text{H})=6.95$

$K(\text{CdH}_3\text{L}+\text{H})=7.06$

$K(\text{CdL}+\text{Cd})=9.54$, $K(\text{Cd}_2\text{L}+\text{H})=8.02$, $K(\text{Cd}_2\text{HL}+\text{H})=7.03$, $K(\text{Cd}+\text{H}_2\text{L})=10.94$,

$K(\text{Cd}+\text{HL})=11.77$.

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
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Cd++	gl	NaClO ₄	25°C	0.10M	C	M	K ₁ =10.12	1999BBa (104974)	4124
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$K(\text{CdL}+\text{H})=8.49$

$K(\text{CdHL}+\text{H})=5.89$

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
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Cd++	gl	NaCl	25°C	0.15M	C		K ₁ =12.58	2004ADa (105004)	4125
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$K(\text{Cd}+\text{HL})=11.16$

$K(\text{CdHL}+\text{H})=8.37$

$K(\text{CdL}+\text{Cd})=11.91$

$K(\text{Cd}_2\text{L}+\text{OH})=2.8$

$K(\text{CdL}+\text{H})=9.15$.

Cd++	gl	alc/w	25°C	95%	U		K ₁ =8.4	2004PFa (105005)	4126
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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
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Cd++	gl	R ₄ N.X	25°C	0.10M	C		K ₁ =10.6	1998DDa (105065)	4127
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$K(\text{Cd}+\text{H}_3\text{L})=3.2$

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-thiacycloeicosan-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-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=<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-dioxacycloeicosan-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-pentaoxa14azacyclodocosan3,5diene

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 Et₄NC₁₀4.

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

C31H32N2O13S H6L Xylenol orange CAS 63721-85-5 (432)
5,5'-Bis-N,N-bis(carboxymethyl)aminomethyl-4'-hydroxy-3,3'-dimethylfuchstone-2"-sulfonic acid;

C31H34N4O2 L (6979)
3,4:9,10-Dibenzo-1,12-diaza-1,12-di(pyridylmethyl)-5,8-dioxacyclopentadeca-3,9-diene;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	alc/w	25°C	95%	U		K1=7.8	1994ALb (105521)	4143
Medium: 95% MeOH/H2O, 0.01 NEt4ClO4. Data for homologous macrocycles									

C31H37N7			L				CAS 259259-40-0	(537)	
3,7,11-Tris(2-pyridylmethyl)-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17)-triene;									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
Cd++	gl	KN03	25°C	0.10M	C		K1=16.55	1999CDa (105536)	4144
							K(CdL+H)=1.96		
							K(Cd(OH)L+H)=11.40		

C32H32N2O12 H6L Cresolphthalexo CAS 2411-89-4 (1997)
o-Cresolphthalein-3,3'-bis(methyliminodiethanoic acid)

*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;

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;

Medium: 0.10 M Me₄NCl.

C3H36N2O2 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]dioxadiazacyclopentadeci

C33H36N4O6	L	Bilirubin	CAS 635-65-4 (2623)
Bilirubin			

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]tetratetracontapentadecane;

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 B(CdHL)=16.41	2001LIa (105943)	4152

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 B(CdHL)=15.84 B(CdH-1L)=3.54	2001LIa (105950)	4153

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 K(Cd+HL)=6.94 K(CdL+H)=7.94	2000BBf (105961)	4154

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
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Cd++	sol	none	25°C	0.0	C			K1=3.04	2001BCe (106251)	4160
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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
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Cd++	sp	non-aq	25°C	100%	U			K1=6.5	1996AAd (106315)	4161
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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
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Cd++	gl	alc/w	25°C	95%	U			K1=9.8	2002FGa (106326)	4162
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Medium: 95% MeOH/H2O, 0.10 M Et4NClO4.

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
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Cd++	gl	KN03	25°C	0.10M	C			K1=18.24	2000RKa (106386)	4163
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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
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Cd++	sp	non-aq	25°C	100%	U			K1=4.81 B2=7.79	1994MKa (106451)	4164
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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
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Cd++	gl	alc/w	25°C	100%	M	H		K1=6.7 B2=11.1	1994MPc (106487)	4165
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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
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K	values	Reference	ExptNo
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Medium: 20% EtOH/H₂O, 0.1 M N(Et)₄ClO₄.

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

C40H50N2O010 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 K(CdL+H)=8.05	2001BFa (106901)	4174

C42H38N4O4S2 L CAS 114407-61-3 (8533)
N,N'-[1,2-Ethanediybis[nitrilo(phenylmethylidene)-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; -----									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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; -----									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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; -----									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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; -----									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo
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; -----									
Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg K values	Reference	ExptNo

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-triaza cyclononane;

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			1997TIa (107466)	4189

K(Cd+HL=CdL+H)=-2.19
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			1996ADc (107537)	4190

K(Cd+HL)=4.05
K(Cd+H+HL)=14.50
K(Cd+HL=CdH-1L+2H)=-7.01

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-Butyldihomooxacalix[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, $K(\text{Cu})/K(\text{Cd})=39$

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

$K(\text{Cd}+\text{HxL}=\text{CdHyL}+(\text{x}-\text{y})\text{H})=10.8$

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 1978BPb (108174)4202

Beff(Cd2L)=9.8

Beff(Cd3L)=14.0

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

$K(\text{carboxyl})=1.76$

By dialysis: $K(\text{carboxyl})=1.96$. 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	2000MMa (108320)	4212

Ligand: cross-linked polyacrylic acid, Aquakeep.

Cd++	gl	NaNO3	25°C	0.10M	U			K1eff=3.1 K2eff=3.0	1999Mca (108321)	4213
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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	1991DAb (108322)	4214
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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	1968BHd (108332)	4215

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	1994DMA (108341)	4216
Cd++	vlt	KNO3	25°C	0.01M	C	I		K1eff=4.0	1991NAb (108342)	4217

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	1993KHa (108346)	4218

Method: dialysis; pH=8 [Cd]=0.00005 M

Polymer (1642)
Polymethacrylic acid;

Metal	Mtd	Medium	Temp	Conc	Cal	Flags	Lg	K values	Reference	ExptNo
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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 1993KMa (108389)4225
Keff(Cd+L)=8.70

Data also for ...HisGlnArgThrCysThrGly andCysGlnArgThrCysThrGly

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

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EXPLANATORY NOTES

DATA Flags are :-

T Data at other TEMPERATURES
 I Data with various BACKGROUNDS
 H Data for THERMOCHEMICAL quantities
 M Data for TERNARY Complexes

EVALUATION Flags are :-

T or IUP=T signifies EVALUATION RATING = Tentative by IUPAC
 R or IUP=R signifies EVALUATION RATING = Recommended by IUPAC

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